

ENCIT 2018 - Overall Event Schedule

	Sunday 25	Monday 26	Tuesday 27	Wednesday 28
08:00		Opening Cerimony		
08:15		Keynote 01	Keynote 03	Keynote 05
09:15		Technical Sessions 01	Technical Sessions 04	Technical Sessions 07
10:45		Coffe-break	Coffe-break	Coffe-break
11:10		Technical Sessions 02	Technical Sessions 05	Technical Sessions 08
12:40		Lunch	Lunch	Lunch
14:00		Keynote 02	Keynote 04	Keynote 06
15:00		Technical Sessions 03	Technical Sessions 06	Closing cerimony and ABCM awards announcement
16:30		Coffe-break	Coffe-break	
16:50	Registration	Poster Session 01	Poster Session 02	
18:20	Registration	ABCM Comittee- Meetings	ABCM-Embraer Prize and ABCM Plenary	
19:00	Registration	Conference Dinner	ABCM Plenary	
21:30	Cocktail			

Keynote 1:	Prof. Sergey Alekseenko	Vortex reconnection in the swirl flow
Keynote 2:	Prof. Matteo Bucci	Advanced diagnostics to resolve long-standing controversies in boiling heat transfer
Keynote 3:	Prof. Moran Bercovici	Flow control and configurable microsturctures using non-uniform electroosmosis
Keynote 4:	Prof. Christian Johann Losso Hermes	Frost formation in refrigerating appliances: fundamentals and applications
Keynote 5:	Prof. Jerzy Maciel Floryan	On the structured convection
Keynote 6:	Prof. Luís Fernando Figueira da Silva	Combustion research perspective at PUC-Rio

ENCIT 2018: SESSIONS SCHEDULE

Time slots		ROOM Esmeralda (700)			ROOM Turmalina (180)			ROOM Topázio (120)			ROOM Ametista (120)			ROOM Safira (120)			ROOM Turquesa (120)																				
Start	End	Monday 26	Tuesday 27	Wednesday 28	Monday 26	Tuesday 27	Wednesday 28	Monday 26	Tuesday 27	Wednesday 28	Monday 26	Tuesday 27	Wednesday 28	Monday 26	Tuesday 27	Wednesday 28	Monday 26	Tuesday 27	Wednesday 28																		
08:00	08:15	Opening Cerimony																																			
08:15	09:15	Keynote 1		Keynote 3	Keynote 5																																
09:15	09:30	Fluid Mechanics and Aerospace	421	Fluid Mechanics and Aerospace	153	Fluid Mechanics and Aerospace	426	Fluid Mechanics and Aerospace	759	Fluid Mechanics and Aerospace	218	Fluid Mechanics and Aerospace	41	Numerical heat transfer (cond)	20	Num. Heat Transfer (Conv & Heat Exch)	76	Refrigeration (refrigerator)	306	Heat Mass Transf F. & App Heat Transf	132	Heat Mass Transf F. & App Heat Transf	36	Nano & Microfluidics	394	Thermodynamics	150	Thermodynamics Thermoeconomics	163	Nuclear Eng	228	Biofuels & Bioenergy	15	Combustion Pirolyses	327	Combustion Chemical Kinetics	5
09:30	09:45		229		202		825		281		776		187		412		505		497		483		178		319		658		268		410		458				
09:45	10:00		671		630		29		139		46		655		57		343		525		231		207		489		381		199		593		414		143		
10:00	10:15		677		428		669		177		414		761		90		189		459		834		464		546		401		237		601		675		277		
10:15	10:30		814		533		602		159		432		682		431		279		491		75		467		571		369		257		675		291				
10:30	10:45		500		318		214		116		138		473		586		96		450		123		559		578		685		25		25		99				
10:45	11:10		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.		Coffee B.
11:10	11:25	Fluid Mechanics and Aerospace	647	Fluid Mechanics and Aerospace	646	Fluid Mechanics and Aerospace	596	Fluid Mechanics and Aerospace	424	Fluid Mechanics and Aerospace	17	Fluid Mechanics and Aerospace	270	Numerical heat transfer (cond)	667	Num. Heat Transfer (Conv & Heat Exch)	523	Refrigeration (HVAC)	167	Heat Mass Transf F. & App Heat Transf	591	Heat Mass Transf F. & App Heat Transf	537	Fluid Mechanics and Aerospace	45	Thermodynamics	615	Thermodynamics Thermoeconomics	111	Bioengineering	307	Biofuels & Bioenergy	271	Combustion	19	Combustion Environmental	513
11:25	11:40		6		66		430		196		788		18		757		565		642		832		519		144		833		365		541		288				
11:40	11:55		499		11		826		26		290		115		763		713		648		65		576		309		437		665		618						
11:55	12:10		624		684		478		181		357		175		266		175		723		85		654		724		535		656		618						
12:10	12:25		650		468		688		148		509		234		440		234		729		392		455		701		470		579		712						
12:25	12:40		562		12		168		511		609		50		600		609		816		651		563		580		451		274		725						
12:40	14:00		Lunch		Lunch		Lunch		Lunch		Lunch		Lunch		Lunch		Lunch		Lunch		Lunch		Lunch		Lunch		Lunch		Lunch		Lunch		Lunch		Lunch		
14:00	15:00	Keynote 2		Keynote 4	Keynote 6																																
15:00	15:15	Fluid Mechanics and Aerospace	39	Fluid Mechanics and Aerospace	452	ABCM-Embraer Prize		Fluid Mechanics and Aerospace	2	Fluid Mechanics and Aerospace	35	Fluid Mechanics and Aerospace		Numerical heat transfer (rad)	24	Refrigeration (Heat Pump)	30			Heat Mass Transf F. & App Heat Transf	386	Heat Mass Transf F. & App Heat Transf	117			Thermodynamics (Heat Pump, Comp)	92	Thermodynamics Miscellaneous	447			Biofuels & Bioenergy	566	Combustion	286		
15:15	15:30		820		734		56		337		43		462		162		220		517		575		298														
15:30	15:45		697		487		547		454		49		508		518		328		520		638		331														
15:45	16:00		233		64		463		485		68		534		259		544		530		786		380														
16:00	16:15		439		87		480		532		61		84		445		716		625		686		398														
16:15	16:30		80		448		71		696		831		543		165		347		635		823		415														
16:30	16:50		Coffee B.		Coffee B.				Coffee B.		Coffee B.				Coffee B.		Coffee B.				Coffee B.		Coffee B.				Coffee B.		Coffee B.				Coffee B.		Coffee B.		
16:50	18:20	Poster session (ROOM Pentágono)	Poster session (ROOM Pentágono)		Poster session (ROOM Pentágono)	Poster session (ROOM Pentágono)		Poster session (ROOM Pentágono)	Poster session (ROOM Pentágono)		Poster session (ROOM Pentágono)	Poster session (ROOM Pentágono)		Poster session (ROOM Pentágono)	Poster session (ROOM Pentágono)		Poster session (ROOM Pentágono)	Poster session (ROOM Pentágono)																			
18:20	19:00	ABCM Comittee-Meetings	ABCM-Embraer Prize and ABCM Plenary																																		
19:00	21:00	Dinner (Hotel Rest)	ABCM Plenary		Dinner (Hotel Rest)			Dinner (Hotel Rest)				Dinner (Hotel Rest)					Dinner (Hotel Rest)																				

POSTER SESSIONS (Pentágono Room)

Authors are invited to present their posters on either Monday or Tuesday, or both days

ENCIT 2018: Keynotes Schedule (Esmeralda Room)

Invited Speaker	Instituion	Title	Date	Hour
Prof. Sergey Alekseenko	Novosibirsk State University	Vortex reconnection in the swirl flow	26	08:15
Prof. Matteo Bucci	Massachusetts Institute of Technology	Advanced diagnostics to resolve long-standing controversies in boiling heat transfer.	26	14:00
Prof. Moran Bercovici	Israel Institute of Technology	Flow control and configurable microsturctures using non-uniform electroosmosis	27	08:15
Prof. Christian Johann Losso Hermes	POLO - UFSC	Frost formation in refrigerating appliances: fundamentals and applications	27	14:00
Prof. Jerzy Maciel Floryan	University of Western Ontario	On the structured convection	28	08:15
Prof. Luís Fernando Figueira da Silva	PUC Rio	Combustion research perspective at PUC-Rio	28	14:00

Papers Codes/Title/Area/Author

Author Name	Paper ID	Title	Area	Subarea	Type
Abdul Orlando Cárdenas Gómez	608	EFFECT OF SURFACTANTS IN THERMAL CONDUCTIVITY AND VISCOSITY OF WATER- ETHYLENE GLYCOL BASED MWCNT NANOFLUIDS	Nano and Microfluidic and Micro-Systems	Micro and Nanofluidics	poster
Abdul Orlando Cárdenas Gómez	609	MATHEMATICAL MODEL AND CFD SIMULATION OF A DOUBLE TUBE HEAT EXCHANGER	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Ademilton Luiz Rodrigues de Souza	485	PARAMETER ESTIMATION IN A SIMULATION OF TWO-DIMENSIONAL SEDIMENT TRANSPORT USING INTEGRAL TRANSFORM AND BAYESIAN INFERENCE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Admilson Franco	533	Effects of solubility on kick detection and pressure transmission	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Admilson Franco	669	A Numerical Method for High Resolution Simulations of Solid-liquid Flows Using DEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Admilson Franco	680	NUMERICAL EVALUATION OF MENTER'S SST-CC MODEL FOR AN ANNULAR-SECTOR DUCT ROTATING IN PARALLEL MODE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Admilson Franco	787	COMPUTATIONAL FLUID DYNAMICS AND HEAT TRANSFER IN ROTATING PDC DRILL BIT UNDER DIRECT AND REVERSE CIRCULATION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Adonis Menezes	563	CHARACTERISTICS OF THE USE OF CO2 IN CASCADE REFRIGERATION SYSTEMS AND FOR POWER GENERATION IN BRAYTON CYCLES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Adriana Teixeira	290	RHEOLOGICAL STUDY OF GAS HYDRATE FORMATION; EFFECTS CAUSED BY THE ADDITION OF GAS CONDENSATE TO THE WATER-IN-OIL EMULSIONS.	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Adriane Prisco Petry	124	A report on the implementation of new spectral models for radiative heat transfer calculations in the software Fire Dynamics Simulator	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Adriano Sitônio Rumão	611	ANALYSIS OF THE INFLUENCE OF A GAS RESERVOIR (LUNG) INTRODUCED INTO A BIOMASS GASIFIER	Aerospace Engineering	Propulsion	poster
Adriano Takata	825	Numerical study of the influence of spanwise wavelength on the evolution of Görtler vortices for unsteady disturbances	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Adyllyson Nascimento	139	Performance of Finite Volume Discretization Schemes for the Convective-Diffusive Linear Transport Equation. Part I: Low Eigenvalue-Peclet Ratios.	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Adyllyson Nascimento	159	Performance of Finite Volume Discretization Schemes for the Convective-Diffusive Linear Transport Equation. Part II: High Eigenvalue-Peclet Ratios.	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Airton David Filho	596	Experimental analysis of the start-up flow of viscous and viscoplastic fluids in pipelines	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Alam Trovó	15	PELLETIZED BIOMASS FROM MUNICIPAL SOLID WASTES FOR USE AS SOLID FUEL	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Alan Kardek Rêgo Segundo	470	DEVELOPMENT OF A MONITORING SYSTEM APPLIED TO A DIESEL GENERATOR WITH ELECTROLYSIS GAS INJECTION FOR REDUCING FUEL CONSUMPTION	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Alan Lugarini de Souza	787	COMPUTATIONAL FLUID DYNAMICS AND HEAT TRANSFER IN ROTATING PDC DRILL BIT UNDER DIRECT AND REVERSE CIRCULATION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Alberto Hernandez Neto	144	Thermoeconomic Methodology for District Cooling Systems Analysis	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	oral
Alcides Padilha	7	NUMERICAL AND EXPERIMENTAL ANALYSIS OF RADIAL FANS APPLIED IN AGRICULTURAL SPREADERS USING CFD	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Alcides Padilha	591	Numerical Analysis of a Split Air-Conditioning System Using Transient Boundary Conditions	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Alef Fernandes	74	A NEW APPROACH TO OPTIMIZE THE SCRAMJET INLET DESIGN APPLYING THE TOTAL PRESSURE RECOVERY	Aerospace Engineering	Propulsion	poster
Alex Anderson Calbino da Silva	564	TECHNO-ECONOMIC ANALYSIS AND SIZING OF DISH-STIRLING POWER PLANTS.	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Alex Bimbato	688	LAGRANGIAN VORTEX METHOD WITH IMPROVED BOUNDARY CONDITIONS TO STUDY THE AERODYNAMICS OF BLUFF BODY CLOSE TO A MOVING GROUND USING LAGRANGIAN LARGE EDDY SIMULATION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Alex Roger Almeida Colmanetti	808	A NEW EMPIRICAL CORRELATION FOR FROST DENSITY PREDICTION OVER FLAT PLATE	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	oral
Alex Vinicius Lopes Machado	494	TWO-PHASE FLOW IN A ROCK-FLOW CELL: COMPARISON OF VOF-ISOADVECTOR MODEL WITH EXPERIMENTS	Fluid Mechanics and Rheology	Multi-phase Flow	poster

Paper codes simp

Alexandre Morawski	571	THERMOECONOMIC OPTIMIZATION OF ABSORPTION CHILLER SUPERSTRUCTURES FOR AN INTERNAL COMBUSTION ENGINE; WASTE HEAT RECOVERY AND COLD-WATER APPLICATIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Alexandre Morawski	578	OPTIMIZATION OF THE WASTE HEAT RECOVERY SUPERSTRUCTURES FOR LARGE STATIONARY DIESEL ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Alexandre de Oliveira Mieli	239	SIMULATION OF A SHELL AND TUBE HEAT TRANSFER PROCESS WITH ANSYS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Alexandre Malavolta	90	FINITE ELEMENT MODEL FOR ANALYZING TEMPERATURE GRADIENT DURING TURNING PROCESS	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Alfredo José Alvim de Castro	685	Experimental Investigation of Critical Velocity in Fuel Element for the RMB Reactor.	Nuclear Engineering	Nuclear Engineering	oral
Ali Khosravi	166	Prediction of heat transfer coefficient during condensation of R404a in helically coiled tubes using adaptive neuro-fuzzy inference system	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Aline Bisi de Souza	102	EFFECT OF THE AGING PROCESS ON THE PERFORMANCE OF ALOE VERA AS DRAG REDUCER	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Aline Bisi de Souza	104	EFFICIENCY OF ALOE ARBORESCENS AND ALOE BARBADENSIS SPECIES AS DRAG REDUCERS	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Aline Bisi de Souza	108	Drag Reduction by Biopolymers – Influence of Okra Variety and Maturity Index on Additive Efficiency	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Aline Righi	164	COMPARISON OF DIFFERENT TECHNIQUES TO SPECIFY BOUNDARY CONDITIONS IN BODY-FITTED GRIDS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Alipio Barbosa	366	COMPARISON BETWEEN SOLAR TRACKING SYSTEMS DEVELOPED FROM MATHEMATICAL MODELS OF SOLAR GEOMETRY AND LDR SENSORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Alipio Barbosa	387	OPTIMIZATION AND EXERGETIC ANALYSIS OF A REGENERATIVE CYCLE USING BIOGAS COMBINED WITH HYDROGEN AS FUEL	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
ALISSON FIGUEIREDO	293	EXPERIMENTAL ANALYSIS OF A BIPHASIC CIRCUIT WITH PUMPING EFFECTS BY CAPILLARITY USING TWO EVAPORATORS IN PARALLEL	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
ALISSON FIGUEIREDO	294	NUMERICAL ANALYSIS OF THE DIAGRAM FOR THE OPERATION OF A BIPHASIC CIRCUIT WITH PUMPING EFFECTS BY CAPILLARITY USING TWO EVAPORATORS IN PARALLEL	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
ALISSON FIGUEIREDO	816	ANALYTICAL SOLUTION OF ONE-DIMENSIONAL TRANSIENT PENNES'BIOHEAT TRANSFER EQUATION IN CARTESIAN COORDINATES USING GREEN FUNCTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
ALISSON FIGUEIREDO	816	EXPERIMENTAL ESTIMATION OF THE LOCATION AND INTENSITY OF A HEAT SOURCE FROM SURFACE TEMPERATURES USING THE SEQUENTIAL METHOD	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Alisson Vitoriano Julio	766	BIODIESEL PRODUCTION IN SMALL SCALE	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Allan Barbosa Geoffroy Motta	487	ANALYSIS OF THE TERM OF INTERACTION BETWEEN THE FLUID AND THE POROUS MEDIUM IN MIXTURE THEORY USING A NON VISCOMETRIC IDEALIZATION OF THE POROUS MEDIUM	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Allan Giuseppe	461	STUDY OF LAMINAR FORCED CONVECTION FOR DIFFERENT CONCENTRATIONS OF THE WATER-LITHIUM BROMIDE MIXTURE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Allan Valiati	571	THERMOECONOMIC OPTIMIZATION OF ABSORPTION CHILLER SUPERSTRUCTURES FOR AN INTERNAL COMBUSTION ENGINE; WASTE HEAT RECOVERY AND COLD-WATER APPLICATIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Allison de Sá	762	ANALYSIS OF THE THERMAL PROFILE OF THE ELECTRIC ARC FURNACE OF SINOBAS S.A	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Álvaro Gardenghi	568	Numerical Modeling of a Domestic Vapor Compression Refrigeration System and Determination of Refrigerant Charge	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Amadeu Sum	491	Revisited Model for Inward and Outward Growth of Gas Hydrate Particles in Water-in-Oil Emulsions	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Amadeu Sum	511	EXPERIMENTAL STUDY OF HYDRATE FORMATION IN NON EMULSIFYING OIL SYSTEMS IN SHUT-IN AND RESTART CONDITIONS	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
Amadeu Sum	519	COLD FLOW HYDRATE MANAGEMENT METHODS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Amadeu Sum	530	EXPERIMENTAL PHASE EQUILIBRIUM OF CARBON DIOXIDE HYDRATES WITH MEG ABOVE THE UPPER QUADRUPLE POINT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Amanda Aliano	563	CHARACTERISTICS OF THE USE OF CO2 IN CASCADE REFRIGERATION SYSTEMS AND FOR POWER GENERATION IN BRAYTON CYCLES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Amanda Gonçalves de Figueiredo	40	Comparison of the Gray-Gas and Weighted-Sum-of-Gray-Gases Models in a Non-Premixed Methane-air Flame Considering the Turbulence-Radiation Interaction	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Amanda Guembaroski	635	EXPERIMENTAL PHASE EQUILIBRIUM FOR METHANE HYDRATES IN INHIBITED SYSTEMS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Amanda Guimaraes Moraes Camargo	579	COMPARATIVE STUDY OF TORREFACTION OF BRAZILIAN LIGNOCELLULOSIC BIOMASSES	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral

Paper codes simp

Amanda Raso	228	USE OF RELIABILITY BLOCK DIAGRAM AND FAULT TREE TECHNIQUES IN RELIABILITY ANALYSIS OF EMERGENCY DIESEL GENERATORS OF NUCLEAR POWER PLANTS	Nuclear Engineering	Nuclear Engineering	oral
Amanda Raso	228	USE OF RELIABILITY BLOCK DIAGRAM AND FAULT TREE TECHNIQUES IN RELIABILITY ANALYSIS OF EMERGENCY DIESEL GENERATORS OF NUCLEAR POWER PLANTS	Nuclear Engineering	Nuclear Engineering	oral
Amir Antonio Martins Oliveira	626	ANALYSIS OF THE GASIFICATION OF BIOMASS PELLETS AND INFLUENCES OF DIFFERENT COMPOSITION	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Ana Almeida	822	PERFORMANCE CONTROL AND ANALYSIS OF A PARABOLIC SOLAR CONCENTRATOR USED FOR WATER HEATING	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Ana Beatriz Valentin	435	ANALYSIS OF THE THERMAL EFFICIENCY OF A SOLAR THERMAL COLLECTOR FOR LOW-INCOME FAMILIES	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Ana Beatriz Valentin	649	THERMAL ANALYSIS OF A TUBELESS FLAT-PLATE SOLAR COLLECTOR	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Ana Cameirão	491	Revisited Model for Inward and Outward Growth of Gas Hydrate Particles in Water-in-Oil Emulsions	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Ana Carolina Medina Jimenez	237	COMPARISON BETWEEN TWO ALTERNATIVES FOR THE ENERGY USE OF VINASSE: CONCENTRATION-INCINERATION VS BIODIGESTION	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Ana Carolina Oliveira	132	Heat Transfer in Helium Coolant Channel of Dual-Functional Lithium Lead Test Blanket Module to ITER Fusion Reactor	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Ana Carolina Oliveira	259	CFD Modeling of Printed Circuit Heat Exchanger for Supercritical CO ₂ -CO ₂ and Air-Water	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Ana Carolina Oliveira de Paula	27	Numerical Study of a Cavity With and Without Radiation Including a Participating Wet Air	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Ana Karolina Bustamante	210	Construction of a Didactical Workbench for a Performance Analysis of a Heat Exchanger Contracorrent Hub	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Ana Karolyna Silva Leal	823	ADJUSTING THE WEIBULL CURVE USING NUMERICAL METHODS AND HEURISTIC METHODS AND CALCULATION OF POTENTIAL IN WIND ENERGY	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Ana Lídia Santos	764	Application of Optimization Techniques to Prediction of Parameters Wiebe Function in a Diesel Generator Set	Combustion and Environmental Engineering	Engine Combustion	poster
Ana Lídia Santos	790	PERFORMANCE ANALYSIS OF A DIESEL ENGINE OPERATING WITH TERNARY MIXTURES OF DIESEL, BIODIESEL AND ETHANOL.	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Ana Lídia Santos	795	DEVELOPMENT OF AN EXPERIMENTAL BENCH FOR THE REALIZATION OF TESTS IN DIESEL GENERATOR SETS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Ana Lívia Formiga Leite	619	Thermodynamic Analysis of a trigeneration system for a Resort	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	poster
Ana Luiza Santana	532	EXPERIMENTAL ANALYSIS OF HORIZONTAL AIR-WATER SLUG FLOW PRESSURE DROP IN CORRUGATED PIPES	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Ana Magalhaes	65	TEMPERATURE EVOLUTION INSIDE A CAPSULE CONTAINING PHASE CHANGE MATERIAL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Ana Maria Pereira Lara	462	HEAT FLUX AND THERMODYNAMIC PROPERTIES ANALYSIS AT THE STAGNATION POINT AND THE BLUNT REGION OF THE 14-X S SCRAMJET ENGINE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Ana Ost	71	ANALYSIS OF WAKE VELOCITIES AND PRESSURE FLUCTUATIONS IN A BISTABLE FLOW USING HILBERT-HUANG TRANSFORM AND WAVELETS	Flow Induced Vibration	Flow Induced Vibration	oral
Ana Raquel de Almeida Santos	686	ANALYSIS AND COMPARISON OF REAL AND IDEAL NUCLEAR POWER PLANTS (PWR) THERMAL YIELD	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Ana Raquel de Almeida Santos	829	THERMAL ANALYSIS OF TUBES TAMPONING IN CONDENSERS OF A PWR NUCLEAR POWER PLANT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Ana Silva	81	NUMERICAL ANALYSIS OF LAMINAR MIXED CONVECTION FROM A ROTATING CYLINDER IN CROSS FLOW	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Ana Silva	480	NUMERICAL SIMULATION OF THE DROPLET BREAKUP WITH PERMANENT OBSTRUCTION IN MICROFLUIDIC T-JUNCTION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Ana Silva	653	STUDY OF NATURAL CONVECTION IN HEAT SINKS USING COMSOL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Analice Costacurta Brandi	826	An Algorithm for Solving an Implicit Solution for Fully Developed Flow in a Channel of a Giesekus Fluid	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Anderson Antonio Ubices de Moraes	90	FINITE ELEMENT MODEL FOR ANALYZING TEMPERATURE GRADIENT DURING TURNING PROCESS	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Anderson Antonio Ubices de Moraes	655	NEW EMPIRICAL CORRELATIONS FOR PREDICTING THE THERMAL CONDUCTIVITY AND VISCOSITY OF NANOFLUIDS Al ₂ O ₃ /WATER	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	oral
André Aronis	347	THERMODYNAMIC MODELLING OF A POWER GENERATION STEAM ENGINE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral

Paper codes simp

André Bueno	665	A SIMPLIFIED METHOD FOR THE COMPUTATION OF THE PREMIXED MODE HEAT RELEASE IN DI DIESEL ENGINES	Combustion and Environmental Engineering	Engine Combustion	oral
Andre Carlos Contini	513	IMPLEMENTATION OF THE FLAMELET-GENERATED-MANIFOLD FOR PREMIXED LAMINAR FLAMES WITH HEAT LOSS	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Andre Chun	571	THERMOECONOMIC OPTIMIZATION OF ABSORPTION CHILLER SUPERSTRUCTURES FOR AN INTERNAL COMBUSTION ENGINE; WASTE HEAT RECOVERY AND COLD-WATER APPLICATIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Andre Chun	578	OPTIMIZATION OF THE WASTE HEAT RECOVERY SUPERSTRUCTURES FOR LARGE STATIONARY DIESEL ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Andre Damiani Rocha	452	A NUMERICAL STUDY OF THE CAPSULE-INTAKE FLOW OF A SIMPLIFIED AND SCALED ELECTRIC SUBMERSIBLE PUMP ON THE SKID (ESP-S)	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
André Ferreira	681	CFD VALIDATION OVER A CABIN-TYPE SOLAR DRYER USING ANSYS FLUENT SOFTWARE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Andre Guerrini	268	Production of electricity from biogas generated by Sapucaí ETS	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Andre Guerrini	268	Production of electricity from biogas generated by Sapucaí ETS	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Andre Juda Correa de Andrade	390	SELECTION OF HEAT EXCHANGER FOR USE IN INDUSTRIAL DRYING PROCESS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
André Leandro de Souza	199	SOLAR RAY-TRACING SIMULATION AND THERMAL ANALYSIS OF A DISH STIRLING RECEIVER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
André Leandro de Souza	199	SOLAR RAY-TRACING SIMULATION AND THERMAL ANALYSIS OF A DISH STIRLING RECEIVER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
André Luiz Salvat Moscato	353	ESTIMATE OF CONSUMPTION OF SUGARCANE BAGASSE AS A COMPLEMENT IN THE FUEL BLEND IN A BIOMASS BOILER	Combustion and Environmental Engineering	Environmental Engineering	oral
André Luiz Grando Santos	255	SIMULATION OF THREE-DIMENSIONAL FLOW OF AIR IN DUCT OF INDUSTRIAL TERM-SHRINKING TUNNEL	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
André Mendes Quintino	499	ESTIMATION OF GAS-LIQUID FLOW PATTERNS UTILIZING MACHINE LEARNING METHODS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
André Mendes Quintino	562	GAS-LIQUID FLOW-PATTERN TRANSITION IN HORIZONTAL PIPES – ANALYSIS OF REPORTED MODELS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
André Oliveira	308	PERFORMANCE ANALYSIS OF A HORIZONTAL WIND TURBINE EMPLOYING NUMERICAL SIMULATION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
André Panesi	438	EFFECTS OF BIPOLAR PLATES DESIGNS IN THE PERFORMANCE IN PEM FUEL CELLS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Andrés Mendiburu	593	PROPAGATION OF ANHYDROUS ETHANOL-AIR FLAMES WITH DISTINCT EQUIVALENCE RATIOS AT SUB-ATMOSPHERIC PRESSURE	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Andrés Paul Sarmiento	54	A computational study of the hydrodynamic developing region in single-phase minichannels	Nano and Microfluidic and Micro-Systems	Micro and Nanofluidics	oral
Andressa Azevedo	770	ENERGY AND ECONOMIC ANALYSIS OF GAS TURBINE WITH ORGANIC RANKINE CYCLE	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Andressa Lodi de Brito	559	UTILIZATION OF RESIDUAL HEAT FROM THE DISTILLATION IN THE ETHANOL PRODUCTION PROCESS TO GENERATE ELECTRICITY THROUGH AN ORGANIC RANKINE CYCLE (ORC)	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Andrey Colaço	183	DETERMINING EFFECTIVE DIFFUSION COEFFICIENT OF BANANAS DURING DRYING PROCESS USING DIFFERENTIAL EVOLUTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Andrey Colaço	234	OPTIMIZATION OF DOUBLE PIPE-HEAT EXCHANGER WITH SINGLE SEGMENTAL PERFORATED BAFFLES	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Angel Mora	480	NUMERICAL SIMULATION OF THE DROPLET BREAKUP WITH PERMANENT OBSTRUCTION IN MICROFLUIDIC T-JUNCTION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Angela Nieckele	270	NUMERICAL SIMULATION OF FLOW IN A PATIENT WITH ASCENDING AORTIC ANEURYSM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Antonia Sonia Cardoso Diniz	232	EVALUATION OF THE INFLUENCE OF SOLAR RADIATION IN THE EFFICIENCY OF FLAT PLATE COLLECTORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Antonia Sonia Cardoso Diniz	575	EXPERIMENTAL ANALYSIS OF BANANA DRYING IN AN ELECTRIC HYBRID SOLAR DRYER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
ANTONILSON CONCEIÇÃO	346	MEASUREMENT OF AIR MASS FLOW IN COMPRESSION IGNITION ENGINES	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
ANTONILSON CONCEIÇÃO	363	Analysis of the Specific Fuel Consumption of a Diesel Generator Set Influenced by the Cooling Fluid Temperature.	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
ANTONILSON CONCEIÇÃO	754	METHODOLOGIES FOR MEASURING SPECIFIC CONSUMPTION FUE IN COMPRESSION IGNITION ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Antonio Bannwart	448	EXPERIMENTAL INVESTIGATION OF PRESSURE DROP IN ELECTRICAL SUBMERSIBLE PUMP (ESP) TURNED OFF UNDER LIQUID SINGLE-PHASE AND GAS-LIQUID TWO-PHASE FLOW	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Antonio Bannwart	452	A NUMERICAL STUDY OF THE CAPSULE-INTAKE FLOW OF A SIMPLIFIED AND SCALED ELECTRIC SUBMERSIBLE PUMP ON THE SKID (ESP-S)	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Antonio Silva Filho	518	NUMERICAL ANALYSIS OF THE STEAM REFORMING OF TOLUENE TO PRODUCE HYDROGEN IN A FIXED BED CATALYTIC REACTOR	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral

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Antonio Silva Filho	537	SIMULATION OF THE AUTOTHERMAL REFORMING OF METHANE IN A FIXED BED MEMBRANE REACTOR FOR H ₂ PRODUCTION	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Antonio Alves de Moura Junior	580	MULTI-OBJECTIVE OPTIMIZATION OF ORC CYCLES OPERATION FOR WASTE HEAT RECOVERY IN STEEL-MAKING INDUSTRY.	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Antonio Brasil Junior	515	SMOKE VISUALIZATION IN HYDROKINETIC TURBINES	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	poster
Antônio Carlos de Oliveira	192	DESIGN AND ANALYSIS OF A SCRAMJET INLET AND COMBUSTION CHAMBER FOR HEAT ADDITION RATE INVESTIGAT	Aerospace Engineering	Propulsion	poster
Antonio Carlos Lopes da Costa	228	USE OF RELIABILITY BLOCK DIAGRAM AND FAULT TREE TECHNIQUES IN RELIABILITY ANALYSIS OF EMERGENCY DIESEL GENERATORS OF NUCLEAR POWER PLANTS	Nuclear Engineering	Nuclear Engineering	oral
Antonio Carlos Lopes da Costa	228	USE OF RELIABILITY BLOCK DIAGRAM AND FAULT TREE TECHNIQUES IN RELIABILITY ANALYSIS OF EMERGENCY DIESEL GENERATORS OF NUCLEAR POWER PLANTS	Nuclear Engineering	Nuclear Engineering	oral
Antonio Garrido Gallego	464	THERMODYNAMIC ANALYSIS OF THE POWER GENERATION SYSTEM OF ORGANIC RANKINE WITH THE SOLAR HEATING SYSTEM	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Antonio Garrido Gallego	476	PARAMETRIC STUDY OF GAS TURBINES OPERATION AT OFF-DESIGN CONDITIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Antônio Maia	109	EXPERIMENTAL ANALYSIS OF THE OPERATION CONTROL OF A REFRIGERATING MACHINE	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Antônio Maia	235	OPTIMAL HIGH PRESSURE CORRELATION FOR R744 DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP FOR DOMESTIC HOT WATER	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
ANTONIO MARCOS FEITOSA SILVA	5	POLLUTANTS PREDICTION IN PULSED DIFFUSE FLAME THROUGH NUMERICAL METHOD	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Antônio Silva Neto	485	PARAMETER ESTIMATION IN A SIMULATION OF TWO-DIMENSIONAL SEDIMENT TRANSPORT USING INTEGRAL TRANSFORM AND BAYESIAN INFERENCE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Antônio Silva Neto	600	ESTIMATION OF THERMAL PROPERTIES USING THE SOBOLEV SEQUENCE AND MERSENNE TWISTER WITH THE TOPOGRAPHICAL GLOBAL OPTIMIZATION	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Arcanjo Lenzi	412	EXPANSION NOISE IN HOUSEHOLD REFRIGERATORS: AN EXPERIMENTAL STUDY	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Ariane Lima	257	ANALYSIS OF THEORETICAL MODELS OF THE GLOBAL SOLAR RADIATION WITH DATA COLLECTED IN BRASÍLIA - DF	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Ariane Neale Ramos Vieira	81	NUMERICAL ANALYSIS OF LAMINAR MIXED CONVECTION FROM A ROTATING CYLINDER IN CROSS FLOW	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Ariane Silva	826	An Algorithm for Solving an Implicit Solution for Fully Developed Flow in a Channel of a Giesekus Fluid	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Aristeu Silveira Neto	713	Theoretical analyze of turbulent channel flow with thermal effects - the influence of the turbulent Prandtl number	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Armando Blanco	195	Numerical and experimental characterization of subsonic flow around a circular cylinder: wind tunnel measurement capabilities and turbulence models suitability	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Arthur Alves Rios Campos	189	NUMERICAL SIMULATIONS OF THERMOMAGNETIC CONVECTION INSIDE A THIN CAVITY	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Arthur Antunes	306	EXPERIMENTAL EVALUATION OF PERFORMANCE OF R32 AS A SUBSTITUTE FOR R410A IN COOLING SYSTEMS	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Arthur Barbosa	118	EXERGOECONOMIC ANALYSIS OF A DIESEL ENGINE	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Arthur Batista Martins Lott	615	A Review on solar organic rankine cycles technologies	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Arthur Batista Martins Lott	710	MODELING OF AN ORGANIC RANKINE CYCLE FOR LOW TEMPERATURE HEAT SOURCES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Arthur Batista Martins Lott	716	Evaluation of the Influence of Ambient Temperature on the Performance Coefficient of a Refrigeration Cycle by Single Pressure Absorption	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Arthur Delfim	457	PROPOSAL TO OPTIMIZE THE PERFORMANCE OF THE LONGITUDINAL ACCELERATION OF A VEHICLE PROTOTYPE	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster
Arthur Delfim	726	LONGITUDINAL ACCELERATION OF A VEHICLE PROTOTYPE	Combustion and Environmental Engineering	Engine Combustion	poster
Arthur Garuti dos Santos	144	Thermoeconomic Methodology for District Cooling Systems Analysis	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	oral
Arthur Pacheco Luz	615	A Review on solar organic rankine cycles technologies	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral

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Arthur Vieira da Silva Oliveira	642	DROPLET VAPORIZATION OF ETHANOL, N-HEPTANE, AND ISO-OCTANE ON HEATED SURFACES OF DIFFERENT METALS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Artur Pereira Vilas Boas	681	CFD VALIDATION OVER A CABIN-TYPE SOLAR DRYER USING ANSYS FLUENT SOFTWARE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Atila Pantaleão Silva Freire	650	EXPERIMENTAL ANALYSIS OF TURBULENT SMOOTH AND ROUGH CHANNEL FLOWS	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
Atilio Lourenço	489	A COMPREHENSIVE THERMOECONOMIC DIAGRAM BASED ON BOTH SUBSYSTEM PRODUCTIVE PURPOSES AND PHYSICAL CONNECTIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Augusto Delavald Marques	832	ENERGY PENALTY MODEL FOR FLUE GAS DESULFURIZATION SYSTEMS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Barbara Emmanuelle Sanches Silva	272	STUDY OF A HYBRID MOLTEN CARBONATE FUEL CELL AND GAS TURBINE CYCLE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Beatriz dos Santos	162	TWO-DIMENSIONAL COMPUTATIONAL SIMULATION NATURAL CONVECTION IN A CYLINDRICAL ENCLOSURE WITH AN INNER SQUARE HEAT-GENERATING BODY	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Bernardo Luiz Harry Diniz Lemos	286	BACKGROUND-ORIENTED SCHLIEREN IN A YALE BURNER	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Bernardo Luiz Harry Diniz Lemos	298	EXPERIMENTAL STUDY OF OXY-FUEL COMBUSTION IN A COFLOW BURNER	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Bernardo Oliveira Hargreaves	148	Aerodynamic optimization of high aspect ratio wings for application in unmanned aerial vehicles (UAV's)	Aerospace Engineering	Aerodynamics	oral
Björn Palm	68	ECONOMIC AND ENERGETIC ANALYSIS OF SOLAR COLLECTOR SIZE OF A DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Brener Pittner	114	HEAT EXCHANGER OPTIMIZATION OF A RANKINE CYCLE FOR NUCLEAR PROPULSION	Nuclear Engineering	Nuclear Engineering	poster
Brener Ramos	671	High Fidelity Simulation and Proper Orthogonal Decomposition of a Plunging Airfoil in Deep Dynamic Stall	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Breno Gusmão Barbosa	332	COMPARATIVE STUDY OF SIMULATED SOLAR TOWER POWER PLANT BETWEEN TWO CITIES OF BRAZIL AND THE USA.	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Brian de Lima Curtt	401	SENSIBILITY STUDY OF MOMENTUM EQUATION MODELS FOR SUBCOOLED BOILING PHENOMENA SIMULATION	Nuclear Engineering	Nuclear Engineering	oral
Bruna Dias Pires de Souza	66	COMPRESSIBILITY EFFECTS ON THE CENTRIFUGAL INSTABILITY OF LAMINAR SEPARATION BUBBLES	Aerospace Engineering	Aerodynamics	oral
Bruna Ferreira	416	OPTICAL DESIGN FOR LASER PROPULSION SYSTEM	Aerospace Engineering	Propulsion	poster
BRUNA MONISE DELFINO	521	DESIGN AND ESTIMATED DROPLET SIZE OF A TWIN-FLUID Y-JET INJECTOR FOR ATOMIZATION OF FOSSIL FUELS AND BIOFUELS BLENDS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Bruna Patricia Naidek	528	STUDY OF DIFFERENT METHODOLOGIES FOR INITIATION OF SLUG FLOW USING A LAGRANGIAN SLUG TRACKING MODEL	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Bruna Patricia Naidek	647	Experimental Analysis of Slug Flow Evolution in Horizontal Pipes	Fluid Mechanics and Rheology	Multi-phase Flow	oral
BRUNO AZEVEDO	270	NUMERICAL SIMULATION OF FLOW IN A PATIENT WITH ASCENDING AORTIC ANEURYSM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
BRUNO AZEVEDO	307	IN VITRO EXPERIMENTAL INVESTIGATION OF AORTIC VALVE TILT ANGLE ON HEMODYNAMIC FLOW PATTERNS	Bioengineering	Bioengineering	oral
BRUNO BRASSELOTTI	406	CFD ANALYSIS APPLIED TO WATER METERS DESIGN AND PERFORMANCE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Bruno da Silva Bunya	365	Feasibility Study of the Implementation to a Solar Photovoltaic Power Plant with Solar Trackers in Itajubá, Minas Gerais	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Bruno de Campos Salles Anselmo	729	ANALYSIS OF GEOMETRICAL PARAMETERS IN HEAT SINKS UNDER FREE CONVECTION USING DOE	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Bruno Furieri	288	AIR QUALITY IN INTERNAL ENVIRONMENTS AND ANALYSIS OF CURRENT LEGISLATION: CASE STUDY IN A EDUCATIONAL INSTITUTION	Combustion and Environmental Engineering	Environmental Engineering	oral
Bruno Furieri	618	MATHEMATICAL MODELING OF POLLUTANT DISPERSION AROUND AN ISOLATED OBSTACLE UNDER DIFFERENT ATMOSPHERIC STABILITY CONDITIONS	Combustion and Environmental Engineering	Environmental Engineering	oral
Bruno Furtado de Moura	395	LOW-COST EIT SYSTEM DESIGN BASED ON THE SOFTWARE EIDORS	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Bruno Hartmann da Silva	24	Application of the SA Optimisation Method to the Correlated WMP Radiation Model for Flames	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Bruno Pelisson Chimetta	29	Asymptotic solutions for a Carreau-Yasuda film flow driven by gravity over an inclined plane.	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	oral
Bruno Pereira	268	Production of electricity from biogas generated by Sapucaí ETS	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Bruno Pereira	268	Production of electricity from biogas generated by Sapucaí ETS	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Bruno Rodrigues	45	Transient Numerical Simulation of a Liquid-Vapor Mixture with Interphase Mass Transfer	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Bruno Silva de Lima	457	PROPOSAL TO OPTIMIZE THE PERFORMANCE OF THE LONGITUDINAL ACCELERATION OF A VEHICLE PROTOTYPE	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster

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Bruno Silva de Lima	458	ANALYSIS OF THE COMBUSTION PROCESS IN AN ENGINE ADAPTED WITH PRE-CHAMBER USING A ZERO DIMENSIONAL NUMERICAL MODEL AND A THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Bruno Silva de Lima	541	ANALYSIS OF THE COMBUSTION PROCESS IN A ADAPTED ENGINE WITH PRE-CAMERA USING AN EXPERIMENTAL MODEL AND THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Engine Combustion	oral
Bruno Silva de Lima	541	ANALYSIS OF THE COMBUSTION PROCESS IN A ADAPTED ENGINE WITH PRE-CAMERA USING AN EXPERIMENTAL MODEL AND THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Engine Combustion	oral
Bruno Silva de Lima	725	ANALYSIS OF THE COMBUSTION PROCESS IN AN ENGINE ADAPTED WITH PRE-CHAMBER USING A ZERO DIMENSIONAL NUMERICAL MODEL AND A THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Bruno Silva de Lima	726	LONGITUDINAL ACCELERATION OF A VEHICLE PROTOTYPE	Combustion and Environmental Engineering	Engine Combustion	poster
Bruno Ynumaru	788	DEVELOPMENT OF A DYNAMIC MASKING PROCEDURE FOR THE TAYLOR BUBBLE IDENTIFICATION IN THE PIV/LIF TECNHIQUE APPLICATION FOR SLUG FLOW	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Bryan Caetano	437	ANALYSIS OF THE VIABILITY OF STIRLING ENGINES OPERATING WITH BIOGAS OF BRAZILIAN LIVESTOCK	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Bryan Caetano	541	ANALYSIS OF THE COMBUSTION PROCESS IN A ADAPTED ENGINE WITH PRE-CAMERA USING AN EXPERIMENTAL MODEL AND THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Engine Combustion	oral
Bryan Caetano	541	ANALYSIS OF THE COMBUSTION PROCESS IN A ADAPTED ENGINE WITH PRE-CAMERA USING AN EXPERIMENTAL MODEL AND THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Engine Combustion	oral
Caio Augusto Garcia Ribeiro	591	Numerical Analysys of a Split Air-Conditioning System Using Transient Boundary Conditions	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Caio Jean Moraes de Lima	566	VOLUMETRIC HEAT CAPACITY ANALYSIS OF SUGARCANE BAGASSE POWDER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Caio Macedo	694	CONSTRUCTION OF A BASIC REFRIGERATION SYSTEM SIMULATOR	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Caio Passos	138	ANALYSIS OF PRESSURE DISTRIBUTION GENERATED BY WIND LOAD IN AN ORE RECOVERY	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Calisa Katuscia Lemmertz	51	A STUDY OF THE INFLUENCE OF TURBULENT INLET CONDITIONS IN A NUMERICAL SIMULATION OF A CYLINDRICAL COMBUSTION CHAMBER WITH A TURBULENT NON-PREMIXED METHANE-AIR FLAME	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Calisa Katuscia Lemmertz	75	AN ANALYSIS OF THE INFLUENCE OF THE FIRE SOURCE LOCATION ON THE HOT GAS LAYER TEMPERATURE IN A PRE-FLASHOVER COMPARTMENT FIRE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Calisa Katuscia Lemmertz	75	AN ANALYSIS OF THE INFLUENCE OF THE FIRE SOURCE LOCATION ON THE HOT GAS LAYER TEMPERATURE IN A PRE-FLASHOVER COMPARTMENT FIRE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Camilla Verbiski Andrade	528	STUDY OF DIFFERENT METHODOLOGIES FOR INITIATION OF SLUG FLOW USING A LAGRANGIAN SLUG TRACKING MODEL	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Carine Reis	467	DEVELOPMENT OF A COMPUTATIONAL MODEL FOR SIMULATION OF ORGANIC RANKINE CYCLES (ORC)	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Carla Azevedo	694	CONSTRUCTION OF A BASIC REFRIGERATION SYSTEM SIMULATOR	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Carla César Martins Cunha	571	THERMOECONOMIC OPTIMIZATION OF ABSORPTION CHILLER SUPERSTRUCTURES FOR AN INTERNAL COMBUSTION ENGINE; WASTE HEAT RECOVERY AND COLD-WATER APPLICATIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Carla César Martins Cunha	578	OPTIMIZATION OF THE WASTE HEAT RECOVERY SUPERSTRUCTURES FOR LARGE STATIONARY DIESEL ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Carla Freitas de Andrade	417	CUCKOO SEARCH ALGORITHM IN WIND ENERGY APPLICATION FOR A BRAZILIAN SITE	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Carla Freitas de Andrade	425	HARMONY SEARCH ALGORITHM APPLIED TO WIND ENERGY: DETERMINATION OF WEIBULL CURVE PARAMETERS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Carla Freitas de Andrade	733	IMPERIALIST COMPETITIVE ALGORITHM APPLIED TO WINDENERGY FOR A BRAZILIAN SITE AT PARAÍBA	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Carla Freitas de Andrade	735	DETERMINATION OF WEIBULL CURVE PARAMETERS APPLIED TO WIND ENERGY BY PARTICLE SWARM OPTIMIZATION	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Carla Freitas de Andrade	739	HEURISTIC METHODOLOGY APPLIED TO WIND ENERGY: DETERMINATION OF WEIBULL CURVE PARAMETERS BY ANT COLONY OPTIMIZATION	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Carla Freitas de Andrade	744	MIGRATORY BIRDS OPTIMIZATION APPLIED TO WIND ENERGY FOR PETROLINA, BRAZIL	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Carlisson Azevedo	694	CONSTRUCTION OF A BASIC REFRIGERATION SYSTEM SIMULATOR	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Carlos Antônio Rufino Júnior	548	Optimization Techniques for the Dosing of Fuels in Parallel Flow Regenerative Kilns	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Carlos Baccin	761	Effect of blood rheology model on hemodynamic parameters related to intracranial aneurysm rupture	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral

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Carlos Gasparetto	451	EXPERIMENTAL DETERMINATION OF PYROLYSIS GAS FLOWRATE IN A CHARCOALING KILN	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Carlos Alberto Valentim Jr.	447	Fractional calculus applied to linear thermoacoustics: A generalization of Rott's model	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Carlos Altemani	399	COMPARATIVE THERMAL PERFORMANCE OF FLAT PLATE FINS AND INLINE STRIP FINS HEAT SINKS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Carlos Antonio Santos	105	THEORETICAL ANALYSIS OF THE TEMPERATURE DYNAMICS FOR DIFFERENT CONCENTRATIONS OF THE WATER-ALCOHOL MIXTURE INSIDE A CYLINDRICAL TUBE	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Carlos Antonio Santos	125	ANALYSIS OF LAMINAR FORCED CONVECTION ASYMMETRIC OF NON-NEWTONIAN FLUID IN THE THERMAL ENTRANCE REGION OF A CHANNEL OF PARALLEL PLATES	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Carlos Antonio Santos	197	SOLUTION FOR THE CALCULATION OF THE DISTRIBUTION OF CONCENTRATION IN PROPAGATION OF CONTAMINANTS IN SANITARY LANDFILL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Carlos Antonio Santos	343	A Study of the Laminar Thermal Boundary Layer in Round Ducts Using GITT	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Carlos Antonio Santos	461	STUDY OF LAMINAR FORCED CONVECTION FOR DIFFERENT CONCENTRATIONS OF THE WATER-LITHIUM BROMIDE MIXTURE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Carlos Antonio Santos	619	Thermodynamic Analysis of a trigeneration system for a Resort	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	poster
Carlos Antonio Santos	824	ANALYSIS OF HEAT AND MASS SIMULTANEOUS TRANSFER IN AQUEOUS SOLUTION DESCENDENT FLOW IN THE VAPOUR ABSORPTION PROCESS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Carlos Antonio Santos	824	ANALYSIS OF HEAT AND MASS SIMULTANEOUS TRANSFER IN AQUEOUS SOLUTION DESCENDENT FLOW IN THE VAPOUR ABSORPTION PROCESS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Carlos Azael Alvarez	6	MORPHOLOGY OF SUBAQUEOUS BARCHAN DUNES IN TURBULENT SHEAR FLOW	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Carlos Barreira Martinez	775	LABYRINTH SEALS - A LITERATURE REVIEW	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	poster
Carlos Boabaid Neto	412	EXPANSION NOISE IN HOUSEHOLD REFRIGERATORS: AN EXPERIMENTAL STUDY	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Carlos Castilla	458	ANALYSIS OF THE COMBUSTION PROCESS IN AN ENGINE ADAPTED WITH PRE-CHAMBER USING A ZERO DIMENSIONAL NUMERICAL MODEL AND A THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Carlos Castilla	541	ANALYSIS OF THE COMBUSTION PROCESS IN A ADAPTED ENGINE WITH PRE-CAMERA USING AN EXPERIMENTAL MODEL AND THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Engine Combustion	oral
Carlos Castilla	541	ANALYSIS OF THE COMBUSTION PROCESS IN A ADAPTED ENGINE WITH PRE-CAMERA USING AN EXPERIMENTAL MODEL AND THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Engine Combustion	oral
Carlos Castilla	725	ANALYSIS OF THE COMBUSTION PROCESS IN AN ENGINE ADAPTED WITH PRE-CHAMBER USING A ZERO DIMENSIONAL NUMERICAL MODEL AND A THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Carlos Eduardo Keutenedjian Mady	520	A First Approach for an Exergy Analysis of the Human Heart With a Pathology	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Carlos Eduardo Keutenedjian Mady	583	EXERGETIC ANALYSIS OF FLAT-PLATE PHOTOVOLTAIC/THERMAL SOLAR COLLECTORS COMBINED WITH A LOW-TEMPERATURE LIBR/H2O ABSORPTION REFRIGERATION CYCLE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Carlos Eduardo Ribeiro Santa Cruz Mendoza	651	NUMERICAL EVALUATION OF THE TWO-PHASE FLOW IN A RADIAL CENTRIFUGAL PUMP	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	oral
Carlos Eduardo Silva Abreu	503	EFFECT OF FUEL MOISTURE AND AIRFLOW RATE ON COMBUSTION CHARACTERISTICS OF COCONUT SHELL IN A FIXED BED	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Carlos Eduardo Silva Abreu	504	EFFECT OF MOISTURE AND PARTICLE SIZE ON THE COMBUSTION CHARACTERISTICS OF SEWAGE SLUDGE IN A FIXED BED	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Carlos Henrique Laueremann	678	EXPERIMENTAL AND NUMERICAL INVESTIGATION OF COAL DEVOLATILIZATION IN A DTF	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster
Carlos Henrique Laueremann	712	Numerical modelling of coal combustion in drop tube furnace	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Carlos Henrique Neto da Silva	42	DESIGN OF A COOLING MACHINE OPERATING WITH CO2 IN SUBCRITICAL CYCLE	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	poster
Carlos Jose de Araujo	354	THERMAL DIFFUSIVITY IDENTIFICATION OF NICKEL-TITANIUM SMA USING A PERIODIC TEMPERATURE FIELD	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Carlos Jose de Araujo	444	DEVELOPMENT OF AN EXPERIMENTAL DEVICE FOR THERMAL DIFFUSIVITY IDENTIFICATION OF METALLIC ALLOYS USING A PERIODIC TEMPERATURE FIELD	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Carlos Lange Bassani	491	Revisited Model for Inward and Outward Growth of Gas Hydrate Particles in Water-in-Oil Emulsions	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Carlos Manuel Romero Luna	572	ENERGY ASSESSMENT OF TORREFACTION OF SUGARCANE BAGASSE	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster

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Carlos Manuel Romero Luna	579	COMPARATIVE STUDY OF TORREFACTION OF BRAZILIAN LIGNOCELLULOSIC BIOMASSES	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Carlos Manuel Romero Luna	704	STUDY OF THE REDUCTION OF THE SERPENTINITOS PARTICLE SIZE TO INCREASE THE EFFICIENCY OF THE PROCESSES OF MINERAL CARBONATION	Combustion and Environmental Engineering	Environmental Engineering	poster
Carlos Pinho	65	TEMPERATURE EVOLUTION INSIDE A CAPSULE CONTAINING PHASE CHANGE MATERIAL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Carlos Umberto da Silva Lima	53	COLD STORAGE CHAMBER DESIGN FOR FISHING BOATS IN THE REGION OF SALGADO, AMAZON	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Carlos Ventura	90	FINITE ELEMENT MODEL FOR ANALYZING TEMPERATURE GRADIENT DURING TURNING PROCESS	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Carolina Cimarelli Rodrigues	495	NUMERICAL ANALYSIS OF A LIQUID-GAS TWO-PHASE FLOW IN A DISTRIBUTION SYSTEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Carolina da Silva Bourdot Dutra	355	Computational Simulation of Turbulent Flow and Heat Transfer of Supercritical CO2 in a Micro Modular Reactor (MMR) Subchannel	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Carolina Magalhaes	422	NUMERICAL SIMULATION OF THE TWO-DIMENSIONAL INCOMPRESSIBLE FLOW AROUND ELLIPTIC CYLINDERS USING THE VORTEX METHOD	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Carolina Palma Naveira Cotta	132	Heat Transfer in Helium Coolant Channel of Dual-Functional Lithium Lead Test Blanket Module to ITER Fusion Reactor	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Carolina Palma Naveira Cotta	259	CFD Modeling of Printed Circuit Heat Exchanger for Supercritical CO2-CO2 and Air-Water	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Carolina Santana Michels	345	Eucalyptus wood drying at different temperatures and aspect ratios	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Caroline Viezel	820	Numerical Simulation of Extrudate Swell of Oldroyd-B Fluids	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Caryl Andre Barquero Schutze	25	A CASSAVA BIOREFINERY - A MASS AND ENERGY BALANCE	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Caryl Andre Barquero Schutze	451	EXPERIMENTAL DETERMINATION OF PYROLYSIS GAS FLOWRATE IN A CHARCOALING KILN	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Cássio Fernandes	124	A report on the implementation of new spectral models for radiative heat transfer calculations in the software Fire Dynamics Simulator	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Cassio Yared	182	COMPARATIVE ANALYSIS OF HEAT TRANSFER COEFICIENT APPLIED TO SPARK IGNITION COMBUSTION ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Cassius Ferreira	15	PELLETIZED BIOMASS FROM MUNICIPAL SOLID WASTES FOR USE AS SOLID FUEL	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Celina Kakitani	511	EXPERIMENTAL STUDY OF HYDRATE FORMATION IN NON EMULSIFYING OIL SYSTEMS IN SHUT-IN AND RESTART CONDITIONS	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
Celina Kakitani	635	EXPERIMENTAL PHASE EQUILIBRIUM FOR METHANE HYDRATES IN INHIBITED SYSTEMS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Celso Rosendo Bezerra Filho	354	THERMAL DIFFUSIVITY IDENTIFICATION OF NICKEL-TITANIUM SMA USING A PERIODIC TEMPERATURE FIELD	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Celso Rosendo Bezerra Filho	444	DEVELOPMENT OF AN EXPERIMENTAL DEVICE FOR THERMAL DIFFUSIVITY IDENTIFICATION OF METALLIC ALLOYS USING A PERIODIC TEMPERATURE FIELD	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Celso Eduardo Tuna	19	EVALUATION OF A COMPACT SYSTEM OF TRIGENERATION THROUGH ENERGY AND EXERGY ANALYSIS	Combustion and Environmental Engineering	Engine Combustion	oral
Celso Eduardo Tuna	28	EXPERIMENTAL DETERMINATION OF FLAMMABILITY LIMITS OF FARNESANE, JET FUEL AND MIXES AT ATMOSPHERIC PRESSURE IN AIR	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Celso Morooka	281	Vertical Connection of an Underwater Flexible Pipe in a Subsea Equipment	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Cesar Barddal	668	EXPERIMENTAL STUDY OF BOILING PHENOMENON IN THE EVAPORATOR OF A GLASS THERMOSYPHON	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
César Adolfo Rodriguez Sotomonte	580	MULTI-OBJECTIVE OPTIMIZATION OF ORC CYCLES OPERATION FOR WASTE HEAT RECOVERY IN STEEL-MAKING INDUSTRY.	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Cesar Celis	195	Numerical and experimental characterization of subsonic flow around a circular cylinder: wind tunnel measurement capabilities and turbulence models suitability	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Cesar Celis	300	COMPUTATIONAL FLUID DYNAMICS (CFD) BASED APPROACHES FOR MODELING AIRCRAFT TURBOFANS	Aerospace Engineering	Propulsion	poster
Cesar Cristaldo	455	Mixing Layer Stability Analysis With Strong Temperature Gradients	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Cesar Cristaldo	601	FERROFLUID DROPLET HEATING AND VAPORIZATION UNDER LOW MAGNETIC POWER	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Cesar Cristaldo	601	HEATING AND VAPORIZATION OF FERROFLUID DROPLET	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Cesar Deschamps	266	THERMAL ANALYSIS OF A VARIABLE CAPACITY COMPRESSOR FREQUENCY INVERTER	Energy and Thermal Sciences	Numerical Heat Transfer	oral

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Cesar Deschamps	505	A MODELICA MODEL TO SIMULATE DOMESTIC REFRIGERATION COMPRESSORS UNDER TRANSIENT CONDITIONS	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Cesar Deschamps	717	A Steady-state Model to Predict The Performance of Reciprocating Compressors in Household Refrigerators	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Cezar Otaviano Ribeiro Negrao	86	A REVIEW ON CONSTITUTIVE EQUATIONS FOR GELLED WAXY CRUDE OIL MODELING	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Cezar Otaviano Ribeiro Negrao	214	INFLUENCE OF SHEAR HISTORY ON THE RHEOLOGICAL BEHAVIOR AND CRISTAL MORPHOLOGY OF WAXY OILS	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Cezar Otaviano Ribeiro Negrao	533	Effects of solubility on kick detection and pressure transmission	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Cezar Otaviano Ribeiro Negrao	547	UNCERTAINTY ANALYSIS OF TRANSIENT PROBLEMS USING MONTE CARLO METHOD	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Cezar Otaviano Ribeiro Negrao	570	EXPERIMENTAL STUDY OF START-UP FLOWS OF GELLED WAXY OILS IN PIPELINES – A REVIEW	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Cezar Otaviano Ribeiro Negrao	596	Experimental analysis of the start-up flow of viscous and viscoplastic fluids in pipelines	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Cezar Otaviano Ribeiro Negrao	697	A New Constitutive Equation to Represent Drilling Fluids	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Christian Moura	515	SMOKE VISUALIZATION IN HYDROKINETIC TURBINES	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	poster
Christian Jeremi R. Coronado	28	EXPERIMENTAL DETERMINATION OF FLAMMABILITY LIMITS OF FARNESANE, JET FUEL AND MIXES AT ATMOSPHERIC PRESSURE IN AIR	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Christian Jeremi R. Coronado	221	WIND-SOLAR HYBRID SYSTEMS SIZING, CASE STUDY IN THE CITY OF ITAJUBÁ, MG	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Christian Jeremi R. Coronado	356	THERMOCHEMICAL EQUILIBRIUM MODELING FOR AIR GASIFICATION OF WASTE TIRES	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster
Christian Jeremi R. Coronado	558	REPOWERING ANALYSIS OF THE GARGAÚ WIND POWER PLANT	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Christian Jeremi R. Coronado	580	MULTI-OBJECTIVE OPTIMIZATION OF ORC CYCLES OPERATION FOR WASTE HEAT RECOVERY IN STEEL-MAKING INDUSTRY.	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Christian Jeremi R. Coronado	732	SOLAR PHOTOVOLTAIC ON GRID INSTALLATION: PROJECT, LEGAL ASPECTS, ACTUAL DATA AND ECONOMIC VIABILITY	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Christian Milioli	17	EFFECT OF THE MACRO-SCALE TOPOLOGY OVER THE EFFECTIVE DRAG COEFFICIENT IN DENSE GAS-SOLID FLUIDIZED FLOWS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Christian Milioli	35	EFFECT OF THE FLOW MACRO-SCALE ON THE EFFECTIVE STRESSES IN DENSE GAS-SOLID FLUIDIZED FLOWS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Christian Naaktgeboren	576	PORE-SCALE SIMULATION OF DISPLACING IMMISCIBLE FLUIDS IN A SECOND ORDER OF SIERPINSKI CARPET POROUS MEDIA USING A LATTICE-BOLTZMANN METHOD.	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Cirilo Seppi Bresolin	167	Free Cooling Potential for Data Centers in Brazil	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Cirilo Seppi Bresolin	415	EVALUATION OF THE LAMINAR BURNING VELOCITY OF A SYNGAS MIXTURE IN OXY-COMBUSTION	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Ciro Alegretti	189	NUMERICAL SIMULATIONS OF THERMOMAGNETIC CONVECTION INSIDE A THIN CAVITY	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Clara Reis Pinto	583	EXERGETIC ANALYSIS OF FLAT-PLATE PHOTOVOLTAIC/THERMAL SOLAR COLLECTORS COMBINED WITH A LOW-TEMPERATURE LIBR/H2O ABSORPTION REFRIGERATION CYCLE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Claudia Rosa do Espirito Santo Nobrega	392	Modeling and validation of solidification of pcm around a vertical bare tube	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Claudine BEGHEIN	26	EVALUATING RANS TURBULENCE MODELS TO PREDICT THE AIRFLOW IN A DUCT BEND	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Cláudio Oliveira	518	NUMERICAL ANALYSIS OF THE STEAM REFORMING OF TOLUENE TO PRODUCE HYDROGEN IN A FIXED BED CATALYTIC REACTOR	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
CLAUDIO MATHEUS SILVA LOBATO FERREIRA	645	THERMAL EFFICIENCY ANALYSIS OF A LPG WATER HEATER	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
CLAUDIO MATHEUS SILVA LOBATO FERREIRA	673	Boiling comparative analysis in metallic container and vitreous container	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
CLAUDIO MATHEUS SILVA LOBATO FERREIRA	714	FLOW MACHINE WITH EXTERNAL COMBUSTION, AIR DRAG	Combustion and Environmental Engineering	Engine Combustion	poster
CLAUDIO MATHEUS SILVA LOBATO FERREIRA	714	FLOW MACHINE WITH EXTERNAL COMBUSTION, AIR DRAG	Combustion and Environmental Engineering	Engine Combustion	poster
claudio melo	412	EXPANSION NOISE IN HOUSEHOLD REFRIGERATORS: AN EXPERIMENTAL STUDY	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Cleiton Elsner Fonseca	530	CFD ANALYSIS OF A VAPOR COMPRESSION SYSTEM USING SINGLE- AND TWO-PHASE EJECTOR AS AN EXPANDER DEVICE	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Cleiton Elsner Fonseca	696	NUMERICAL STUDY OF TEMPERATURE DEPENDENT VISCOPLASTIC FLUIDS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Cleydson Rufino	340	Economic Viability Analysis of CSP Technology in the State of Rio Grande do Norte	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster

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Clovis Maliska	337	DEVELOPMENT OF A PARTICLE TRACKING VELOCITY MEASUREMENT TECHNIQUE FOR THE STUDY OF GAS-LIQUID FLOWS WITH DIFFERENT INTERFACIAL LENGTH SCALES IN VERTICAL PIPES	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Clovis Maliska	788	DEVELOPMENT OF A DYNAMIC MASKING PROCEDURE FOR THE TAYLOR BUBBLE IDENTIFICATION IN THE PIV/LIF TECNHIQUE APPLICATION FOR SLUG FLOW	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Conrado Ermel	178	INTEGRAL PREDICTION MODEL OF PROCESS PARAMETERS AND POLLUTANT FORMATION FOR A COAL-FIRED THERMAL POWER PLANT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Cristhian Porcel Estrada	448	EXPERIMENTAL INVESTIGATION OF PRESSURE DROP IN ELECTRICAL SUBMERSIBLE PUMP (ESP) TURNED OFF UNDER LIQUID SINGLE-PHASE AND GAS-LIQUID TWO-PHASE FLOW	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Cristian Alex Hoerlle	513	IMPLEMENTATION OF THE FLAMELET-GENERATED-MANIFOLD FOR PREMIXED LAMINAR FLAMES WITH HEAT LOSS	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Cristian Mauricio Potosi Rosero	650	EXPERIMENTAL ANALYSIS OF TURBULENT SMOOTH AND ROUGH CHANNEL FLOWS	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
Cristiana Maia	3	EXPERIMENTAL EVALUATION OF A SMALL SOLAR UPDRAFT TOWER	Combustion and Environmental Engineering	Environmental Engineering	poster
Cristiana Maia	138	ANALYSIS OF PRESSURE DISTRIBUTION GENERATED BY WIND LOAD IN AN ORE RECOVERY	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Cristiana Maia	232	EVALUATION OF THE INFLUENCE OF SOLAR RADIATION IN THE EFFICIENCY OF FLAT PLATE COLLECTORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Cristiana Maia	320	NUMERICAL STUDY OF A FLOW AROUND TWO CIRCULAR CYLINDERS IN A WIND TUNNEL	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Cristiana Maia	320	NUMERICAL STUDY OF A FLOW AROUND TWO CIRCULAR CYLINDERS IN A WIND TUNNEL	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Cristiana Maia	575	EXPERIMENTAL ANALYSIS OF BANANA DRYING IN AN ELECTRIC HYBRID SOLAR DRYER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Cristiana Maia	615	A Review on solar organic rankine cycles technologies	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Cristiana Maia	710	MODELING OF AN ORGANIC RANKINE CYCLE FOR LOW TEMPERATURE HEAT SOURCES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Cristiana Maia	716	Evaluation of the Influence of Ambient Temperature on the Performance Coefficient of a Refrigeration Cycle by Single Pressure Absorption	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Cristiana Maia	765	NUMERICAL STUDY OF THE FLOW AROUND A CIRCULAR BODY INSERTED IN A WIND TUNNEL FOR LOW NUMBERS OF REYNOLDS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Cristiane Cozin	528	STUDY OF DIFFERENT METHODOLOGIES FOR INITIATION OF SLUG FLOW USING A LAGRANGIAN SLUG TRACKING MODEL	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Cristiane Cozin	647	Experimental Analysis of Slug Flow Evolution in Horizontal Pipes	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Cristiano Pansanato	603	LOW COST THERMAL PYRANOMETER USING DALLAS DS18B20 SENSOR AND ARDUINO	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Cristiano Pansanato	606	THERMAL RADIOMETER USING LM35 ANALOG SENSORS, CONNECTED TO AN ARDUINO BOARD	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Cristiano Tibiriçá	554	SIMULATION OF A SMALL SCALE ORGANIC RANKINE CYCLE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Cristiano Tibiriçá	568	Numerical Modeling of a Domestic Vapor Compression Refrigeration System and Determination of Refrigerant Charge	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Cristiano Tibiriçá	644	EXPERIMENTAL MEASUREMENT OF THE EFFECT OF HIGH FILLING RATIO ON THE PERFORMANCE OF THE PULSATING HEAT PIPE	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Cristiano Tibiriçá	808	A NEW EMPIRICAL CORRELATION FOR FROST DENSITY PREDICTION OVER FLAT PLATE	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	oral
Cristiano Vitorino da Silva	51	A STUDY OF THE INFLUENCE OF TURBULENT INLET CONDITIONS IN A NUMERICAL SIMULATION OF A CYLINDRICAL COMBUSTION CHAMBER WITH A TURBULENT NON-PREMIXED METHANE-AIR FLAME	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Crystianne Lilian Andrade	688	LAGRANGIAN VORTEX METHOD WITH IMPROVED BOUNDARY CONDITIONS TO STUDY THE AERODYNAMICS OF BLUFF BODY CLOSE TO A MOVING GROUND USING LAGRANGIAN LARGE EDDY SIMULATION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Daiane Souza	221	WIND-SOLAR HYBRID SYSTEMS SIZING, CASE STUDY IN THE CITY OF ITAJUBÁ, MG	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Daiane Zanatta	116	STUDY OF PARAMETERS OF THE MULTIGRID METHOD FOR THE SOLUTION OF 2D HEAT DIFFUSION PROBLEM USING NON-ORTHOGONAL STRUCTURED GRIDS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Dalton Bertoldi	517	WATER-ALCOHOL-HYDROCARBONS VLE AND VLLE: PREDICTION OF ALCOHOL PARTITION COEFFICIENT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Daniel Albiero	549	ECONOMIC EVALUATION OF EGS IN THE BRAZILIAN ENERGY MARKET: FOCUS ON THE NORTHEASTERN REGION.	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Daniel Florez	608	EFFECT OF SURFACTANTS IN THERMAL CONDUCTIVITY AND VISCOSITY OF WATER- ETHYLENE GLYCOL BASED MWCNT NANOFLUIDS	Nano and Microfluidic and Micro-Systems	Micro and Nanofluidics	poster

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Daniel Florez	609	MATHEMATICAL MODEL AND CFD SIMULATION OF A DOUBLE TUBE HEAT EXCHANGER	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Daniel Augusto Souza Pereira	591	DESIGN AND APPLICATION OF A DIDACTIC PLATFORM FOR HEAT TRANSFER PRACTICE CLASSES	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Daniel Borba Marchetto	394	A REVIEW ON POLYMER HEAT SINKS FOR ELECTRONIC COOLING APPLICATIONS	Nano and Microfluidic and Micro-Systems	Heat and Mass Transfer in Micro and Nano scales	oral
Daniel Braga	232	EVALUATION OF THE INFLUENCE OF SOLAR RADIATION IN THE EFFICIENCY OF FLAT PLATE COLLECTORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Daniel Carlos da Silva	665	A SIMPLIFIED METHOD FOR THE COMPUTATION OF THE PREMIXED MODE HEAT RELEASE IN DI DIESEL ENGINES	Combustion and Environmental Engineering	Engine Combustion	oral
Daniel Chalhub	84	Thermal Analysis of Heat Sinks in Solar Panels	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Daniel Chalhub	450	Modeling and Mathematical Analysis of Mass Transfer in Porous Media in Lautering Processes	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Daniel da Silva Tonon	741	Thermodynamics analysis of Internal Combustion Engines using Quasi-dimensional and Zero-dimensional models	Combustion and Environmental Engineering	Engine Combustion	poster
Daniel da Silva Tonon	742	Computational simulation of a Four-Stroke Ethanol-Fueled Internal Combustion Engine using Diesel-RK software	Combustion and Environmental Engineering	Engine Combustion	poster
Daniel Dall Onder dos Santos	306	EXPERIMENTAL EVALUATION OF PERFORMANCE OF R32 AS A SUBSTITUTE FOR R410A IN COOLING SYSTEMS	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Daniel Dall Onder dos Santos	463	NUMERICAL INVESTIGATION OF THE INFLUENCE OF THE FLOW DIMENSIONLESS PARAMETERS ON THE HEAT TRANSFER OF A VISCOPLASTIC FLUID	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Daniel Dall Onder dos Santos	724	ANALYSIS OF THE EFFECTS OF PERIODIC MAINTENANCE OF AGRICULTURAL TRACTORS THROUGH THE METHOD OF EXPERIMENTAL PLANNING	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Daniel de Sousa Lemos	253	Experimental Investigation of the Extinction Depth for a Candle Diffusion Flame under Confinement	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Daniel Dezan	452	A NUMERICAL STUDY OF THE CAPSULE-INTAKE FLOW OF A SIMPLIFIED AND SCALED ELECTRIC SUBMERSIBLE PUMP ON THE SKID (ESP-S)	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Daniel Garcia Ribeiro	265	Aerodynamic Heating Effect on Roughness, Aerodynamic Coefficients and Power Output of Aerogenerators: A Discussion	Aerospace Engineering	Aerodynamics	poster
Daniel Nogueira	591	DESIGN AND APPLICATION OF A DIDACTIC PLATFORM FOR HEAT TRANSFER PRACTICE CLASSES	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Daniel Resemini	432	LOW COST THRUST VECTORING CONTROL SYSTEM FOR A SOLID PROPELLANT ROCKET	Aerospace Engineering	Propulsion	oral
Daniel Roberto Ferreira	121	DESIGN OF TYPICAL COOLING JACKET FOR LIQUID PROPELLANT ROCKET ENGINE BY COMPUTATIONAL FLUID DYNAMICS	Aerospace Engineering	Propulsion	poster
Daniel Rodriguez	64	STABILITY ANALYSIS OF LONG INTERFACIAL WAVES IN GAS-LIQUID PIPE FLOW USING A LEVEL-SET APPROACH	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Daniel Rodriguez	66	COMPRESSIBILITY EFFECTS ON THE CENTRIFUGAL INSTABILITY OF LAMINAR SEPARATION BUBBLES	Aerospace Engineering	Aerodynamics	oral
Daniel Rodriguez	229	DOES THE INTRINSIC THREE-DIMENSIONALIZATION OF LAMINAR SEPARATION BUBBLES ENHANCE ITS AMPLIFIER CHARACTER?	Aerospace Engineering	Aerodynamics	oral
Daniel Rodriguez	233	TOWARDS A QUALITATIVE CRITERIA FOR THE ONSET OF ABSOLUTE INSTABILITY ON REVERSED-FLOW BOUNDARY-LAYER PROFILES	Aerospace Engineering	Aerodynamics	oral
Daniel Sales Santos Machado	3	EXPERIMENTAL EVALUATION OF A SMALL SOLAR UPDRAFT TOWER	Combustion and Environmental Engineering	Environmental Engineering	poster
Daniel Vitorino de Souza	271	SIMULATION OF CSP POWER PLANTS IN THE WESTERN MESOREGION OF THE STATE OF RIO GRANDE DO NORTE – BR	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Daniel Zancanella de Camargo	715	USE OF DIFFERENTIAL EQUATIONS TO MEASURE THE POWER LOSS IN SLIDING BEARINGS WITH DIFFERENT LUBRICATING OILS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Daniel Zancanella de Camargo	815	DETERMINATION OF THE DISTRIBUTION OF TEMPERATURES IN PERMANENT REGIME OF AN ELECTRONIC SYSTEM THROUGH FINITE DIFFERENCE	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Daniela Buske	277	NUMERICAL SIMULATION FOR REDUCED CHEMICAL KINETIC MECHANISM: A CASE FOR CARBON MONOXIDE AND HYDROGEN	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Daniela Buske	291	ASYMPTOTIC ANALYSIS OF METHANE REDUCED KINETIC MECHANISM	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Daniela Carolina Marques	519	COLD FLOW HYDRATE MANAGEMENT METHODS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Daniela Carolina Marques	635	EXPERIMENTAL PHASE EQUILIBRIUM FOR METHANE HYDRATES IN INHIBITED SYSTEMS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Daniela Mortari	678	EXPERIMENTAL AND NUMERICAL INVESTIGATION OF COAL DEVOLATILIZATION IN A DTF	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster

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Danielle R S Guerra	346	MEASUREMENT OF AIR MASS FLOW IN COMPRESSION IGNITION ENGINES	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Danielle R S Guerra	614	EXPERIMENTAL ANALYSIS IN A DIESEL GENERATOR SET CONSUMING FUEL B7, WITH HHO GAS INJECTION IN THE AIR OF ADMISSION	Combustion and Environmental Engineering	Engine Combustion	poster
Danielle R S Guerra	754	METHODOLOGIES FOR MEASURING SPECIFIC CONSUMPTION FUE IN COMPRESSION IGNITION ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Danielle R S Guerra	792	Simulation of a Diesel Engine Using AVL FIRE Software	Combustion and Environmental Engineering	Engine Combustion	poster
Danilo Rocha	236	EXERGY ANALYSIS OF A SUPERCRITICAL COAL-FIRED POWER PLANT AT VARIOUS LOAD CONDITIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Danilo Rocha	403	ANALYSIS OF THE IMPACT OF INCREASED EFFICIENCY OF COAL-FIRED POWER PLANTS IN CARBON DIOXIDE (CO2) EMISSIONS	Combustion and Environmental Engineering	Environmental Engineering	poster
Davi Fusão	481	THICKNESS INFLUENCE OF THE COPPER POWDER SINTERED CAPILLARY STRUCTURE IN THE THERMAL PERFORMANCE OF HEAT PIPES	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Davi Lotfi Lavor Navarro da Rocha	499	ESTIMATION OF GAS-LIQUID FLOW PATTERNS UTILIZING MACHINE LEARNING METHODS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Davi Lotfi Lavor Navarro da Rocha	562	GAS-LIQUID FLOW-PATTERN TRANSITION IN HORIZONTAL PIPES – ANALYSIS OF REPORTED MODELS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
David Marcucci	306	EXPERIMENTAL EVALUATION OF PERFORMANCE OF R32 AS A SUBSTITUTE FOR R410A IN COOLING SYSTEMS	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
David Oliveira Almeida	204	CFD SIMULATION OF A RANQUE-HILSCH VORTEX TUBE WITH 3 INLETS AND EXPERIMENTAL VALIDATION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
David Romanelli Pinto	181	CHEMICAL REACTIONS MODEL APPLIED TO SUPERSONIC COMBUSTION	Aerospace Engineering	Propulsion	oral
David Romanelli Pinto	192	DESIGN AND ANALYSIS OF A SCRAMJET INLET AND COMBUSTION CHAMBER FOR HEAT ADDITION RATE INVESTIGAT	Aerospace Engineering	Propulsion	poster
Debora Carneiro Moreira	394	A REVIEW ON POLYMER HEAT SINKS FOR ELECTRONIC COOLING APPLICATIONS	Nano and Microfluidic and Micro-Systems	Heat and Mass Transfer in Micro and Nano scales	oral
Deivid Barbosa	787	COMPUTATIONAL FLUID DYNAMICS AND HEAT TRANSFER IN ROTATING PDC DRILL BIT UNDER DIRECT AND REVERSE CIRCULATION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Delvonei Andrade	685	Experimental Investigation of Critical Velocity in Fuel Element for the RMB Reactor.	Nuclear Engineering	Nuclear Engineering	oral
Dener Silva de Almeida	38	SWIRL NUMBER INFLUENCE ON POLLUTANT EMISSIONS IN A TWO PHASE SWIRL COMBUSTOR	Aerospace Engineering	Propulsion	poster
Denis Gomes	656	On the synthesis of the transfer matrix of thermoacoustic cores from arbitrary engine performance	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
dhiego veloso	105	THEORETICAL ANALYSIS OF THE TEMPERATURE DYNAMICS FOR DIFFERENT CONCENTRATIONS OF THE WATER-ALCOHOL MIXTURE INSIDE A CYLINDRICAL TUBE	Energy and Thermal Sciences	Numerical Heat Transfer	poster
dhiego veloso	125	ANALYSIS OF LAMINAR FORCED CONVECTION ASYMMETRIC OF NON-NEWTONIAN FLUID IN THE THERMAL ENTRANCE REGION OF A CHANNEL OF PARALLEL PLATES	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
dhiego veloso	197	SOLUTION FOR THE CALCULATION OF THE DISTRIBUTION OF CONCENTRATION IN PROPAGATION OF CONTAMINANTS IN SANITARY LANDFILL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
dhiego veloso	343	A Study of the Laminar Thermal Boundary Layer in Round Ducts Using GITT	Energy and Thermal Sciences	Numerical Heat Transfer	oral
dhiego veloso	461	STUDY OF LAMINAR FORCED CONVECTION FOR DIFFERENT CONCENTRATIONS OF THE WATER-LITHIUM BROMIDE MIXTURE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
dhiego veloso	824	ANALYSIS OF HEAT AND MASS SIMULTANEOUS TRANSFER IN AQUEOUS SOLUTION DESCENDENT FLOW IN THE VAPOUR ABSORPTION PROCESS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
dhiego veloso	824	ANALYSIS OF HEAT AND MASS SIMULTANEOUS TRANSFER IN AQUEOUS SOLUTION DESCENDENT FLOW IN THE VAPOUR ABSORPTION PROCESS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Diana Caterinne Sandoval Candela	565	NUMERIC SIMULATION OF TURBULENT FLOW DEVELOPMENT IN AN ECCENTRIC CHANNEL WITH CONVECTIVE HEAT TRANSFER	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Diana Silva Siqueira	403	ANALYSIS OF THE IMPACT OF INCREASED EFFICIENCY OF COAL-FIRED POWER PLANTS IN CARBON DIOXIDE (CO2) EMISSIONS	Combustion and Environmental Engineering	Environmental Engineering	poster
Diego Corrêa	445	NUMERICAL ANALYSIS OF THE INFLUENCE OF COATINGS IN A CUTTING TOOL USING COMSOL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Diego Fernando Moro	116	STUDY OF PARAMETERS OF THE MULTIGRID METHOD FOR THE SOLUTION OF 2D HEAT DIFFUSION PROBLEM USING NON-ORTHOGONAL STRUCTURED GRIDS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Diego Izidoro	467	DEVELOPMENT OF A COMPUTATIONAL MODEL FOR SIMULATION OF ORGANIC RANKINE CYCLES (ORC)	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Diego Jhovanny Mariños Rosado	745	ENERGY SAVING IN THE STEAM SYSTEM AND CONDENSATE RECOVERY IN THE HEALTH INDUSTRY	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster

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Diego Knupp	485	PARAMETER ESTIMATION IN A SIMULATION OF TWO-DIMENSIONAL SEDIMENT TRANSPORT USING INTEGRAL TRANSFORM AND BAYESIAN INFERENCE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Diego Knupp	600	ESTIMATION OF THERMAL PROPERTIES USING THE SOBOL SEQUENCE AND MERSENNE TWISTER WITH THE TOPOGRAPHICAL GLOBAL OPTIMIZATION	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Diego Pavan	255	SIMULATION OF THREE-DIMENSIONAL FLOW OF AIR IN DUCT OF INDUSTRIAL TERM-SHRINKING TUNNEL	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Diego Rodrigues Trindade	730	Influence of wall friction factor and local loss models on the prediction of pressure drop in a steam line	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	poster
Dijane dos Santos Ferreira	456	A THEORETICAL ANALYSIS FOR PRESSURE DROP AND HEAT TRANSFER IN CORRUGATED PLATE HEAT EXCHANGERS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Dimas Jose Rua Orozco	489	A COMPREHENSIVE THERMOECONOMIC DIAGRAM BASED ON BOTH SUBSYSTEM PRODUCTIVE PURPOSES AND PHYSICAL CONNECTIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Diógenes Oliveira de Souza	668	EXPERIMENTAL STUDY OF BOILING PHENOMENON IN THE EVAPORATOR OF A GLASS THERMOSYPHON	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Diogo Andrade	214	INFLUENCE OF SHEAR HISTORY ON THE RHEOLOGICAL BEHAVIOR AND CRISTAL MORPHOLOGY OF WAXY OILS	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Diogo Andrade	570	EXPERIMENTAL STUDY OF START-UP FLOWS OF GELLED WAXY OILS IN PIPELINES – A REVIEW	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Diogo Andrade	596	Experimental analysis of the start-up flow of viscous and viscoplastic fluids in pipelines	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Diogo B. Pitz	500	Direct numerical simulation of vacillation in centrifugal convection	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Diogo B. Pitz	680	NUMERICAL EVALUATION OF MENTER'S SST-CC MODEL FOR AN ANNULAR-SECTOR DUCT ROTATING IN PARALLEL MODE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Diogo Leon Oliveira Soares	168	Advances on the Development of an Impulsive Thrust-stand for Electric Propulsion Application	Aerospace Engineering	Propulsion	oral
Diogo Zidan	575	EXPERIMENTAL ANALYSIS OF BANANA DRYING IN AN ELECTRIC HYBRID SOLAR DRYER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
DOMISLEY DUTRA SILVA	786	THERMAL ANALYSIS OF A PHOTOVOLTAIC SYSTEM WITH SOLAR TRACKING MIRRORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Douglas Mayer Rieger	175	Metaheuristics Optimization and Simulation of Shell and Tube Heat Exchangers	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Douglas Ricardo Sansão	630	EXPERIMENTAL EVALUATION OF EFFICIENCY OF GAS SEPARATION IN AN INVERTED-SHROUD GAS-LIQUID SEPARATOR IN VERTICAL POSITION	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Douglas Daniel de Carvalho	39	ANALYSIS OF MAGNETIC FLUID DISPLACEMENT IN CAPILLARIES	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Douglas de Almeida Garcia	260	EXPERIMENTAL STUDY ON VELOCITY AND WAVE PROFILES DURING AIR-WATER FLOW IN HORIZONTAL CHANNELS	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Douglas Martins Rocha	759	PRESSURE AND SHEAR STRESS ANALYSIS IN A TRIANGULAR TUBE BUNDLE BASED ON EXPERIMENTAL FLOW VELOCITY FIELD	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
Douglas Monteiro Andrade	18	A model for unsteady turbulent friction in pipe flows	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	oral
Douglas Pereira Vasconcellos	230	THERMAL PERFORMANCE AND GEOMETRIC OPTIMIZATION OF AN EARTH-PIPE-AIR HEAT EXCHANGER (EPAHE) IN DIFFERENT SOILS	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	poster
Douglas Silva	809	LOSS OF PIPELINE PRESSURE WITH SINGLE-PHASE AND BIPHASIC	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Druscilla Zaghetto	210	Construction of a Didactical Workbench for a Performance Analysis of a Heat Exchanger Contracorrent Hub	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Druscilla Zaghetto	212	STATISTICAL ANALYSIS OF THE ACCURACY OF EMPIRICAL LOSS OF LOAD EQUATION	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Dulles Araujo Gomes	463	NUMERICAL INVESTIGATION OF THE INFLUENCE OF THE FLOW DIMENSIONLESS PARAMETERS ON THE HEAT TRANSFER OF A VISCOPLASTIC FLUID	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Ederval Lisboa	776	TOPOLOGICAL OPTIMIZATION OF DISCRETIZED FLUID-STRUCTURE SYSTEMS WITH UNSTRUCTURED MESHES	Aerospace Engineering	Propulsion	oral
Edgar Ofuchi	651	NUMERICAL EVALUATION OF THE TWO-PHASE FLOW IN A RADIAL CENTRIFUGAL PUMP	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	oral
EDIOMEDSON SALES	8	FORECASTING THE LENGTH OF THE UNDEVELOPED FLOW REGION IN THE INLET OF ASYMMETRIC BIFURCATIONS I	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	poster
EDIOMEDSON SALES	9	FORECASTING THE LENGTH OF THE UNDEVELOPED FLOW REGION IN THE INLET OF ASYMMETRIC BIFURCATIONS II	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	poster
Edna Maria de Faria Viana	775	LABYRINTH SEALS - A LITERATURE REVIEW	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	poster
EDSON ALVES	126	CALIBRATION OF THERMOCOUPLE TYPE TEMPERATURE SENSORS BY COMPARISON WITH STANDARD INSTRUMENT USING LINEAR REGRESSION MATH METHOD	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
EDSON ALVES	346	MEASUREMENT OF AIR MASS FLOW IN COMPRESSION IGNITION ENGINES	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster

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EDSON ALVES	363	Analysis of the Specific Fuel Consumption of a Diesel Generator Set Influenced by the Cooling Fluid Temperature.	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Edson Bazzo	309	THERMO-ECONOMIC ANALYSIS AND ENERGY POLICY OF A HYBRID ENERGY FROM WASTE PLANT	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	oral
Edson Bazzo	546	Exergy Analysis of a Multipurpose CCHP Layout Based on Natural Gas Engines for Application in the Tertiary Sector	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Edson Lopes	645	THERMAL EFFICIENCY ANALYSIS OF A LPG WATER HEATER	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Edson Lopes	673	Boiling comparative analysis in metallic container and vitreous container	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Edson Lopes	714	FLOW MACHINE WITH EXTERNAL COMBUSTION, AIR DRAG	Combustion and Environmental Engineering	Engine Combustion	poster
Edson Lopes	714	FLOW MACHINE WITH EXTERNAL COMBUSTION, AIR DRAG	Combustion and Environmental Engineering	Engine Combustion	poster
Edson Soares	102	EFFECT OF THE AGING PROCESS ON THE PERFORMANCE OF ALOE VERA AS DRAG REDUCER	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Edson Soares	104	EFFICIENCY OF ALOE ARBORESCENS AND ALOE BARBADENSIS SPECIES AS DRAG REDUCERS	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Edson Soares	108	Drag Reduction by Biopolymers – Influence of Okra Variety and Maturity Index on Additive Efficiency	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Edson Soares	290	RHEOLOGICAL STUDY OF GAS HYDRATE FORMATION; EFFECTS CAUSED BY THE ADDITION OF GAS CONDENSATE TO THE WATER-IN-OIL EMULSIONS.	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Eduardo Matos Germer	680	NUMERICAL EVALUATION OF MENTER'S SST-CC MODEL FOR AN ANNULAR-SECTOR DUCT ROTATING IN PARALLEL MODE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Eduardo Matos Germer	787	COMPUTATIONAL FLUID DYNAMICS AND HEAT TRANSFER IN ROTATING PDC DRILL BIT UNDER DIRECT AND REVERSE CIRCULATION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Eduardo Alves Amado	167	Free Cooling Potential for Data Centers in Brazil	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Eduardo C Kami	309	THERMO-ECONOMIC ANALYSIS AND ENERGY POLICY OF A HYBRID ENERGY FROM WASTE PLANT	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	oral
Eduardo Guardia	365	Feasibility Study of the Implementation to a Solar Photovoltaic Power Plant with Solar Trackers in Itajubá, Minas Gerais	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Eduardo José Cidade Cavalcanti	111	EXERGOECONOMIC AND EXERGOENVIRONMENTAL ANALYSIS OF POWER PLANT WITH CO2 CAPTURE AND STORAGE	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	oral
Eduardo José Cidade Cavalcanti	118	EXERGOECONOMIC ANALYSIS OF A DIESEL ENGINE	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Eduardo José Cidade Cavalcanti	181	CHEMICAL REACTIONS MODEL APPLIED TO SUPERSONIC COMBUSTION	Aerospace Engineering	Propulsion	oral
Eduardo Lima	646	SIMULATION OF A PLANAR HEATED JET USING A WEIGHTED ESSENTIALLY NON-OSCILLATORY SCHEME	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Eduardo Manfredini Ferreira	213	A PROPOSE FOR AN ORGANIC RANKINE CYCLE COGENERATION SYSTEM	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Eduardo Marcelo Sakaguti	512	ANALYSIS OF A ALPHA-TYPE STIRLING ENGINE THROUGH ISOTHERMAL AND ADIABATIC MODELS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Eduardo Nunes dos Santos	494	TWO-PHASE FLOW IN A ROCK-FLOW CELL: COMPARISON OF VOF-ISOADVECTOR MODEL WITH EXPERIMENTS	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Eduardo Nunes dos Santos	668	EXPERIMENTAL STUDY OF BOILING PHENOMENON IN THE EVAPORATOR OF A GLASS THERMOSYPHON	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
EDUARDO PEIXOTO DE OLIVEIRA	293	EXPERIMENTAL ANALYSIS OF A BIPHASIC CIRCUIT WITH PUMPING EFFECTS BY CAPILLARITY USIGN TWO EVAPORATORS IN PARALLEL	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
EDUARDO PEIXOTO DE OLIVEIRA	294	NUMERICAL ANALYSIS OF THE DIAGRAM FOR THE OPERATION OF A BIPHASIC CIRCUIT WITH PUMPING EFFECTS BY CAPILLARITY USIGN TWO EVAPORATORS IN PARALLEL	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
EDUARDO PEIXOTO DE OLIVEIRA	816	ANALYTICAL SOLUTION OF ONE-DIMENSIONAL TRANSIENT PENNES'BIOHEAT TRANSFER EQUATION IN CARTESIAN COORDINATES USING GREEN FUNCTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
EDUARDO PEIXOTO DE OLIVEIRA	816	EXPERIMENTAL ESTIMATION OF THE LOCATION AND INTENSITY OF A HEAT SOURCE FROM SURFACE TEMPERATURES USING THE SEQUENTIAL METHOD	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Eduardo Villela	468	UNSTABLE TRANSVERSE ROLLS INDUCED BY VISCOUS DISSIPATION FOR A THIN FILM FLOW	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	oral
Edwin Santiago Rios Escalante	93	EVALUATION OF COMMERCIAL ORGANIC FLUIDS FOR WASTE HEAT RECOVERY	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster

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Elaine Maria Cardoso	497	BOILING HEAT TRANSFER BEHAVIOR FOR NANOCOATED SURFACES UNDER CONFINED CONDITIONS	Nano and Microfluidic and Micro-Systems	Micro and Nanofluidics	oral
Elaine Maria Cardoso	719	POROUS AND NON-POROUS MICROSTRUCTURED SURFACES FOR BOILING HEAT TRANSFER APPLICATIONS	Nano and Microfluidic and Micro-Systems	Heat and Mass Transfer in Micro and Nano scales	oral
Elaine Maria Cardoso	786	THERMAL ANALYSIS OF A PHOTOVOLTAIC SYSTEM WITH SOLAR TRACKING MIRRORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Elaine Virmond	453	REVIEW ON MARKET TRENDS AND SYNGAS USABILITY IN FUEL CELLS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Elder Silva	789	Aerodynamic analysis of a scramjet for atmospheric flight	Aerospace Engineering	Propulsion	poster
Electo Eduardo Lora	147	ENEGETIC ANALYSIS OF TROPICAL BIOMASS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Electo Eduardo Lora	199	SOLAR RAY-TRACING SIMULATION AND THERMAL ANALYSIS OF A DISH STIRLING RECEIVER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Electo Eduardo Lora	199	SOLAR RAY-TRACING SIMULATION AND THERMAL ANALYSIS OF A DISH STIRLING RECEIVER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Electo Eduardo Lora	274	THE ACOUSTIC ENHANCEMENT ANALYSES IN THE COMBUSTION PARAMETERS OF THE EUCALYPTUS FIREWOOD.	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Elena Peñaranda	608	EFFECT OF SURFACTANTS IN THERMAL CONDUCTIVITY AND VISCOSITY OF WATER- ETHYLENE GLYCOL BASED MWCNT NANOFLUIDS	Nano and Microfluidic and Micro-Systems	Micro and Nanofluidics	poster
Elena Peñaranda	609	MATHEMATICAL MODEL AND CFD SIMULATION OF A DOUBLE TUBE HEAT EXCHANGER	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Eliana Vieira Canettieri	93	EVALUATION OF COMMERCIAL ORGANIC FLUIDS FOR WASTE HEAT RECOVERY	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Elisan dos Santos Magalhães	20	PREDICTION OF LASER WELD BEAD PROFILE THROUGH AN INVERSE PROBLEM APPROACH	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Elisan dos Santos Magalhães	586	A Time Traveling Regularization Method For Three Dimensional Inverse Problems in Heat Conduction	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Elisangela Martins Leal	272	STUDY OF A HYBRID MOLTEN CARBONATE FUEL CELL AND GAS TURBINE CYCLE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Elisangela Martins Leal	470	DEVELOPMENT OF A MONITORING SYSTEM APPLIED TO A DIESEL GENERATOR WITH ELECTROLYSIS GAS INJECTION FOR REDUCING FUEL CONSUMPTION	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Elise Watzko	453	REVIEW ON MARKET TRENDS AND SYNGAS USABILITY IN FUEL CELLS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Elmer Gennaro	66	COMPRESSIBILITY EFFECTS ON THE CENTRIFUGAL INSTABILITY OF LAMINAR SEPARATION BUBBLES	Aerospace Engineering	Aerodynamics	oral
Elmer Gennaro	229	DOES THE INTRINSIC THREE-DIMENSIONALIZATION OF LAMINAR SEPARATION BUBBLES ENHANCE ITS AMPLIFIER CHARACTER?	Aerospace Engineering	Aerodynamics	oral
Elmo Pereira	833	THE USE OF INFRARED IMAGE FOR THE DETECTION OF THE THYROID	Bioengineering	Bioengineering	oral
Eloi Monteiro dos Santos	738	ANTIFOAM PERFORMANCE EVALUATION OF MEDIUM API GRAVITIES PETROLEUMS	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	poster
Elson Avallone	435	ANALYSIS OF THE THERMAL EFFICIENCY OF A SOLAR THERMAL COLLECTOR FOR LOW-INCOME FAMILIES	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Elson Avallone	603	LOW COST THERMAL PYRANOMETER USING DALLAS DS18B20 SENSOR AND ARDUINO	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Elson Avallone	606	THERMAL RADIOMETER USING LM35 ANALOG SENSORS, CONNECTED TO AN ARDUINO BOARD	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Elson Avallone	649	THERMAL ANALYSIS OF A TUBELESS FLAT-PLATE SOLAR COLLECTOR	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Elvis Falcao	115	Second Law Based Closed Brayton Cycle Regenerator Optimization	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Elvis Mayk Chaves Barbosa	232	EVALUATION OF THE INFLUENCE OF SOLAR RADIATION IN THE EFFICIENCY OF FLAT PLATE COLLECTORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Elvis Mayk Chaves Barbosa	575	EXPERIMENTAL ANALYSIS OF BANANA DRYING IN AN ELECTRIC HYBRID SOLAR DRYER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Emanuel Mendes	107	NUMERICAL ANALYSIS OF A GENERIC SCRAMJET AIR INLET	Aerospace Engineering	Propulsion	poster
Emanuel Mendes	177	THERMAL ANALYSIS OF THE GENERIC SCRAMJET FLYING AT 30 KM ALTITUDE WITH MACH NUMBER 6.8	Aerospace Engineering	Propulsion	oral
Emanuel Moutinho Cesconeto	776	TOPOLOGICAL OPTIMIZATION OF DISCRETIZED FLUID-STRUCTURE SYSTEMS WITH UNSTRUCTURED MESHES	Aerospace Engineering	Propulsion	oral
Emerson dos Anjos	518	NUMERICAL ANALYSIS OF THE STEAM REFORMING OF TOLUENE TO PRODUCE HYDROGEN IN A FIXED BED CATALYTIC REACTOR	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Emerson dos Anjos	537	SIMULATION OF THE AUTOTHERMAL REFORMING OF METHANE IN A FIXED BED MEMBRANE REACTOR FOR H2 PRODUCTION	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Emerson Hochsteiner de Vasconcelos Segundo	175	Metaheuristics Optimization and Simulation of Shell and Tube Heat Exchangers	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Emerson Jaguaribe	611	ANALISYS OF THE INFLUENCE OF A GAS RESERVOIR (LUNG) INTRODUCED INTO A BIOMASS GASIFIER	Aerospace Engineering	Propulsion	poster
Emerson Jaguaribe	613	ADAPTATION OF A DIESEL MWM ENGINE, STACIONARY, MODEL 229/4, TO WORK WITH BIOFUEL: DIESEL-NATURAL GAS	Aerospace Engineering	Propulsion	poster

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Emilio Paladino	337	DEVELOPMENT OF A PARTICLE TRACKING VELOCITY MEASUREMENT TECHNIQUE FOR THE STUDY OF GAS-LIQUID FLOWS WITH DIFFERENT INTERFACIAL LENGTH SCALES IN VERTICAL PIPES	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Emilio Paladino	788	DEVELOPMENT OF A DYNAMIC MASKING PROCEDURE FOR THE TAYLOR BUBBLE IDENTIFICATION IN THE PIV/LIF TECNHIQUE APPLICATION FOR SLUG FLOW	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Enilene Lovatte	288	AIR QUALITY IN INTERNAL ENVIRONMENTS AND ANALYSIS OF CURRENT LEGISLATION: CASE STUDY IN A EDUCATIONAL INSTITUTION	Combustion and Environmental Engineering	Environmental Engineering	oral
Enilene Lovatte	618	MATHEMATICAL MODELING OF POLLUTANT DISPERSION AROUND AN ISOLATED OBSTACLE UNDER DIFFERENT ATMOSPHERIC STABILITY CONDITIONS	Combustion and Environmental Engineering	Environmental Engineering	oral
ENIO BANDARRA FILHO	306	EXPERIMENTAL EVALUATION OF PERFORMANCE OF R32 AS A SUBSTITUTE FOR R410A IN COOLING SYSTEMS	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
ENIO BANDARRA FILHO	608	EFFECT OF SURFACTANTS IN THERMAL CONDUCTIVITY AND VISCOSITY OF WATER- ETHYLENE GLYCOL BASED MWCNT NANOFUIDS	Nano and Microfluidic and Micro-Systems	Micro and Nanofluidics	poster
ENIO BANDARRA FILHO	609	MATHEMATICAL MODEL AND CFD SIMULATION OF A DOUBLE TUBE HEAT EXCHANGER	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Eraldo Santos	694	CONSTRUCTION OF A BASIC REFRIGERATION SYSTEM SIMULATOR	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Erb Lins	582	SCALE-ADAPTATIVE SIMULATION TURBULENCE MODELING FOR A CYLINDER IN CROSS FLOW	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Erick Bernabe Zanelato	771	THERMAL PROPERTIES INVESTIGATION OF ORNAMENTAL STONE WASTE OBTAINED BY PHOTOPYROELECTRIC METHODOLOGY	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Erick de Moraes Franklin	4	Boundary Layer Transition From Smooth To Rough Walls	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Erick de Moraes Franklin	6	MORPHOLOGY OF SUBAQUEOUS BARCHAN DUNES IN TURBULENT SHEAR FLOW	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Erick de Moraes Franklin	29	Asymptotic solutions for a Carreau-Yasuda film flow driven by gravity over an inclined plane.	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	oral
Erick de Moraes Franklin	87	EXPERIMENTAL INVESTIGATION OF LIQUID-SOLID FLUIDIZED BEDS IN A NARROW TUBE	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Erick de Moraes Franklin	428	Velocity fields of grains over barchan dunes	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
Erick de Moraes Franklin	734	PATTERNS FORMED ON BI-DISPERSED SOLID-LIQUID FLUIDIZED BEDS IN NARROW TUBES	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Erlson Barbosa	822	PERFORMANCE CONTROL AND ANALYSIS OF A PARABOLIC SOLAR CONCENTRATOR USED FOR WATER HEATING	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Erlend Oddvin Straume	519	COLD FLOW HYDRATE MANAGEMENT METHODS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Ernesto Mancilla	454	EXPERIMENTAL HYDRODYNAMICS OF INTERACTING GAS BUBBLES AND OIL DROPLETS: ATTACHMENT PHENOMENA	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Ernesto Mancilla	654	EXPERIMENTAL OBSERVATIONS OF THE BEHAVIOR OF SINGLE BUBBLES RISING IN CONFINED GEOMETRIES	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Eudes Santos	360	TECHNICAL AND ECONOMIC ANALYSIS FOR COGENERATION PLANT IN BRASIL	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Eugênio Spanó Rosa	45	Transient Numerical Simulation of a Liquid-Vapor Mixture with Interphase Mass Transfer	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Euler Horta	100	Fault Detection and Diagnosis in a Refrigeration System Using Thermo-economic Methodology and Artificial Intelligence	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Euler Horta	100	Fault Detection and Diagnosis in a Refrigeration System Using Thermo-economic Methodology and Artificial Intelligence	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Evandro Cardozo da Silva	453	REVIEW ON MARKET TRENDS AND SYNGAS USABILITY IN FUEL CELLS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Everton Ribeiro	327	GASIFICATION STUDY OF EUCALYPTUS WOOD BASED ON THERMODYNAMIC CHEMICAL EQUILIBRIUM	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Eving da Silva	260	EXPERIMENTAL STUDY ON VELOCITY AND WAVE PROFILES DURING AIR-WATER FLOW IN HORIZONTAL CHANNELS	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Ewerton Augusto Sousa Nogueira	113	CHARACTERIZATION AND ANALYSIS OF THE EFFICIENCY OF A HERMETIC COMPRESSOR	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Ezio Garcia	404	NEARLY-ORTHOGONAL GRID GENERATION METHOD BASED UPON INHOMOGENOUS ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Ezio Garcia	556	Simulation of a gasoline powered four-stroke engine using the Diesel-RK software.	Combustion and Environmental Engineering	Engine Combustion	poster
Ezio Garcia	742	Computational simulation of a Four-Stroke Ethanol-Fueled Internal Combustion Engine using Diesel-RK software	Combustion and Environmental Engineering	Engine Combustion	poster
fabiane aparecida dos santos frazzoli	509	ANISOTROPIC TRANSPORT THROUGH POLYMER LAYER AND POROUS ARTERIAL WALL WITH BINDING IN DRUG-ELUTING STENTS USING THE FEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
fabiane aparecida dos santos frazzoli	509	ANISOTROPIC TRANSPORT THROUGH POLYMER LAYER AND POROUS ARTERIAL WALL WITH BINDING IN DRUG-ELUTING STENTS USING THE FEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral

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Fabiano Cordeiro Cavalcanti	482	MODELING OF THE DRYING PROCESS OF AGRICULTURAL PRODUCTS: LUIKOV'S APPROACH CONSIDERING VARIABLE PARAMETERS AND USE OF GITT	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Fábio Dias	556	Simulation of a gasoline powered four-stroke engine using the Diesel-RK software.	Combustion and Environmental Engineering	Engine Combustion	poster
Fábio Dias	742	Computational simulation of a Four-Stroke Ethanol-Fueled Internal Combustion Engine using Diesel-RK software	Combustion and Environmental Engineering	Engine Combustion	poster
Fábio Lima	105	THEORETICAL ANALYSIS OF THE TEMPERATURE DYNAMICS FOR DIFFERENT CONCENTRATIONS OF THE WATER-ALCOHOL MIXTURE INSIDE A CYLINDRICAL TUBE	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Fábio Lima	343	A Study of the Laminar Thermal Boundary Layer in Round Ducts Using GITT	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Fábio Lima	461	STUDY OF LAMINAR FORCED CONVECTION FOR DIFFERENT CONCENTRATIONS OF THE WATER-LITHIUM BROMIDE MIXTURE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Fábio Roberto Vieira	579	COMPARATIVE STUDY OF TORREFACTION OF BRAZILIAN LIGNOCELLULOSIC BIOMASSES	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Fábio Rodrigues Silva	133	COMBINED CYCLE THERMO-ECONOMIC MODELING WITH INLET AIR COOLING	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Fábio Schneider	494	TWO-PHASE FLOW IN A ROCK-FLOW CELL: COMPARISON OF VOF-ISOADVECTOR MODEL WITH EXPERIMENTS	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Fabio Toshio Kanizawa	161	Modelling and analysis of closed loop two-phase thermosyphon	Fluid Mechanics and Rheology	Multi-phase Flow	poster
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Fabio Toshio Kanizawa	759	PRESSURE AND SHEAR STRESS ANALYSIS IN A TRIANGULAR TUBE BUNDLE BASED ON EXPERIMENTAL FLOW VELOCITY FIELD	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
Fabrcio Pena	800	Numerical Analysis of a Cylindrical Heat Source for a Novel Oil Well Abandonment Technique	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Fátima Lino	85	HEAT TRANSFER WITH PHASE CHANGE AROUND FINNED TUBE SUBMERSED IN PCM	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Fátima Lino	156	RECOVERY OF ENERGY AND WATER FROM SOLID WASTE AND DOMESTIC SEWAGE: STUDY CASE IN SÃO LUÍS - BRAZIL	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Fátima Lino	429	Aerodynamic assessment of Göttingen airfoil for application in small horizontal axis windmills	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Fausto Arinos Barbuto	528	STUDY OF DIFFERENT METHODOLOGIES FOR INITIATION OF SLUG FLOW USING A LAGRANGIAN SLUG TRACKING MODEL	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Fausto Arinos Barbuto	647	Experimental Analysis of Slug Flow Evolution in Horizontal Pipes	Fluid Mechanics and Rheology	Multi-phase Flow	oral
FELICIO BARROS	763	Steady State Heat Conduction Modeling by the Generalized Finite Element Method	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Felipe Porto Ribeiro	165	CFD SIMULATION OF SUBCOOLED FLOW BOILING IN A COOLANT SUBCHANNEL OF A PWR	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Felipe Porto Ribeiro	312	CFD SIMULATION OF A NATURAL CONVECTION FLOW IN A ENCLOSURE CAVITY WITHIN A HEATED BODY	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Felipe Porto Ribeiro	355	Computational Simulation of Turbulent Flow and Heat Transfer of Supercritical CO2 in a Micro Modular Reactor (MMR) Subchannel	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Felipe Augusto Santos da Silva	279	Thermal-Hydraulic Evaluation of the Augmentation of Heat Transfer in a Solar Water Heater Through Longitudinal Vortex Generator	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Felipe Augusto Ferreira Gomes	625	NUMERICAL SIMULATION OF UNSTEADY FLOW IN ENGINE INTAKE AND EXHAUST MANIFOLDS USING THE METHOD OF CHARACTERISTICS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Felipe Augusto Ferreira Gomes	665	A SIMPLIFIED METHOD FOR THE COMPUTATION OF THE PREMIXED MODE HEAT RELEASE IN DI DIESEL ENGINES	Combustion and Environmental Engineering	Engine Combustion	oral
Felipe Augusto Silva	440	Optimization of the control parameters of a vehicle's electric fan activated by PWM	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Felipe Bastos de Freitas Rachid	18	A model for unsteady turbulent friction in pipe flows	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	oral
Felipe Bastos de Freitas Rachid	196	MODELINIG OF GAS RELEASE AND ABSORPTION IN LIQUID WITHIN A CONSISTENT THERMODYNAMIC FRAMEWORK WITH EXPERIMENTAL VALIDATION	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Felipe Boragina da silva	435	ANALYSIS OF THE THERMAL EFFICIENCY OF A SOLAR THERMAL COLLECTOR FOR LOW-INCOME FAMILIES	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Felipe Boragina da silva	649	THERMAL ANALYSIS OF A TUBELESS FLAT-PLATE SOLAR COLLECTOR	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Felipe Cesar Jacomel	517	WATER-ALCOHOL-HYDROCARBONS VLE AND VLLE: PREDICTION OF ALCOHOL PARTITION COEFFICIENT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Felipe da Costa	177	THERMAL ANALYSIS OF THE GENERIC SCRAMJET FLYING AT 30 KM ALTITUDE WITH MACH NUMBER 6.8	Aerospace Engineering	Propulsion	oral
Felipe da Costa	181	CHEMICAL REACTIONS MODEL APPLIED TO SUPERSONIC COMBUSTION	Aerospace Engineering	Propulsion	oral

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Felipe da Costa	186	PRELIMINARY THERMAL PROTECTION SYSTEM FOR THE 14-X S SCRAMJET TECHNOLOGICAL DEMONSTRATOR FOR ATMOSPHERIC FLIGHT AT 30 KM ALTITUDE AND SPEED CORRESPONDING TO MACH NUMBER 7	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Felipe da Costa	192	DESIGN AND ANALYSIS OF A SCRAMJET INLET AND COMBUSTION CHAMBER FOR HEAT ADDITION RATE INVESTIGAT	Aerospace Engineering	Propulsion	poster
Felipe da Costa	416	OPTICAL DESIGN FOR LASER PROPULSION SYSTEM	Aerospace Engineering	Propulsion	poster
Felipe Eduardo Ribeiro	558	REPOWERING ANALYSIS OF THE GARGAÚ WIND POWER PLANT	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Felipe Ferreira Gomes	417	CUCKOO SEARCH ALGORITHM IN WIND ENERGY APPLICATION FOR A BRAZILIAN SITE	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Felipe Ferreira Gomes	425	HARMONY SEARCH ALGORITHM APPLIED TO WIND ENERGY: DETERMINATION OF WEIBULL CURVE PARAMETERS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Felipe Ferreira Gomes	733	IMPERIALIST COMPETITIVE ALGORITHM APPLIED TO WINDENERGY FOR A BRAZILIAN SITE AT PARAÍBA	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Felipe Ferreira Gomes	735	DETERMINATION OF WEIBULL CURVE PARAMETERS APPLIED TO WIND ENERGY BY PARTICLE SWARM OPTIMIZATION	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Felipe Ferreira Gomes	739	HEURISTIC METHODOLOGY APPLIED TO WIND ENERGY: DETERMINATION OF WEIBULL CURVE PARAMETERS BY ANT COLONY OPTIMIZATION	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Felipe Ferreira Gomes	744	MIGRATORY BIRDS OPTIMIZATION APPLIED TO WIND ENERGY FOR PETROLINA, BRAZIL	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Felipe Guahyba dos Reis	63	NUMERICAL ANALYSIS OF COOLING OF ELECTRONIC COMPONENTS BY HEATSINKS WITH MICROCHANNELS	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Felipe Malheiros	341	VIABILITY STUDY OF HELIOTHERMIC ENERGY GENERATION WITH PARABOLIC TROUGH CONCENTRATOR TECHNOLOGY AND THERMAL STORAGE SYSTEM FOR THE IFES CAMPUS SÃO MATEUS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Felipe Pinheiro Maia	388	ANALYSIS OF HEAT TRANSFER IN AN ACADEMIC ROCKET ENGINE USING NUMERICAL METHODS	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Felipe Pinheiro Maia	810	ANALYSIS OF A SOLAR PARABOLIC DISH STIRLING ENGINE USING BRAZILIAN NORTHEAST SOLARIMETRIC DATA	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Felipe Ramos Coelho	123	Evaluation of the WSGG model accuracy as a function of path length in non-isothermal, non-homogeneous media	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Felipe Ribeiro	713	Theoretical analyze of turbulent channel flow with thermal effects - the influence of the turbulent Prandtl number	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Felipe Roman Centeno	40	Comparison of the Gray-Gas and Weighted-Sum-of-Gray-Gases Models in a Non-Premixed Methane-air Flame Considering the Turbulence-Radiation Interaction	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Felipe Roman Centeno	51	A STUDY OF THE INFLUENCE OF TURBULENT INLET CONDITIONS IN A NUMERICAL SIMULATION OF A CYLINDRICAL COMBUSTION CHAMBER WITH A TURBULENT NON-PREMIXED METHANE-AIR FLAME	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Felipe Roman Centeno	75	AN ANALYSIS OF THE INFLUENCE OF THE FIRE SOURCE LOCATION ON THE HOT GAS LAYER TEMPERATURE IN A PRE-FLASHOVER COMPARTMENT FIRE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Felipe Roman Centeno	75	AN ANALYSIS OF THE INFLUENCE OF THE FIRE SOURCE LOCATION ON THE HOT GAS LAYER TEMPERATURE IN A PRE-FLASHOVER COMPARTMENT FIRE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Felipe Roman Centeno	124	A report on the implementation of new spectral models for radiative heat transfer calculations in the software Fire Dynamics Simulator	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Felipe Roman Centeno	410	EVALUATION OF FLAME LENGTH IN MULTI-JET NON-PREMIXED NATURAL GAS FLAMES DILUTED WITH CO2	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Felipe Silva dos Santos	85	HEAT TRANSFER WITH PHASE CHANGE AROUND FINNED TUBE SUBMERSED IN PCM	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
FERNANDA GOMES	801	NUMERICAL SIMULATION OF THE BUBBLE PEN PHENOMENON	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Fernanda Link	776	TOPOLOGICAL OPTIMIZATION OF DISCRETIZED FLUID-STRUCTURE SYSTEMS WITH UNSTRUCTURED MESHES	Aerospace Engineering	Propulsion	oral
Fernanda Silva	801	NUMERICAL SIMULATION OF THE BUBBLE PEN PHENOMENON	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Fernando Costa	33	Temperature Profile Analysis of Polyurethane and Polystyrene Boards Applied in Cold Chambers	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Fernando Rodrigues	91	PERFORMANCE ANALYSIS OF A COMBINED CYCLE FOR ELECTRICITY GENERATION WITH GAS TURBINE COMPRESSOR INLET AIR COOLING BY EVAPORATIVE COOLING	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Fernando Andrade Rodrigues	772	ANALYSIS OF THERMOCLINE STORAGE TANK CONFIGURATIONS FOR CONCENTRATED SOLAR POWER PLANTS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Fernando Belchior	648	HEAT TRANSFER STUDY OF DRY-TYPE TRANSFORMER	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral

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Fernando Cesar De Lai	318	DDPM-DEM Simulation of the Mud Cake Build up in Cross Flow Filtration over Heterogeneous Porous Medium	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Fernando Cesar De Lai	318	DDPM-DEM Simulation of the Mud Cake Build up in Cross Flow Filtration over Heterogeneous Porous Medium	Fluid Mechanics and Rheology	Multi-phase Flow	oral
FERNANDO COSTA	362	Spray Cone Angles by a Jet Swirl Injector for Atomization of Gelled Ethanol	Aerospace Engineering	Propulsion	oral
FERNANDO COSTA	432	LOW COST THRUST VECTORING CONTROL SYSTEM FOR A SOLID PROPELLANT ROCKET	Aerospace Engineering	Propulsion	oral
Fernando Cúñez	87	EXPERIMENTAL INVESTIGATION OF LIQUID-SOLID FLUIDIZED BEDS IN A NARROW TUBE	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Fernando Cúñez	734	PATTERNS FORMED ON BI-DISPERSED SOLID-LIQUID FLUIDIZED BEDS IN NARROW TUBES	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Fernando Filho Fachini	439	Stability of Binary Mixing Layers Under the Effect of Buoyancy Forces	Aerospace Engineering	Propulsion	oral
Fernando Filho Fachini	455	Mixing Layer Stability Analysis With Strong Temperature Gradients	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Fernando Filho Fachini	601	FERROFLUID DROPLET HEATING AND VAPORIZATION UNDER LOW MAGNETIC POWER	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Fernando Filho Fachini	601	HEATING AND VAPORIZATION OF FERROFLUID DROPLET	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Fernando Kroetz	86	A REVIEW ON CONSTITUTIVE EQUATIONS FOR GELLED WAXY CRUDE OIL MODELING	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Fernando Lima	405	Feasibility review for automation and mechanical improvements on cooling towers	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Fernando Lima de Oliveira	5	POLLUTANTS PREDICTION IN PULSED DIFFUSE FLAME THROUGH NUMERICAL METHOD	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Fernando Milanese	54	A computational study of the hydrodynamic developing region in single-phase minichannels	Nano and Microfluidic and Micro-Systems	Micro and Nanofluidics	oral
Fernando Milanese	456	A THEORETICAL ANALYSIS FOR PRESSURE DROP AND HEAT TRANSFER IN CORRUGATED PLATE HEAT EXCHANGERS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Fernando Milioli	17	EFFECT OF THE MACRO-SCALE TOPOLOGY OVER THE EFFECTIVE DRAG COEFFICIENT IN DENSE GAS-SOLID FLUIDIZED FLOWS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Fernando Milioli	35	EFFECT OF THE FLOW MACRO-SCALE ON THE EFFECTIVE STRESSES IN DENSE GAS-SOLID FLUIDIZED FLOWS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Fernando Moro	328	DESIGN AND ASSEMBLING OF A MAGNETIC CIRCUIT FOR A THERMOMAGNETIC MOTOR APPARATUS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Fernando Peixoto	73	CHEMICALLY REACTING PROBLEMS BY MICHAELIS-MENTEN KINETICS TYPE WITH INTEGRAL TRANSFORMS TREATMENT	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Fernando Peixoto	73	CHEMICALLY REACTING PROBLEMS BY MICHAELIS-MENTEN KINETICS TYPE WITH INTEGRAL TRANSFORMS TREATMENT	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Fernando Pereira	24	Application of the SA Optimisation Method to the Correlated WMP Radiation Model for Flames	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Fernando Pereira	178	INTEGRAL PREDICTION MODEL OF PROCESS PARAMETERS AND POLLUTANT FORMATION FOR A COAL-FIRED THERMAL POWER PLANT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Fernando Pereira	250	COMPUTATION OF A LAMINAR DIFFUSION ETHYLENE/AIR FLAME CONSIDERING SOOT FORMATION AND THE WEIGHTED-SUM-OF-GRAY-GASES MODEL	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Fernando Pereira	410	EVALUATION OF FLAME LENGTH IN MULTI-JET NON-PREMIXED NATURAL GAS FLAMES DILUTED WITH CO2	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Fernando Pereira	415	EVALUATION OF THE LAMINAR BURNING VELOCITY OF A SYNGAS MIXTURE IN OXY-COMBUSTION	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Fernando Pereira	513	IMPLEMENTATION OF THE FLAMELET-GENERATED-MANIFOLD FOR PREMIXED LAMINAR FLAMES WITH HEAT LOSS	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Fernando Pereira	678	EXPERIMENTAL AND NUMERICAL INVESTIGATION OF COAL DEVOLATILIZATION IN A DTF	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster
Filipi Martins Fernandes Silva	331	Influence of Turbulence on the Flameless Combustion Flow Field	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Filipi Martins Fernandes Silva	380	TURBULENCE CHARACTERIZATION OF A FLOW AROUND A DI INJECTOR USING CFD	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Flavia Bernardo	183	DETERMINING EFFECTIVE DIFFUSION COEFFICIENT OF BANANAS DURING DRYING PROCESS USING DIFFERENTIAL EVOLUTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Flavia Bernardo	234	OPTIMIZATION OF DOUBLE PIPE-HEAT EXCHANGER WITH SINGLE SEGMENTAL PERFORATED BAFFLES	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Flávio Albuquerque	197	SOLUTION FOR THE CALCULATION OF THE DISTRIBUTION OF CONCENTRATION IN PROPAGATION OF CONTAMINANTS IN SANITARY LANDFILL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster

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Flávio Bannwart	447	Fractional calculus applied to linear thermoacoustics: A generalization of Rott's model	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Flávio Bannwart	656	On the synthesis of the transfer matrix of thermoacoustic cores from arbitrary engine performance	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Flávio Freitas	274	THE ACOUSTIC ENHANCEMENT ANALYSES IN THE COMBUSTION PARAMETERS OF THE EUCALYPTUS FIREWOOD.	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Flavio Peres Amado	8	FORECASTING THE LENGTH OF THE UNDEVELOPED FLOW REGION IN THE INLET OF ASYMMETRIC BIFURCATIONS I	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	poster
Flavio Peres Amado	9	FORECASTING THE LENGTH OF THE UNDEVELOPED FLOW REGION IN THE INLET OF ASYMMETRIC BIFURCATIONS II	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	poster
Flavio Vanderlei Júnior Zancanaro	530	CFD ANALYSIS OF A VAPOR COMPRESSION SYSTEM USING SINGLE- AND TWO-PHASE EJECTOR AS AN EXPANDER DEVICE	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Francis França	24	Application of the SA Optimisation Method to the Correlated WMP Radiation Model for Flames	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Francis França	36	A proposed correction of the cumulative wavenumber method in the determination of the radiative heat flux	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Francis França	40	Comparison of the Gray-Gas and Weighted-Sum-of-Gray-Gases Models in a Non-Premixed Methane-air Flame Considering the Turbulence-Radiation Interaction	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Francis França	51	A STUDY OF THE INFLUENCE OF TURBULENT INLET CONDITIONS IN A NUMERICAL SIMULATION OF A CYLINDRICAL COMBUSTION CHAMBER WITH A TURBULENT NON-PREMIXED METHANE-AIR FLAME	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Francis França	63	NUMERICAL ANALYSIS OF COOLING OF ELECTRONIC COMPONENTS BY HEATSINKS WITH MICROCHANNELS	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Francis França	123	Evaluation of the WSGG model accuracy as a function of path length in non-isothermal, non-homogeneous media	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Francis França	124	A report on the implementation of new spectral models for radiative heat transfer calculations in the software Fire Dynamics Simulator	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Francis França	250	COMPUTATION OF A LAMINAR DIFFUSION ETHYLENE/AIR FLAME CONSIDERING SOOT FORMATION AND THE WEIGHTED-SUM-OF-GRAY-GASES MODEL	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Francis França	834	RADIATIVE TRANSFER PREDICTION IN PARTICIPATING MEDIUM BOUNDED WITH NONGRAY WALLS USING THE SLW MODEL	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Francisco Braz Filho	401	SENSIBILITY STUDY OF MOMENTUM EQUATION MODELS FOR SUBCOOLED BOILING PHENOMENA SIMULATION	Nuclear Engineering	Nuclear Engineering	oral
Francisco de Souza Forte Neto	760	ANALYSIS OF MOISTURE ADSORPTION ISOTHERMS FOR ROASTED AND RAW BIOMASSES	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Francisco Everton Tavares de Luna	611	ANALISYS OF THE INFLUENCE OF A GAS RESERVOIR (LUNG) INTRODUCED INTO A BIOMASS GASIFIER	Aerospace Engineering	Propulsion	poster
Francisco Everton Tavares de Luna	613	ADAPTATION OF A DIESEL MWM ENGINE, STACIONARY, MODEL 229/4, TO WORK WITH BIOFUEL: DIESEL-NATURAL GAS	Aerospace Engineering	Propulsion	poster
Francisco Gonzaga	792	Simulation of a Diesel Engine Using AVL FIRE Software	Combustion and Environmental Engineering	Engine Combustion	poster
Francisco Belo	105	THEORETICAL ANALYSIS OF THE TEMPERATURE DYNAMICS FOR DIFFERENT CONCENTRATIONS OF THE WATER-ALCOHOL MIXTURE INSIDE A CYLINDRICAL TUBE	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Francisco Belo	343	A Study of the Laminar Thermal Boundary Layer in Round Ducts Using GITT	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Francisco do Nascimento	381	COMPUTATIONAL SIMULATION OF TAYLOR BUBBLES MOTION IN A STAGNANT LIQUID INSIDE A VERTICAL COLUMN	Nuclear Engineering	Nuclear Engineering	oral
Francisco Ricardo Cunha	39	ANALYSIS OF MAGNETIC FLUID DISPLACEMENT IN CAPILLARIES	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Francisco Ricardo Cunha	189	NUMERICAL SIMULATIONS OF THERMOMAGNETIC CONVECTION INSIDE A THIN CAVITY	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Francisco Ricardo Cunha	202	MAGNETIZATION DYNAMICS IN FERROFLUIDS: A DYNAMICAL SYSTEM APPROACH	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
francisco sepulveda	395	LOW-COST EIT SYSTEM DESIGN BASED ON THE SOFTWARE EIDORS	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Francisco Tarcísio Guedes Lima Verde Neto	549	ECONOMIC EVALUATION OF EGS IN THE BRAZILIAN ENERGY MARKET: FOCUS ON THE NORTHEASTERN REGION.	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Frederico Romagnoli Silveira Lima	332	COMPARATIVE STUDY OF SIMULATED SOLAR TOWER POWER PLANT BETWEEN TWO CITIES OF BRAZIL AND THE USA.	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Frederico Romagnoli Silveira Lima	681	CFD VALIDATION OVER A CABIN-TYPE SOLAR DRYER USING ANSYS FLUENT SOFTWARE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster

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Gabriel Fernandes de Souza	111	EXERGOECONOMIC AND EXERGOENVIRONMENTAL ANALYSIS OF POWER PLANT WITH CO2 CAPTURE AND STORAGE	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	oral
Gabriel Bertacco dos Santos	761	Effect of blood rheology model on hemodynamic parameters related to intracranial aneurysm rupture	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Gabriel Caetano Gomes Ribeiro da Silva	723	Heat Transfer Analysis of a Supercritical Carbon Dioxide Natural Circulation Loop	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Gabriel Faria	458	ANALYSIS OF THE COMBUSTION PROCESS IN AN ENGINE ADAPTED WITH PRE-CHAMBER USING A ZERO DIMENSIONAL NUMERICAL MODEL AND A THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Gabriel Faria	725	ANALYSIS OF THE COMBUSTION PROCESS IN AN ENGINE ADAPTED WITH PRE-CHAMBER USING A ZERO DIMENSIONAL NUMERICAL MODEL AND A THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Gabriel Ivan Medina Tapia	271	SIMULATION OF CSP POWER PLANTS IN THE WESTERN MESOREGION OF THE STATE OF RIO GRANDE DO NORTE – BR	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Gabriel Ivan Medina Tapia	340	Economic Viability Analysis of CSP Technology in the State of Rio Grande do Norte	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Gabriel Ivan Medina Tapia	770	ENERGY AND ECONOMIC ANALYSIS OF GAS TURBINE WITH ORGANIC RANKINE CYCLE	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Gabriel Ivan Medina Tapia	774	MATHEMATICAL MODEL FOR OPTICAL LOSSES CALCULATION IN HELIOSTAT FIELDS IN SOLAR TOWER POWER PLANTS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Gabriel Ivan Medina Tapia	810	ANALYSIS OF A SOLAR PARABOLIC DISH STIRLING ENGINE USING BRAZILIAN NORTHEAST SOLARIMETRIC DATA	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Gabriel Maltese de Oliveira Meletti	4	Boundary Layer Transition From Smooth To Rough Walls	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
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Gabriel Mendes de Almeida Carvalho	726	LONGITUDINAL ACCELERATION OF A VEHICLE PROTOTYPE	Combustion and Environmental Engineering	Engine Combustion	poster
Gabriel Merhy de Oliveira	533	Effects of solubility on kick detection and pressure transmission	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Gabriel Saavedra	799	ANALYTICAL TRANSIENT HEAT CONDUCTION THROUGH AN COMPOSITE REGION OF AN INFINITE SOLID CYLINDER WITH A PERFECT THERMAL CONTACT TO A SEMI-INFINITE MEDIUM	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	poster
Gabriel Serafin Couto Vieira	372	Stationary test bench for evaluation of the heat exchange of automotive radiators	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Gabriel Silva	483	DISTRIBUTION ENTROPY AS TOOL TO QUANTIFY DIFFUSION	Nano and Microfluidic and Micro-Systems	Micro and Nanofluidics	oral
Gabriel Soares	809	LOSS OF PIPELINE PRESSURE WITH SINGLE-PHASE AND BIPHASIC	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Gabriela Almeida	270	NUMERICAL SIMULATION OF FLOW IN A PATIENT WITH ASCENDING AORTIC ANEURYSM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Gabriela Oliveira	97	INVERSE PROBLEM OF A ONE-DIMENSIONAL MODEL IN MULTILAYER HEAT CONDUCTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Gabriela Oliveira	141	ANALYTICAL SOLUTION OF NONLINEAR TRANSIENT HEAT CONDUCTION PROBLEM USING GREEN'S FUNCTIONS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Gabriela Senra Pessanha Rios Nobrega	143	EXPERIMENTAL STUDY OF THE INFLUENCE OF THE SWIRL NUMBER ON LEAN PREMIXED COMBUSTION REGIMES	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
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Gaylord Carrillo	199	SOLAR RAY-TRACING SIMULATION AND THERMAL ANALYSIS OF A DISH STIRLING RECEIVER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
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George Marinho	74	A NEW APPROACH TO OPTIMIZE THE SCRAMJET INLET DESIGN APPLYING THE TOTAL PRESSURE RECOVERY	Aerospace Engineering	Propulsion	poster
George Marinho	177	THERMAL ANALYSIS OF THE GENERIC SCRAMJET FLYING AT 30 KM ALTITUDE WITH MACH NUMBER 6.8	Aerospace Engineering	Propulsion	oral
George Marinho	193	UFRN'S INWARD ACADEMIC SCRAMJET COUPLED TO FTI ROCKET MOTOR TO DEMONSTRATE SUPERSONIC COMBUSTION	Aerospace Engineering	Propulsion	poster
George Marinho	388	ANALYSIS OF HEAT TRANSFER IN AN ACADEMIC ROCKET ENGINE USING NUMERICAL METHODS	Energy and Thermal Sciences	Numerical Heat Transfer	poster
George Marinho	566	VOLUMETRIC HEAT CAPACITY ANALYSIS OF SUGARCANE BAGASSE POWDER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
George Marinho	751	DESIGN AND ANALYSIS OF A GENERIC SCRAMJET AIR INLET	Aerospace Engineering	Propulsion	poster
George Marinho	789	Aerodynamic analysis of a scramjet for atmospheric flight	Aerospace Engineering	Propulsion	poster
George Marinho	817	EQUILIBRIUM AND PERFECT GAS AIR BEHAVIOR IN THE STAGNATION REGION	Aerospace Engineering	Propulsion	poster
George Stephane Queiroz de Oliveira	798	BEHAVIOR ANALYSIS SIMULATION OF SOLID PROPELLANT ROCKET ENGINE.	Aerospace Engineering	Propulsion	poster

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George Stephane Queiroz de Oliveira	830	ACQUISITION OF THERMOCOUPLE DATA BY ARDUINO® MICROCONTROLLERS	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
GERSON RONELLI	829	THERMAL ANALYSIS OF TUBES TAMPONING IN CONDENSERS OF A PWR NUCLEAR POWER PLANT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Gerson Santos	230	THERMAL PERFORMANCE AND GEOMETRIC OPTIMIZATION OF AN EARTH-PIPE-AIR HEAT EXCHANGER (EPAHE) IN DIFFERENT SOILS	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	poster
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Gherhardt Ribatski	394	A REVIEW ON POLYMER HEAT SINKS FOR ELECTRONIC COOLING APPLICATIONS	Nano and Microfluidic and Micro-Systems	Heat and Mass Transfer in Micro and Nano scales	oral
Gherhardt Ribatski	759	PRESSURE AND SHEAR STRESS ANALYSIS IN A TRIANGULAR TUBE BUNDLE BASED ON EXPERIMENTAL FLOW VELOCITY FIELD	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
Gilberto Carlos dos Reis Junior	558	REPOWERING ANALYSIS OF THE GARGAÚ WIND POWER PLANT	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Gilcilene Sanchez de Paulo	826	An Algorithm for Solving an Implicit Solution for Fully Developed Flow in a Channel of a Giesekus Fluid	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Gilmar Guimaraes	97	INVERSE PROBLEM OF A ONE-DIMENSIONAL MODEL IN MULTILAYER HEAT CONDUCTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Gilmar Guimaraes	141	ANALYTICAL SOLUTION OF NONLINEAR TRANSIENT HEAT CONDUCTION PROBLEM USING GREEN'S FUNCTIONS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Gilmar Guimaraes	816	ANALYTICAL SOLUTION OF ONE-DIMENSIONAL TRANSIENT PENNEN'S BIOHEAT TRANSFER EQUATION IN CARTESIAN COORDINATES USING GREEN FUNCTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Gilmar Guimaraes	816	EXPERIMENTAL ESTIMATION OF THE LOCATION AND INTENSITY OF A HEAT SOURCE FROM SURFACE TEMPERATURES USING THE SEQUENTIAL METHOD	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Gilvan Borba	56	DESIGN OF THE GENERIC SCRAMJET COMBUSTION CHAMBER	Aerospace Engineering	Propulsion	oral
Gilvan Borba	72	DESIGN OF AN ACADEMIC SCRAMJET FOR ATMOSPHERIC CAPTIVE FLIGHT AT MACH NUMBER 4.18 COUPLED TO A ROCKET FTI	Aerospace Engineering	Propulsion	poster
Gilvan Borba	74	A NEW APPROACH TO OPTIMIZE THE SCRAMJET INLET DESIGN APPLYING THE TOTAL PRESSURE RECOVERY	Aerospace Engineering	Propulsion	poster
Gilvan Borba	177	THERMAL ANALYSIS OF THE GENERIC SCRAMJET FLYING AT 30 KM ALTITUDE WITH MACH NUMBER 6.8	Aerospace Engineering	Propulsion	oral
Gilvan Borba	193	UFRN'S INWARD ACADEMIC SCRAMJET COUPLED TO FTI ROCKET MOTOR TO DEMONSTRATE SUPERSONIC COMBUSTION	Aerospace Engineering	Propulsion	poster
Gilvan Borba	751	DESIGN AND ANALYSIS OF A GENERIC SCRAMJET AIR INLET	Aerospace Engineering	Propulsion	poster
Gilvan Borba	789	Aerodynamic analysis of a scramjet for atmospheric flight	Aerospace Engineering	Propulsion	poster
Gilvan Borba	817	EQUILIBRIUM AND PERFECT GAS AIR BEHAVIOR IN THE STAGNATION REGION	Aerospace Engineering	Propulsion	poster
Giovana Bagatin Prioli Mendes de Matos	626	ANALYSIS OF THE GASIFICATION OF BIOMASS PELLETS AND INFLUENCES OF DIFFERENT COMPOSITION	Combustion and Environmental Engineering	Combustion, Pyrolysis and Gasification of Solids and Liquids	poster
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Glauber Cruz	398	TEMPERATURE PROFILES INSIDE THE COMBUSTION CHAMBER OF A DROP TUBE FURNACE (DTF) FOR THE DIFFERENT THERMAL PROCESSES AND BIOMASSES	Combustion and Environmental Engineering	Combustion, Pyrolysis and Gasification of Solids and Liquids	oral
Gleydson Yuri Ramos Silva	431	FINITE ELEMENTS SIMULATION OF HEAT TRANSFER IN THIN PLATES WITH TEMPERATURE DEPENDENT CONDUCTIVITY	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Glycon Pena de Souza Barros	689	EXPERIMENTAL STUDY OF A VAPOR COMPRESSION CYCLE PERFORMANCE BEHAVIOR	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Glycon Pena de Souza Barros	690	ANALYSIS OF THE AIR CONDITIONING SYSTEM OF A DATA CENTER USING THERMOGRAPHY AND CFD	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Glycon Pena de Souza Barros	775	LABYRINTH SEALS - A LITERATURE REVIEW	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	poster
Glycon Pena de Souza Barros	782	CASE STUDIES OF PHOTOVOLTAIC CELL APPLIANCES AND ALTERNATIVE ENERGY PRODUCTION METHODS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Grack Rodrigues Gama	689	EXPERIMENTAL STUDY OF A VAPOR COMPRESSION CYCLE PERFORMANCE BEHAVIOR	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Gregory Viana	467	DEVELOPMENT OF A COMPUTATIONAL MODEL FOR SIMULATION OF ORGANIC RANKINE CYCLES (ORC)	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Gretta Larisa Aurora Arce Ferrufino	572	ENERGY ASSESSMENT OF TORREFACTION OF SUGARCANE BAGASSE	Combustion and Environmental Engineering	Combustion, Pyrolysis and Gasification of Solids and Liquids	poster

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Gretta Larisa Aurora Arce Ferrufino	579	COMPARATIVE STUDY OF TORREFACTION OF BRAZILIAN LIGNOCELLULOSIC BIOMASSES	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Gretta Larisa Aurora Arce Ferrufino	704	STUDY OF THE REDUCTION OF THE SERPENTINITOS PARTICLE SIZE TO INCREASE THE EFFICIENCY OF THE PROCESSES OF MINERAL CARBONATION	Combustion and Environmental Engineering	Environmental Engineering	poster
GUENTHER Krieger Filho	220	METHODS FOR PERFORMANCE PREDICTING AND SIZING OF MULTISTAGE CENTRIFUGAL COMPRESSORS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
GUENTHER Krieger Filho	286	BACKGROUND-ORIENTED SCHLIEREN IN A YALE BURNER	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
GUENTHER Krieger Filho	298	EXPERIMENTAL STUDY OF OXY-FUEL COMBUSTION IN A COFLOW BURNER	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
GUENTHER Krieger Filho	331	Influence of Turbulence on the Flameless Combustion Flow Field	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
GUENTHER Krieger Filho	380	TURBULENCE CHARACTERIZATION OF A FLOW AROUND A DI INJECTOR USING CFD	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
GUENTHER Krieger Filho	675	NUMERICAL SIMULATIONS OF FLAMMABILITY EXPERIMENTS IN LITTER FUELS IN THE BRAZILIAN AMAZON	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Guilherme Loyola França de Vasconcellos	320	NUMERICAL STUDY OF A FLOW AROUND TWO CIRCULAR CYLINDERS IN A WIND TUNNEL	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Guilherme Loyola França de Vasconcellos	320	NUMERICAL STUDY OF A FLOW AROUND TWO CIRCULAR CYLINDERS IN A WIND TUNNEL	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Guilherme Loyola França de Vasconcellos	716	Evaluation of the Influence of Ambient Temperature on the Performance Coefficient of a Refrigeration Cycle by Single Pressure Absorption	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Guilherme Oliveira	817	EQUILIBRIUM AND PERFECT GAS AIR BEHAVIOR IN THE STAGNATION REGION	Aerospace Engineering	Propulsion	poster
Guilherme Pante Leme de Campos	543	Thermal comparison between a domestic oven with and without alumina.	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Guilherme Agues Emerick	715	USE OF DIFFERENTIAL EQUATIONS TO MEASURE THE POWER LOSS IN SLIDING BEARINGS WITH DIFFERENT LUBRICATING OILS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Guilherme Alonso Solano	452	A NUMERICAL STUDY OF THE CAPSULE-INTAKE FLOW OF A SIMPLIFIED AND SCALED ELECTRIC SUBMERSIBLE PUMP ON THE SKID (ESP-S)	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Guilherme Antonio Bartmeyer	481	THICKNESS INFLUENCE OF THE COPPER POWDER SINTERED CAPILLARY STRUCTURE IN THE THERMAL PERFORMANCE OF HEAT PIPES	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Guilherme Biazi Gonçalves	603	LOW COST THERMAL PYRANOMETER USING DALLAS DS18B20 SENSOR AND ARDUINO	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Guilherme Biazi Gonçalves	606	THERMAL RADIOMETER USING LM35 ANALOG SENSORS, CONNECTED TO AN ARDUINO BOARD	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Guilherme Fraga	123	Evaluation of the WSGG model accuracy as a function of path length in non-isothermal, non-homogeneous media	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Guilherme Fraga	124	A report on the implementation of new spectral models for radiative heat transfer calculations in the software Fire Dynamics Simulator	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Guilherme Garcia Botelho	667	Computational System for Physically Non-linear Thermal Analysis	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Guilherme Garcia Botelho	763	Steady State Heat Conduction Modeling by the Generalized Finite Element Method	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Guilherme Hasse Urel	202	MAGNETIZATION DYNAMICS IN FERROFLUIDS: A DYNAMICAL SYSTEM APPROACH	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Guilherme Henrique Fiorot	377	Towards the development of a test-fluid for isothermal laboratory tests at low-shear rate in sugar and ethanol industry	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Guilherme Kaneko	328	DESIGN AND ASSEMBLING OF A MAGNETIC CIRCUIT FOR A THERMOMAGNETIC MOTOR APPARATUS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
GUILHERME LACERDA DE OLIVEIRA	832	ENERGY PENALTY MODEL FOR FLUE GAS DESULFURIZATION SYSTEMS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
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Guilherme Mota	140	TEMPERATURE AND SALINITY INFLUENCE ON RHEOLOGICAL PROPERTIES OF AQUEOUS DIUTAN GUM SOLUTION	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Guilherme Ribeiro	46	NUMERIC EVALUATION OF A HEAT PIPE-RADIATOR ASSEMBLY FOR SPACE POWER SYSTEMS	Aerospace Engineering	Propulsion	oral
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Guilherme Ribeiro	114	HEAT EXCHANGER OPTIMIZATION OF A RANKINE CYCLE FOR NUCLEAR PROPULSION	Nuclear Engineering	Nuclear Engineering	poster
Guilherme Ribeiro	115	Second Law Based Closed Brayton Cycle Regenerator Optimization	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
guilherme salvagnini	377	Towards the development of a test-fluid for isothermal laboratory tests at low-shear rate in sugar and ethanol industry	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Guilherme Santos	453	REVIEW ON MARKET TRENDS AND SYNGAS USABILITY IN FUEL CELLS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster

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Guilherme Scagnolatto	554	SIMULATION OF A SMALL SCALE ORGANIC RANKINE CYCLE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Guilherme Viana	435	ANALYSIS OF THE THERMAL EFFICIENCY OF A SOLAR THERMAL COLLECTOR FOR LOW-INCOME FAMILIES	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Guilherme Viana	649	THERMAL ANALYSIS OF A TUBELESS FLAT-PLATE SOLAR COLLECTOR	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Gustavo Abreu	457	PROPOSAL TO OPTIMIZE THE PERFORMANCE OF THE LONGITUDINAL ACCELERATION OF A VEHICLE PROTOTYPE	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster
Gustavo Abreu	726	LONGITUDINAL ACCELERATION OF A VEHICLE PROTOTYPE	Combustion and Environmental Engineering	Engine Combustion	poster
Gustavo Alexandre Achilles Fischer	362	Spray Cone Angles by a Jet Swirl Injector for Atomization of Gelled Ethanol	Aerospace Engineering	Propulsion	oral
Gustavo Alonso Barrientos Sandoval	290	RHEOLOGICAL STUDY OF GAS HYDRATE FORMATION; EFFECTS CAUSED BY THE ADDITION OF GAS CONDENSATE TO THE WATER-IN-OIL EMULSIONS.	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Gustavo Barbosa Micheli	7	NUMERICAL AND EXPERIMENTAL ANALYSIS OF RADIAL FANS APPLIED IN AGRICULTURAL SPREADERS USING CFD	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Gustavo Cesar Rachid Bodstein	422	NUMERICAL SIMULATION OF THE TWO-DIMENSIONAL INCOMPRESSIBLE FLOW AROUND ELLIPTIC CYLINDERS USING THE VORTEX METHOD	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Gustavo Jean da Costa	192	DESIGN AND ANALYSIS OF A SCRAMJET INLET AND COMBUSTION CHAMBER FOR HEAT ADDITION RATE INVESTIGAT	Aerospace Engineering	Propulsion	poster
Gustavo Maccari	54	A computational study of the hydrodynamic developing region in single-phase minichannels	Nano and Microfluidic and Micro-Systems	Micro and Nanofluidics	oral
Gustavo Obregon Furstenau	530	CFD ANALYSIS OF A VAPOR COMPRESSION SYSTEM USING SINGLE- AND TWO-PHASE EJECTOR AS AN EXPANDER DEVICE	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Gustavo Pires Villela de Almeida	424	A STUDY ON THE INFLUENCE OF RHEOLOGY MODEL IN A CONSTRICTED CHANNEL FLOW	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Gustavo Rabello dos Anjos	173	STREAM FUNCTION-VORTICITY FORMULATION APPLIED IN THE CONJUGATED HEAT PROBLEM USING THE FEM WITH UNSTRUCTURED MESH	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Gustavo Rabello dos Anjos	357	BLOOD FLOW DYMANICS SIMULATION IN CORONARY ARTERY WITH DRUG-ELUTING STENT USING FINITE ELEMENT METHOD	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Gustavo Rabello dos Anjos	509	ANISOTROPIC TRANSPORT THROUGH POLYMER LAYER AND POROUS ARTERIAL WALL WITH BINDING IN DRUG-ELUTING STENTS USING THE FEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Gustavo Rabello dos Anjos	509	ANISOTROPIC TRANSPORT THROUGH POLYMER LAYER AND POROUS ARTERIAL WALL WITH BINDING IN DRUG-ELUTING STENTS USING THE FEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Gustavo Rodrigues	776	TOPOLOGICAL OPTIMIZATION OF DISCRETIZED FLUID-STRUCTURE SYSTEMS WITH UNSTRUCTURED MESHES	Aerospace Engineering	Propulsion	oral
Gustavo Rodrigues de Souza	766	BIODIESEL PRODUCTION IN SMALL SCALE	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Gustavo Silva Rodrigues	136	Numerical Analysis of the Minimization of Frost Formation in Flat Plate With Different Coatings	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Gustavo Silva Rodrigues	139	Performance of Finite Volume Discretization Schemes for the Convective-Diffusive Linear Transport Equation. Part I: Low Eigenvalue-Peclet Ratios.	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Gustavo Silva Rodrigues	159	Performance of Finite Volume Discretization Schemes for the Convective-Diffusive Linear Transport Equation. Part II: High Eigenvalue-Peclet Ratios.	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Gustavo Wink	655	NEW EMPIRICAL CORRELATIONS FOR PREDICTING THE THERMAL CONDUCTIVITY AND VISCOSITY OF NANOFLUIDS Al ₂ O ₃ /WATER	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	oral
HANDERSON CORREA GOMES	366	COMPARISON BETWEEN SOLAR TRACKING SYSTEMS DEVELOPED FROM MATHEMATICAL MODELS OF SOLAR GEOMETRY AND LDR SENSORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
HANDERSON CORREA GOMES	387	OPTIMIZATION AND EXERGETIC ANALYSIS OF A REGENERATIVE CYCLE USING BIOGAS COMBINED WITH HYDROGEN AS FUEL	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Heidi Korzenowski	219	SU ² CFD simulation of the Hypersonic Technological Demonstrator 14-X B at flight Mach number 7	Aerospace Engineering	Propulsion	poster
Helcio Orlande	80	APPLICATION OF WAF-TVD SCHEME FOR WATER HAMMER EQUATIONS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Helcio Orlande	833	THE USE OF INFRARED IMAGE FOR THE DETECTION OF THE THYROID	Bioengineering	Bioengineering	oral
Helena Haas Reichert	207	EVALUATION OF AN ARTIFICIAL NEURAL NETWORK MODEL COMPARED WITH A REGRESSION MODEL TO ESTIMATE THE STEAM FLOW GENERATION OF A REAL THERMOELECTRIC POWER PLANT DATA	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Helena Serrano	73	CHEMICALLY REACTING PROBLEMS BY MICHAELIS-MENTEN KINETICS TYPE WITH INTEGRAL TRANSFORMS TREATMENT	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Helena Serrano	73	CHEMICALLY REACTING PROBLEMS BY MICHAELIS-MENTEN KINETICS TYPE WITH INTEGRAL TRANSFORMS TREATMENT	Energy and Thermal Sciences	Numerical Heat Transfer	oral

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Hélio Augusto Goulart Diniz	30	ENERGY EFFICIENCY OF A SOLAR HEAT PUMP OPERATING IN NULL SOLAR RADIATION CONDITION	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Hélio Augusto Goulart Diniz	42	DESIGN OF A COOLING MACHINE OPERATING WITH CO2 IN SUBCRITICAL CYCLE	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	poster
Hélio Augusto Goulart Diniz	49	PERFORMANCE COMPARISON OF DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP WORKING WITH R1234YF AS A DROP-IN REPLACEMENT FOR R134A	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Hélio Augusto Goulart Diniz	92	TRANSIENT ANALYSIS OF A HEAT PUMP SOLAR EVAPORATOR THROUGH A TEMPERATURE STEP	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Hélio Augusto Goulart Diniz	94	INTEGRATION OF A CONCENTRATED SOLAR POWER PLANT, A SUGAR-CANE BIORREFINERY AND A BIODIGESTION PLANT	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Hélio Augusto Goulart Diniz	109	EXPERIMENTAL ANALYSIS OF THE OPERATION CONTROL OF A REFRIGERATING MACHINE	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Hélio Augusto Goulart Diniz	113	CHARACTERIZATION AND ANALYSIS OF THE EFFICIENCY OF A HERMETIC COMPRESSOR	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Hélio Augusto Goulart Diniz	591	DESIGN AND APPLICATION OF A DIDACTIC PLATFORM FOR HEAT TRANSFER PRACTICE CLASSES	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Hélio Augusto Goulart Diniz	689	EXPERIMENTAL STUDY OF A VAPOR COMPRESSION CYCLE PERFORMANCE BEHAVIOR	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Hélio Augusto Goulart Diniz	690	ANALYSIS OF THE AIR CONDITIONING SYSTEM OF A DATA CENTER USING THERMOGRAPHY AND CFD	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Hélio Augusto Goulart Diniz	775	LABYRINTH SEALS - A LITERATURE REVIEW	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	poster
Hélio Augusto Goulart Diniz	782	CASE STUDIES OF PHOTOVOLTAIC CELL APPLIANCES AND ALTERNATIVE ENERGY PRODUCTION METHODS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Hélio de Paula Barbosa	823	ADJUSTING THE WEIBULL CURVE USING NUMERICAL METHODS AND HEURISTIC METHODS AND CALCULATION OF POTENTIAL IN WIND ENERGY	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Helio Henrique Santomo Villanueva	331	Influence of Turbulence on the Flameless Combustion Flow Field	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Helio Henrique Santomo Villanueva	380	TURBULENCE CHARACTERIZATION OF A FLOW AROUND A DI INJECTOR USING CFD	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Hendrick Zarate Rocha	126	CALIBRATION OF THERMOCOUPLE TYPE TEMPERATURE SENSORS BY COMPARISON WITH STANDARD INSTRUMENT USING LINEAR REGRESSION MATH METHOD	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Hendrick Zarate Rocha	346	MEASUREMENT OF AIR MASS FLOW IN COMPRESSION IGNITION ENGINES	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Hendrick Zarate Rocha	363	Analysis of the Specific Fuel Consumption of a Diesel Generator Set Influenced by the Cooling Fluid Temperature.	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Hendrick Zarate Rocha	373	IMPACTS ON THE PARAMETERS OF WIEBE FUNCTION WITH LOAD VARIATION IN COMPRESSION IGNITION ENGINES	Combustion and Environmental Engineering	Engine Combustion	poster
Hendrick Zarate Rocha	614	EXPERIMENTAL ANALYSIS IN A DIESEL GENERATOR SET CONSUMING FUEL B7, WITH HHO GAS INJECTION IN THE AIR OF ADMISSION	Combustion and Environmental Engineering	Engine Combustion	poster
Hendrick Zarate Rocha	743	Manufacturing and analysis of an alpha type Stirling engine prototype	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Hendrick Zarate Rocha	754	METHODOLOGIES FOR MEASURING SPECIFIC CONSUMPTION FUE IN COMPRESSION IGNITION ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Hendrick Zarate Rocha	764	Application of Optimization Techniques to Prediction of Parameters Wiebe Function in a Diesel Generator Set	Combustion and Environmental Engineering	Engine Combustion	poster
Hendrick Zarate Rocha	780	EFFECTS OF THE ADDITION OF HYDROGEN IN THE DIESEL ENGINE ADMISSION AIR CONSUMING FUEL B7 - NUMERICAL AND EXPERIMENTAL APPROACH	Combustion and Environmental Engineering	Engine Combustion	poster
Hendrick Zarate Rocha	790	PERFORMANCE ANALYSIS OF A DIESEL ENGINE OPERATING WITH TERNARY MIXTURES OF DIESEL, BIODIESEL AND ETHANOL.	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Hendrick Zarate Rocha	792	Simulation of a Diesel Engine Using AVL FIRE Software	Combustion and Environmental Engineering	Engine Combustion	poster
Hendrick Zarate Rocha	795	DEVELOPMENT OF AN EXPERIMENTAL BENCH FOR THE REALIZATION OF TESTS IN DIESEL GENERATOR SETS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Hendrick Zarate Rocha	830	ACQUISITION OF THERMOCOUPLE DATA BY ARDUINO® MICROCONTROLLERS	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster

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Hendrius Oliveira	535	Solar Industrial Steam Production Technologies: Comparison Through Modeling, Simulation, and Economic Assessment	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
henrique da fonseca	833	THE USE OF INFRARED IMAGE FOR THE DETECTION OF THE THYROID	Bioengineering	Bioengineering	oral
Henrique Krainer Eidt	495	NUMERICAL ANALYSIS OF A LIQUID-GAS TWO-PHASE FLOW IN A DISTRIBUTION SYSTEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Henrique Stel	651	NUMERICAL EVALUATION OF THE TWO-PHASE FLOW IN A RADIAL CENTRIFUGAL PUMP	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	oral
Herly Aguilar Sanchez	300	COMPUTATIONAL FLUID DYNAMICS (CFD) BASED APPROACHES FOR MODELING AIRCRAFT TURBOFANS	Aerospace Engineering	Propulsion	poster
Hernán Cerón-Muñoz	265	Aerodynamic Heating Effect on Roughness, Aerodynamic Coefficients and Power Output of Aerogenerators: A Discussion	Aerospace Engineering	Aerodynamics	poster
Heyder Cardoso	440	Optimization of the control parameters of a vehicle's electric fan activated by PWM	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Hiago Souza da Silva	547	UNCERTAINTY ANALYSIS OF TRANSIENT PROBLEMS USING MONTE CARLO METHOD	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Hugo Felipe da Silva Lui	814	Application of Deep Learning and Proper Orthogonal Decomposition for Reduced Order Models of Unsteady Flows	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Hugo Pimentel	343	A Study of the Laminar Thermal Boundary Layer in Round Ducts Using GITT	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Humberto Alves da Silveira Monteiro	763	Steady State Heat Conduction Modeling by the Generalized Finite Element Method	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Humberto Machado	11	Evaluation of Reentry Dynamics of SARA platform Considering the Effects of Ablation in the Thermal Shield	Aerospace Engineering	Aerodynamics	oral
Humberto Machado	12	Estimation of Aerodynamic Warming with Non-zero Angle of Attack	Aerospace Engineering	Aerodynamics	oral
Iago Costa	134	MATHEMATICAL MODELING OF A SOLID WASTE INCINERATION SYSTEM AND STEAM GENERATION	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Iago Costa	149	Modeling and Simulation of the Absorber of an Absorption Refrigeration System	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Iago Costa	224	MODELING AND SIMULATION OF THERMAL MANAGEMENT SYSTEMS OF ELECTRONIC EQUIPMENT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Iago Costa	238	MATHEMATICAL MODELING OF FRACTIONAL DISTILLATION OF MICROALGAE CRUDE OIL FOR PURE HYDROCARBON PRODUCTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Iago Lessa de Oliveira	761	Effect of blood rheology model on hemodynamic parameters related to intracranial aneurysm rupture	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Iago Santos	770	ENERGY AND ECONOMIC ANALYSIS OF GAS TURBINE WITH ORGANIC RANKINE CYCLE	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Ian Steve Boshoff	305	Computational Study of Turbulence Models on Natural Circulation Circuits with Heat Generation	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Igor Kiyomura	719	POROUS AND NON-POROUS MICROSTRUCTURED SURFACES FOR BOILING HEAT TRANSFER APPLICATIONS	Nano and Microfluidic and Micro-Systems	Heat and Mass Transfer in Micro and Nano scales	oral
Igor Belisario	341	VIABILITY STUDY OF HELIOTHERMIC ENERGY GENERATION WITH PARABOLIC TROUGH CONCENTRATOR TECHNOLOGY AND THERMAL STORAGE SYSTEM FOR THE IFES CAMPUS SÃO MATEUS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Igor de Mesquita Figueredo	756	SOYBEAN AND SUNFLOWER BIODIESELS: EVALUATION OF OXIDATIVE STABILITY BY RANCIMAT AND DSC	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Igor de Paula	624	ASYMMETRIC TAYLOR BUBBLE RISING AGAINST DOWNWARD FLOW	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Ilan Gottlieb	270	NUMERICAL SIMULATION OF FLOW IN A PATIENT WITH ASCENDING AORTIC ANEURYSM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Isabela Florindo Pinheiro	73	CHEMICALLY REACTING PROBLEMS BY MICHAELIS-MENTEN KINETICS TYPE WITH INTEGRAL TRANSFORMS TREATMENT	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Isabela Florindo Pinheiro	73	CHEMICALLY REACTING PROBLEMS BY MICHAELIS-MENTEN KINETICS TYPE WITH INTEGRAL TRANSFORMS TREATMENT	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Isaias Machado	24	Application of the SA Optimisation Method to the Correlated WMP Radiation Model for Flames	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Isaias Machado	410	EVALUATION OF FLAME LENGTH IN MULTI-JET NON-PREMIXED NATURAL GAS FLAMES DILUTED WITH CO2	Combustion and Environmental Engineering	Combustion, Pyrolysis and Gasification of Solids and Liquids	oral
Ismael Marchi Neto	327	GASIFICATION STUDY OF EUCALYPTUS WOOD BASED ON THERMODYNAMIC CHEMICAL EQUILIBRIUM	Combustion and Environmental Engineering	Combustion, Pyrolysis and Gasification of Solids and Liquids	oral
ISRAEL COSTA	618	MATHEMATICAL MODELING OF POLLUTANT DISPERSION AROUND AN ISOLATED OBSTACLE UNDER DIFFERENT ATMOSPHERIC STABILITY CONDITIONS	Combustion and Environmental Engineering	Environmental Engineering	oral
Israel Rêgo	56	DESIGN OF THE GENERIC SCRAMJET COMBUSTION CHAMBER	Aerospace Engineering	Propulsion	oral
Israel Rêgo	72	DESIGN OF AN ACADEMIC SCRAMJET FOR ATMOSPHERIC CAPTIVE FLIGHT AT MACH NUMBER 4.18 COUPLED TO A ROCKET FTI	Aerospace Engineering	Propulsion	poster
Israel Rêgo	74	A NEW APPROACH TO OPTIMIZE THE SCRAMJET INLET DESIGN APPLYING THE TOTAL PRESSURE RECOVERY	Aerospace Engineering	Propulsion	poster

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Israel Rêgo	107	NUMERICAL ANALYSIS OF A GENERIC SCRAMJET AIR INLET	Aerospace Engineering	Propulsion	poster
Israel Rêgo	177	THERMAL ANALYSIS OF THE GENERIC SCRAMJET FLYING AT 30 KM ALTITUDE WITH MACH NUMBER 6.8	Aerospace Engineering	Propulsion	oral
Israel Rêgo	181	CHEMICAL REACTIONS MODEL APPLIED TO SUPERSONIC COMBUSTION	Aerospace Engineering	Propulsion	oral
Israel Rêgo	186	PRELIMINARY THERMAL PROTECTION SYSTEM FOR THE 14-X S SCRAMJET TECHNOLOGICAL DEMONSTRATOR FOR ATMOSPHERIC FLIGHT AT 30 KM ALTITUDE AND SPEED CORRESPONDING TO MACH NUMBER 7	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
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Israel Rêgo	219	SU ² CFD simulation of the Hypersonic Technological Demonstrator 14-X B at flight Mach number 7	Aerospace Engineering	Propulsion	poster
Israel Rêgo	462	HEAT FLUX AND THERMODYNAMIC PROPERTIES ANALYSIS AT THE STAGNATION POINT AND THE BLUNT REGION OF THE 14-X S SCRAMJET ENGINE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Israel Rêgo	751	DESIGN AND ANALYSIS OF A GENERIC SCRAMJET AIR INLET	Aerospace Engineering	Propulsion	poster
Israel Rêgo	789	Aerodynamic analysis of a scramjet for atmospheric flight	Aerospace Engineering	Propulsion	poster
Israel Rêgo	817	EQUILIBRIUM AND PERFECT GAS AIR BEHAVIOR IN THE STAGNATION REGION	Aerospace Engineering	Propulsion	poster
Ítalo Bezerra	181	CHEMICAL REACTIONS MODEL APPLIED TO SUPERSONIC COMBUSTION	Aerospace Engineering	Propulsion	oral
Ítalo Madeira	80	APPLICATION OF WAF-TVD SCHEME FOR WATER HAMMER EQUATIONS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
ivan fernney ibanez aguilar	270	NUMERICAL SIMULATION OF FLOW IN A PATIENT WITH ASCENDING AORTIC ANEURYSM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Ivana de Fátima Braga	53	COLD STORAGE CHAMBER DESIGN FOR FISHING BOATS IN THE REGION OF SALGADO, AMAZON	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Ivi Silva	797	EFFECTS OF O3 ADDITION ON AMMONIUM PERCHLORATE-BASED SOLID PROPELLANT COMBUSTION	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Ivo Zatti Lima Meyer	591	DESIGN AND APPLICATION OF A DIDACTIC PLATFORM FOR HEAT TRANSFER PRACTICE CLASSES	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Ivo Zatti Lima Meyer	689	EXPERIMENTAL STUDY OF A VAPOR COMPRESSION CYCLE PERFORMANCE BEHAVIOR	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Ivo Zatti Lima Meyer	782	CASE STUDIES OF PHOTOVOLTAIC CELL APPLIANCES AND ALTERNATIVE ENERGY PRODUCTION METHODS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Ivonete Ávila	356	THERMOCHEMICAL EQUILIBRIUM MODELING FOR AIR GASIFICATION OF WASTE TIRES	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster
Ivonete Ávila	572	ENERGY ASSESSMENT OF TORREFACTION OF SUGARCANE BAGASSE	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Ivonete Ávila	579	COMPARATIVE STUDY OF TORREFACTION OF BRAZILIAN LIGNOCELLULOSIC BIOMASSES	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Ivonete Ávila	704	STUDY OF THE REDUCTION OF THE SERPENTINITOS PARTICLE SIZE TO INCREASE THE EFFICIENCY OF THE PROCESSES OF MINERAL CARBONATION	Combustion and Environmental Engineering	Environmental Engineering	poster
Jackson Silva	665	A SIMPLIFIED METHOD FOR THE COMPUTATION OF THE PREMIXED MODE HEAT RELEASE IN DI DIESEL ENGINES	Combustion and Environmental Engineering	Engine Combustion	oral
Jakeline Osowski Tomazi	832	ENERGY PENALTY MODEL FOR FLUE GAS DESULFURIZATION SYSTEMS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Jamily Stocco	618	MATHEMATICAL MODELING OF POLLUTANT DISPERSION AROUND AN ISOLATED OBSTACLE UNDER DIFFERENT ATMOSPHERIC STABILITY CONDITIONS	Combustion and Environmental Engineering	Environmental Engineering	oral
Janaina de Oliveira Castro Silva	3	EXPERIMENTAL EVALUATION OF A SMALL SOLAR UPDRAFT TOWER	Combustion and Environmental Engineering	Environmental Engineering	poster
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Jaqueline Diniz da Silva	396	EXPERIMENTAL STUDY OF SILICA GEL ADSORPTION MECHANISMS FOR DESICCANT COOLING SYSTEMS	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	oral
Javier Aliaga Rivera	459	SIMULATION OF AIR POLLUTANTS DISPERSION IN THE MICRO REGION OF THE MUNICIPALITY OF RIO DE JANEIRO IN REAL SCALE	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Jean Barbosa	28	EXPERIMENTAL DETERMINATION OF FLAMMABILITY LIMITS OF FARNESANE, JET FUEL AND MIXES AT ATMOSPHERIC PRESSURE IN AIR	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Jean Michael Borges de Oliveira	473	STUDY OF PARAMETERS OF A MULTIGRID METHOD FOR A NEW APPROACH USING SIMPLEC PRESSURE-VELOCITY COUPLING	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Jean-Michel HERRI	491	Revisited Model for Inward and Outward Growth of Gas Hydrate Particles in Water-in-Oil Emulsions	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral

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Jefferson Gomes do Nascimento	294	NUMERICAL ANALYSIS OF THE DIAGRAM FOR THE OPERATION OF A BIPHASIC CIRCUIT WITH PUMPING EFFECTS BY CAPILLARITY USIGN TWO EVAPORATORS IN PARALLEL	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Jefferson Gomes do Nascimento	816	ANALYTICAL SOLUTION OF ONE-DIMENSIONAL TRANSIENT PENNES'BIOHEAT TRANSFER EQUATION IN CARTESIAN COORDINATES USING GREEN FUNCTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Jefferson Gomes do Nascimento	816	EXPERIMENTAL ESTIMATION OF THE LOCATION AND INTENSITY OF A HEAT SOURCE FROM SURFACE TEMPERATURES USING THE SEQUENTIAL METHOD	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Jessé Padilha	210	Construction of a Didactical Workbench for a Performance Analysis of a Heat Exchanger Contracorrent Hub	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Jessé Padilha	212	STATISTICAL ANALYSIS OF THE ACCURACY OF EMPIRICAL LOSS OF LOAD EQUATION	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Jessica Martha Nunes	497	BOILING HEAT TRANSFER BEHAVIOR FOR NANOCOATED SURFACES UNDER CONFINED CONDITIONS	Nano and Microfluidic and Micro-Systems	Micro and Nanofluidics	oral
Jésus Fernandes Júnior	320	NUMERICAL STUDY OF A FLOW AROUND TWO CIRCULAR CYLINDERS IN A WIND TUNNEL	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Jésus Fernandes Júnior	320	NUMERICAL STUDY OF A FLOW AROUND TWO CIRCULAR CYLINDERS IN A WIND TUNNEL	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
jhon goulart	565	NUMERIC SIMULATION OF TURBULENT FLOW DEVELOPMENT IN AN ECCENTRIC CHANNEL WITH CONVECTIVE HEAT TRANSFER	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Jhonatan andres aguirre manco	455	Mixing Layer Stability Analysis With Strong Temperature Gradients	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Joana Freitas Campana	503	EFFECT OF FUEL MOISTURE AND AIRFLOW RATE ON COMBUSTION CHARACTERISTICS OF COCONUT SHELL IN A FIXED BED	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Joana Freitas Campana	504	EFFECT OF MOISTURE AND PARTICLE SIZE ON THE COMBUSTION CHARACTERISTICS OF SEWAGE SLUDGE IN A FIXED BED	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Joana Freitas Campana	715	USE OF DIFFERENTIAL EQUATIONS TO MEASURE THE POWER LOSS IN SLIDING BEARINGS WITH DIFFERENT LUBRICATING OILS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Joana Trindade	65	TEMPERATURE EVOLUTION INSIDE A CAPSULE CONTAINING PHASE CHANGE MATERIAL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Joanyson Pereira	212	STATISTICAL ANALYSIS OF THE ACCURACY OF EMPIRICAL LOSS OF LOAD EQUATION	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
João Fabrício Manoel	621	EXPERIMENTAL INVESTIGATION OF THE FUEL DROPLETS EVAPORATION FOR BLENDED FUELS	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
João Fabrício Manoel	728	A COMPARISON BETWEEN TWO DIFFERENT CONFIGURATION RADIANT POROUS BURNER FOR PREMIXED COMBUSTION	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
João Arthur Daconti Silva	3	EXPERIMENTAL EVALUATION OF A SMALL SOLAR UPDRAFT TOWER	Combustion and Environmental Engineering	Environmental Engineering	poster
João Arthur Daconti Silva	615	A Review on solar organic rankine cycles technologies	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
João Arthur Daconti Silva	710	MODELING OF AN ORGANIC RANKINE CYCLE FOR LOW TEMPERATURE HEAT SOURCES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
João Arthur Daconti Silva	716	Evaluation of the Influence of Ambient Temperature on the Performance Coefficient of a Refrigeration Cycle by Single Pressure Absorption	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
João Baptista Dias Moreira	776	TOPOLOGICAL OPTIMIZATION OF DISCRETIZED FLUID-STRUCTURE SYSTEMS WITH UNSTRUCTURED MESHES	Aerospace Engineering	Propulsion	oral
João Batista Campos Silva	769	ANALYSIS OF RADIATORS IN VEHICLES COOLING SYSTEM OF SAE FORMULA	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
João Batista Campos Silva	786	THERMAL ANALYSIS OF A PHOTOVOLTAIC SYSTEM WITH SOLAR TRACKING MIRRORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
João Carlos Teles Ribeiro da Silva	460	Assessment of airfoils for a UAV for pulverization application	Aerospace Engineering	Aerodynamics	poster
João Carvalho	93	EVALUATION OF COMMERCIAL ORGANIC FLUIDS FOR WASTE HEAT RECOVERY	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
João Carvalho	593	PROPAGATION OF ANHYDROUS ETHANOL-AIR FLAMES WITH DISTINCT EQUIVALENCE RATIOS AT SUB-ATMOSPHERIC PRESSURE	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
João Carvalho	745	ENERGY SAVING IN THE STEAM SYSTEM AND CONDENSATE RECOVERY IN THE HEALTH INDUSTRY	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
João Carvalho	791	FLAMES DYNAMICS OF BLUFF-BODY-STABILIZED IN LEAN PREMIXED STOICHIOMETRIC SYNGAS/AIR	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster
Joao Duarte	543	Thermal comparison between a domestic oven with and without alumina.	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Joao Duarte	645	THERMAL EFFICIENCY ANALYSIS OF A LPG WATER HEATER	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Joao Duarte	673	Boiling comparative analysis in metallic container and vitreous container	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Joao Duarte	714	FLOW MACHINE WITH EXTERNAL COMBUSTION, AIR DRAG	Combustion and Environmental Engineering	Engine Combustion	poster

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João Felipe de Araujo Martos	72	DESIGN OF AN ACADEMIC SCRAMJET FOR ATMOSPHERIC CAPTIVE FLIGHT AT MACH NUMBER 4.18 COUPLED TO A ROCKET FTI	Aerospace Engineering	Propulsion	poster
João Felipe de Araujo Martos	74	A NEW APPROACH TO OPTIMIZE THE SCRAMJET INLET DESIGN APPLYING THE TOTAL PRESSURE RECOVERY	Aerospace Engineering	Propulsion	poster
João Felipe de Araujo Martos	181	CHEMICAL REACTIONS MODEL APPLIED TO SUPERSONIC COMBUSTION	Aerospace Engineering	Propulsion	oral
João Felipe de Araujo Martos	751	DESIGN AND ANALYSIS OF A GENERIC SCRAMJET AIR INLET	Aerospace Engineering	Propulsion	poster
Joao Fonseca	207	EVALUATION OF AN ARTIFICIAL NEURAL NETWORK MODEL COMPARED WITH A REGRESSION MODEL TO ESTIMATE THE STEAM FLOW GENERATION OF A REAL THERMOELECTRIC POWER PLANT DATA	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
João Gabriel Bezerra da Silva	126	CALIBRATION OF THERMOCOUPLE TYPE TEMPERATURE SENSORS BY COMPARISON WITH STANDARD INSTRUMENT USING LINEAR REGRESSION MATH METHOD	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
João Gabriel Bezerra da Silva	363	Analysis of the Specific Fuel Consumption of a Diesel Generator Set Influenced by the Cooling Fluid Temperature.	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
João Gabriel Bezerra da Silva	373	IMPACTS ON THE PARAMETERS OF WIEBE FUNCTION WITH LOAD VARIATION IN COMPRESSION IGNITION ENGINES	Combustion and Environmental Engineering	Engine Combustion	poster
Joao Gabriel Soares	558	REPOWERING ANALYSIS OF THE GARGAÚ WIND POWER PLANT	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
João L M Donatelli	571	THERMOECONOMIC OPTIMIZATION OF ABSORPTION CHILLER SUPERSTRUCTURES FOR AN INTERNAL COMBUSTION ENGINE; WASTE HEAT RECOVERY AND COLD-WATER APPLICATIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
João L M Donatelli	578	OPTIMIZATION OF THE WASTE HEAT RECOVERY SUPERSTRUCTURES FOR LARGE STATIONARY DIESEL ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
João Lucas Correia Barbosa de Farias	193	UFRN'S INWARD ACADEMIC SCRAMJET COUPLED TO FTI ROCKET MOTOR TO DEMONSTRATE SUPERSONIC COMBUSTION	Aerospace Engineering	Propulsion	poster
João Lucas Lobato Soares	798	BEHAVIOR ANALYSIS SIMULATION OF SOLID PROPELLANT ROCKET ENGINE.	Aerospace Engineering	Propulsion	poster
João Lucas Lobato Soares	830	ACQUISITION OF THERMOCOUPLE DATA BY ARDUINO® MICROCONTROLLERS	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
João Luiz F. Azevedo	404	NEARLY-ORTHOGONAL GRID GENERATION METHOD BASED UPON INHOMOGENOUS ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
João Luiz F. Azevedo	421	INFLUENCE OF THE STAGNATION PRESSURE RATIO ON THE ONSET OF RECIRCULATION ZONES IN INVISCID SUPERSONIC FLOWS	Aerospace Engineering	Aerodynamics	oral
João Luiz F. Azevedo	424	A STUDY ON THE INFLUENCE OF RHEOLOGY MODEL IN A CONSTRICTED CHANNEL FLOW	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
João Luiz F. Azevedo	426	Study of Aerodynamic Flows Using Unstructured Grids and a Correlation-Based Transition Model	Aerospace Engineering	Aerodynamics	oral
João Luiz F. Azevedo	478	NUMERICAL INVESTIGATION OF WEAKLY IONISED GAS EFFECTS ON THE SARA CAPSULE	Aerospace Engineering	Aerodynamics	oral
João Luiz F. Azevedo	684	RANS HYPERSONIC FLOW SIMULATIONS OVER REENTRY CAPSULES	Aerospace Engineering	Aerodynamics	oral
João Luiz Wenzel	428	Velocity fields of grains over barchan dunes	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
João Marcos Gomes Vieira	92	TRANSIENT ANALYSIS OF A HEAT PUMP SOLAR EVAPORATOR THROUGH A TEMPERATURE STEP	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
João Marcos Gomes Vieira	94	INTEGRATION OF A CONCENTRATED SOLAR POWER PLANT, A SUGAR-CANE BIORREFINERY AND A BIODIGESTION PLANT	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
João Marcos Gomes Vieira	109	EXPERIMENTAL ANALYSIS OF THE OPERATION CONTROL OF A REFRIGERATING MACHINE	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
João Marcos Gomes Vieira	150	THEORETICAL STUDY OF A DIRECT STEAM GENERATION POWER PLANT WITH PARABOLIC TROUGH COLLECTORS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
João Marcos Gomes Vieira	591	DESIGN AND APPLICATION OF A DIDACTIC PLATFORM FOR HEAT TRANSFER PRACTICE CLASSES	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
João Marcos Gomes Vieira	689	EXPERIMENTAL STUDY OF A VAPOR COMPRESSION CYCLE PERFORMANCE BEHAVIOR	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
João Marcos Gomes Vieira	690	ANALYSIS OF THE AIR CONDITIONING SYSTEM OF A DATA CENTER USING THERMOGRAPHY AND CFD	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
João Paulo Tavares Cantagallo	163	COGENERATION SYSTEM APPLIED IN BIODIESEL PRODUCTION: ENERGY, EXERGY AND ECONOMICAL ANALYSIS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
João Pedro Duveen da Cunha	701	COMMERCIAL AND RESIDENTIAL TECHNO-ECONOMIC ANALYSIS OF A GRID-CONNECTED PV SYSTEM – RIO DE JANEIRO'S CASE STUDY	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	oral

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João Pedro Vieira Barbosa	579	COMPARATIVE STUDY OF TORREFACTION OF BRAZILIAN LIGNOCELLULOSIC BIOMASSES	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
João Souza	801	NUMERICAL SIMULATION OF THE BUBBLE PEN PHENOMENON	Fluid Mechanics and Rheology	Multi-phase Flow	poster
João Vital Silva	377	Towards the development of a test-fluid for isothermal laboratory tests at low-shear rate in sugar and ethanol industry	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
João Zago	769	ANALYSIS OF RADIATORS IN VEHICLES COOLING SYSTEM OF SAE FORMULA	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Joel Karp	454	EXPERIMENTAL HYDRODYNAMICS OF INTERACTING GAS BUBBLES AND OIL DROPLETS: ATTACHMENT PHENOMENA	Fluid Mechanics and Rheology	Multi-phase Flow	oral
John Sousa	366	COMPARISON BETWEEN SOLAR TRACKING SYSTEMS DEVELOPED FROM MATHEMATICAL MODELS OF SOLAR GEOMETRY AND LDR SENSORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
John Sousa	387	OPTIMIZATION AND EXERGETIC ANALYSIS OF A REGENERATIVE CYCLE USING BIOGAS COMBINED WITH HYDROGEN AS FUEL	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
John Chew	500	Direct numerical simulation of vacillation in centrifugal convection	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Jônatas Ferreira Lacerda	568	Numerical Modeling of a Domestic Vapor Compression Refrigeration System and Determination of Refrigerant Charge	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Jonatha Araújo	56	DESIGN OF THE GENERIC SCRAMJET COMBUSTION CHAMBER	Aerospace Engineering	Propulsion	oral
Jonatha Araújo	72	DESIGN OF AN ACADEMIC SCRAMJET FOR ATMOSPHERIC CAPTIVE FLIGHT AT MACH NUMBER 4.18 COUPLED TO A ROCKET FTI	Aerospace Engineering	Propulsion	poster
Jonatha Araújo	107	NUMERICAL ANALYSIS OF A GENERIC SCRAMJET AIR INLET	Aerospace Engineering	Propulsion	poster
Jonatha Araújo	177	THERMAL ANALYSIS OF THE GENERIC SCRAMJET FLYING AT 30 KM ALTITUDE WITH MACH NUMBER 6.8	Aerospace Engineering	Propulsion	oral
Jonatha Araújo	193	UFRN'S INWARD ACADEMIC SCRAMJET COUPLED TO FTI ROCKET MOTOR TO DEMONSTRATE SUPERSONIC COMBUSTION	Aerospace Engineering	Propulsion	poster
Jonatha Araújo	751	DESIGN AND ANALYSIS OF A GENERIC SCRAMJET AIR INLET	Aerospace Engineering	Propulsion	poster
Jonatha Araújo	789	Aerodynamic analysis of a scramjet for atmospheric flight	Aerospace Engineering	Propulsion	poster
Jonathan Galdino	533	Effects of solubility on kick detection and pressure transmission	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Jordan Deambrosio Cussuol	715	USE OF DIFFERENTIAL EQUATIONS TO MEASURE THE POWER LOSS IN SLIDING BEARINGS WITH DIFFERENT LUBRICATING OILS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Jordana Colman	8	FORECASTING THE LENGTH OF THE UNDEVELOPED FLOW REGION IN THE INLET OF ASYMMETRIC BIFURCATIONS I	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	poster
Jordana Colman	9	FORECASTING THE LENGTH OF THE UNDEVELOPED FLOW REGION IN THE INLET OF ASYMMETRIC BIFURCATIONS II	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	poster
Jordana Oliveira Lyra	102	EFFECT OF THE AGING PROCESS ON THE PERFORMANCE OF ALOE VERA AS DRAG REDUCER	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Jordana Oliveira Lyra	104	EFFICIENCY OF ALOE ARBORESCENS AND ALOE BARBADENSIS SPECIES AS DRAG REDUCERS	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Jordana Oliveira Lyra	108	Drag Reduction by Biopolymers – Influence of Okra Variety and Maturity Index on Additive Efficiency	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Jorge Duarte Benthier	348	Influence of Hull Condition on Ship Emission: Study Case of a Panamax Vessel	Combustion and Environmental Engineering	Environmental Engineering	poster
Jorge Luiz Biazussi	448	EXPERIMENTAL INVESTIGATION OF PRESSURE DROP IN ELECTRICAL SUBMERSIBLE PUMP (ESP) TURNED OFF UNDER LIQUID SINGLE-PHASE AND GAS-LIQUID TWO-PHASE FLOW	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Jornandes Silva	518	NUMERICAL ANALYSIS OF THE STEAM REFORMING OF TOLUENE TO PRODUCE HYDROGEN IN A FIXED BED CATALYTIC REACTOR	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Jornandes Silva	537	SIMULATION OF THE AUTOTHERMAL REFORMING OF METHANE IN A FIXED BED MEMBRANE REACTOR FOR H2 PRODUCTION	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Jose Alberto Cuminato	430	A matrix solver approach for simulation of circular inhomogeneities by the Analytic Element Method	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
José Antônio Perrella Balestieri	133	COMBINED CYCLE THERMO-ECONOMIC MODELING WITH INLET AIR COOLING	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
José Carlos Cordeiro Junior	530	EXPERIMENTAL PHASE EQUILIBRIUM OF CARBON DIOXIDE HYDRATES WITH MEG ABOVE THE UPPER QUADRUPLE POINT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
José Carlos Escobar Palacio	806	Exergoeconomic analysis of conventional and advanced cogeneration systems for the Brazilian sugar and alcohol industry	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
José Carlos Escobar Palacio	806	Exergoeconomic analysis of conventional and advanced cogeneration systems for the Brazilian sugar and alcohol industry	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster

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José da Rocha Miranda Pontes	509	ANISOTROPIC TRANSPORT THROUGH POLYMER LAYER AND POROUS ARTERIAL WALL WITH BINDING IN DRUG-ELUTING STENTS USING THE FEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
José da Rocha Miranda Pontes	509	ANISOTROPIC TRANSPORT THROUGH POLYMER LAYER AND POROUS ARTERIAL WALL WITH BINDING IN DRUG-ELUTING STENTS USING THE FEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
José Daniel Hernández Vásquez	484	CRITERION FOR PRIORIZATION OF THE BRAZILIAN ECONOMY SECTORS VIS-À-VIS THE CONSUMPTION OF ENERGY AND GENERATING SOURCES	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
José Edmauro da Silva Junior	186	PRELIMINARY THERMAL PROTECTION SYSTEM FOR THE 14-X S SCRAMJET TECHNOLOGICAL DEMONSTRATOR FOR ATMOSPHERIC FLIGHT AT 30 KM ALTITUDE AND SPEED CORRESPONDING TO MACH NUMBER 7	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
José Joaquim Conceição Soares Santos	489	A COMPREHENSIVE THERMOECONOMIC DIAGRAM BASED ON BOTH SUBSYSTEM PRODUCTIVE PURPOSES AND PHYSICAL CONNECTIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
José Joaquim Conceição Soares Santos	571	THERMOECONOMIC OPTIMIZATION OF ABSORPTION CHILLER SUPERSTRUCTURES FOR AN INTERNAL COMBUSTION ENGINE; WASTE HEAT RECOVERY AND COLD-WATER APPLICATIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
José Joaquim Conceição Soares Santos	578	OPTIMIZATION OF THE WASTE HEAT RECOVERY SUPERSTRUCTURES FOR LARGE STATIONARY DIESEL ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
José Leôncio Fonseca de Souza	681	CFD VALIDATION OVER A CABIN-TYPE SOLAR DRYER USING ANSYS FLUENT SOFTWARE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
José Luiz Gasche	761	Effect of blood rheology model on hemodynamic parameters related to intracranial aneurysm rupture	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
José Luiz Horacio Faccini	381	COMPUTATIONAL SIMULATION OF TAYLOR BUBBLES MOTION IN A STAGNANT LIQUID INSIDE A VERTICAL COLUMN	Nuclear Engineering	Nuclear Engineering	oral
José Luz Silveira	10	Ecological aspects of electrolytic hydrogen: comparing renewable and non-renewable sources	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
José Luz Silveira	19	EVALUATION OF A COMPACT SYSTEM OF TRIGENERATION THROUGH ENERGY AND EXERGY ANALYSIS	Combustion and Environmental Engineering	Engine Combustion	oral
José Luz Silveira	163	COGENERATION SYSTEM APPLIED IN BIODIESEL PRODUCTION: ENERGY, EXERGY AND ECONOMICAL ANALYSIS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
José Luz Silveira	589	POTENTIAL OF BIOHYDROGEN PRODUCTION IN LANDFILLS OF THE CITY OF SÃO PAULO: ELECTROLYSIS X STEAM REFORM	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
JOSÉ PEREIRA	220	METHODS FOR PERFORMANCE PREDICTING AND SIZING OF MULTISTAGE CENTRIFUGAL COMPRESSORS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
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José Ricardo Ferreira Oliveira	444	DEVELOPMENT OF AN EXPERIMENTAL DEVICE FOR THERMAL DIFFUSIVITY IDENTIFICATION OF METALLIC ALLOYS USING A PERIODIC TEMPERATURE FIELD	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
José Ricardo Figueiredo	139	Performance of Finite Volume Discretization Schemes for the Convective-Diffusive Linear Transport Equation. Part I: Low Eigenvalue-Peclet Ratios.	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
José Ricardo Figueiredo	159	Performance of Finite Volume Discretization Schemes for the Convective-Diffusive Linear Transport Equation. Part II: High Eigenvalue-Peclet Ratios.	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
José Viriato Coelho Vargas	134	MATHEMATICAL MODELING OF A SOLID WASTE INCINERATION SYSTEM AND STEAM GENERATION	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
José Viriato Coelho Vargas	149	Modeling and Simulation of the Absorber of an Absorption Refrigeration System	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
José Viriato Coelho Vargas	224	MODELING AND SIMULATION OF THERMAL MANAGEMENT SYSTEMS OF ELECTRONIC EQUIPMENT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
José Viriato Coelho Vargas	238	MATHEMATICAL MODELING OF FRACTIONAL DISTILLATION OF MICROALGAE CRUDE OIL FOR PURE HYDROCARBON PRODUCTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Joseph Mouallem	17	EFFECT OF THE MACRO-SCALE TOPOLOGY OVER THE EFFECTIVE DRAG COEFFICIENT IN DENSE GAS-SOLID FLUIDIZED FLOWS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Joseph Mouallem	35	EFFECT OF THE FLOW MACRO-SCALE ON THE EFFECTIVE STRESSES IN DENSE GAS-SOLID FLUIDIZED FLOWS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Josuel Kruppa Rogenski	677	INFLUENCE OF CURVATURE VARIATIONS ON THE SECONDARY INSTABILITIES	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Josuel Kruppa Rogenski	825	Numerical study of the influence of spanwise wavelength on the evolution of Görtler vortices for unsteady disturbances	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Juan Antunes	365	Feasibility Study of the Implementation to a Solar Photovoltaic Power Plant with Solar Trackers in Itajubá, Minas Gerais	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral

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Juan Jose Cruz Villanueva	99	SOOT DISTRIBUTION IN TURBULENT BLUFF BODY NEAR WAKE NON PREMIXED FLAMES	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
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juan jose garcia pabon	92	TRANSIENT ANALYSIS OF A HEAT PUMP SOLAR EVAPORATOR THROUGH A TEMPERATURE STEP	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
juan jose garcia pabon	166	Prediction of heat transfer coefficient during condensation of R404a in helically coiled tubes using adaptive neuro-fuzzy inference system	Energy and Thermal Sciences	Numerical Heat Transfer	poster
juan jose garcia pabon	508	EXPERIMENTAL STUDY ON THE SINGLE-PHASE CONVECTIVE HEAT TRANSFER COEFFICIENT IN THE TUBE QUENCHING PROCESS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
juan jose garcia pabon	534	ENERGY OPTIMIZATION OF EXPERIMENTAL BENCH TEST FOR STUDY OF INTERNAL HEAT TRANSFER COEFICIENT IN QUENCHING BY IMMERSION OF TUBES	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Juanice Andrade	824	ANALYSIS OF HEAT AND MASS SIMULTANEOUS TRANSFER IN AQUEOUS SOLUTION DESCENDENT FLOW IN THE VAPOUR ABSORPTION PROCESS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Juanice Andrade	824	ANALYSIS OF HEAT AND MASS SIMULTANEOUS TRANSFER IN AQUEOUS SOLUTION DESCENDENT FLOW IN THE VAPOUR ABSORPTION PROCESS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Juarez Furtado	806	Exergoeconomic analysis of conventional and advanced cogeneration systems for the Brazilian sugar and alcohol industry	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Juarez Furtado	806	Exergoeconomic analysis of conventional and advanced cogeneration systems for the Brazilian sugar and alcohol industry	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Julia Maria Massareli Costa	435	ANALYSIS OF THE THERMAL EFFICIENCY OF A SOLAR THERMAL COLLECTOR FOR LOW-INCOME FAMILIES	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Julia Maria Massareli Costa	649	THERMAL ANALYSIS OF A TUBELESS FLAT-PLATE SOLAR COLLECTOR	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Julián Bravo-Castillero	757	INFLUENCE OF MAGNETO-ELECTRO-ELASTIC IMPERFECT CONTACT CONDITIONS IN THE THERMAL EFFECTIVE COEFFICIENTS OF LAMINATED COMPOSITES	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Julian Camilo Restrepo Lozano	467	DEVELOPMENT OF A COMPUTATIONAL MODEL FOR SIMULATION OF ORGANIC RANKINE CYCLES (ORC)	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Julian Esteban Barrera Torres	546	Exergy Analysis of a Multipurpose CCHP Layout Based on Natural Gas Engines for Application in the Tertiary Sector	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Juliana Damasceno da Cruz Gouveia de Carvalho	518	NUMERICAL ANALYSIS OF THE STEAM REFORMING OF TOLUENE TO PRODUCE HYDROGEN IN A FIXED BED CATALYTIC REACTOR	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Juliana Damasceno da Cruz Gouveia de Carvalho	537	SIMULATION OF THE AUTOTHERMAL REFORMING OF METHANE IN A FIXED BED MEMBRANE REACTOR FOR H2 PRODUCTION	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Juliana Loureiro	650	EXPERIMENTAL ANALYSIS OF TURBULENT SMOOTH AND ROUGH CHANNEL FLOWS	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
Juliana Pinto	186	PRELIMINARY THERMAL PROTECTION SYSTEM FOR THE 14-X S SCRAMJET TECHNOLOGICAL DEMONSTRATOR FOR ATMOSPHERIC FLIGHT AT 30 KM ALTITUDE AND SPEED CORRESPONDING TO MACH NUMBER 7	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Juliana Pohlmann	678	EXPERIMENTAL AND NUMERICAL INVESTIGATION OF COAL DEVOLATILIZATION IN A DTF	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster
Julio Antunes	19	EVALUATION OF A COMPACT SYSTEM OF TRIGENERATION THROUGH ENERGY AND EXERGY ANALYSIS	Combustion and Environmental Engineering	Engine Combustion	oral
Julio Cesar Gontijo	544	NUMERICAL INVESTIGATION OF THE DIFFUSION ABSORPTION CYCLE TO PRODUCE COLD USING SOLAR ENERGY AS SOURCE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Julio Militzer	761	Effect of blood rheology model on hemodynamic parameters related to intracranial aneurysm rupture	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Júlio Passos	563	CHARACTERISTICS OF THE USE OF CO2 IN CASCADE REFRIGERATION SYSTEMS AND FOR POWER GENERATION IN BRAYTON CYCLES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Jurandir Sousa	210	Construction of a Didactical Workbench for a Performance Analysis of a Heat Exchanger Contracorrent Hub	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Jurandir Sousa	212	STATISTICAL ANALYSIS OF THE ACCURACY OF EMPIRICAL LOSS OF LOAD EQUATION	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Kaio Pandolfi Pessotti	503	EFFECT OF FUEL MOISTURE AND AIRFLOW RATE ON COMBUSTION CHARACTERISTICS OF COCONUT SHELL IN A FIXED BED	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Kaio Pandolfi Pessotti	504	EFFECT OF MOISTURE AND PARTICLE SIZE ON THE COMBUSTION CHARACTERISTICS OF SEWAGE SLUDGE IN A FIXED BED	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Kaique Leite	528	STUDY OF DIFFERENT METHODOLOGIES FOR INITIATION OF SLUG FLOW USING A LAGRANGIAN SLUG TRACKING MODEL	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Kamal Ismail	27	Numerical Study of a Cavity With and Without Radiation Including a Participating Wet Air	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Kamal Ismail	61	NUMERICAL STUDY OF A SOLAR LITHIUM BROMIDE-WATER ABSORPTION COOLING SYSTEM	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral

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Kamal Ismail	85	HEAT TRANSFER WITH PHASE CHANGE AROUND FINNED TUBE SUBMERSED IN PCM	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Kamal Ismail	96	NUMERICAL STUDY OF COUPLED NATURAL CONVECTION, CONDUCTION AND RADIATION HEAT TRANSFER FOR A TROMBE WALL CONFIGURATION	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Kamal Ismail	156	RECOVERY OF ENERGY AND WATER FROM SOLID WASTE AND DOMESTIC SEWAGE: STUDY CASE IN SÃO LUÍS - BRAZIL	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Kamal Ismail	392	Modeling and validation of solidification of pcm around a vertical bare tube	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Kamal Ismail	429	Aerodynamic assessment of Göttingen airfoil for application in small horizontal axis windmills	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Kamal Ismail	460	Assessment of airfoils for a UAV for pulverization application	Aerospace Engineering	Aerodynamics	poster
Karine Rui	69	RADIATIVE TRANSFER IN TWO-DIMENSIONAL ANISOTROPIC MEDIA: AN ANALYTICAL-NODAL FORMULATION	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Kássio Nogueira Cançado	534	ENERGY OPTIMIZATION OF EXPERIMENTAL BENCH TEST FOR STUDY OF INTERNAL HEAT TRANSFER COEFFICIENT IN QUENCHING BY IMMERSION OF TUBES	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
katia cordeiro	26	EVALUATING RANS TURBULENCE MODELS TO PREDICT THE AIRFLOW IN A DUCT BEND	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Kaynan Leal	801	NUMERICAL SIMULATION OF THE BUBBLE PEN PHENOMENON	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Kaynan Leal	809	LOSS OF PIPELINE PRESSURE WITH SINGLE-PHASE AND BIPHASIC	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Kelvin Chen	259	CFD Modeling of Printed Circuit Heat Exchanger for Supercritical CO ₂ -CO ₂ and Air-Water	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Kevin de Conde	404	NEARLY-ORTHOGONAL GRID GENERATION METHOD BASED UPON INHOMOGENOUS ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Kilder Fagundes	458	ANALYSIS OF THE COMBUSTION PROCESS IN AN ENGINE ADAPTED WITH PRE-CHAMBER USING A ZERO DIMENSIONAL NUMERICAL MODEL AND A THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Kilder Fagundes	725	ANALYSIS OF THE COMBUSTION PROCESS IN AN ENGINE ADAPTED WITH PRE-CHAMBER USING A ZERO DIMENSIONAL NUMERICAL MODEL AND A THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
kleber cezar	831	TESTS OF ARRANGEMENT IN A PROTOTYPE OF A STEAM GENERATOR IN AN ABSORPTION REFRIGERATION SYSTEM	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
L. Enrique Ortiz-Vidal	630	EXPERIMENTAL EVALUATION OF EFFICIENCY OF GAS SEPARATION IN AN INVERTED-SHROUD GAS-LIQUID SEPARATOR IN VERTICAL POSITION	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Laison Junio da Silva Furlan	826	An Algorithm for Solving an Implicit Solution for Fully Developed Flow in a Channel of a Giesekus Fluid	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Lara Werncke Vieira	832	ENERGY PENALTY MODEL FOR FLUE GAS DESULFURIZATION SYSTEMS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Larissa Santos Queiroz	764	Application of Optimization Techniques to Prediction of Parameters Wiebe Function in a Diesel Generator Set	Combustion and Environmental Engineering	Engine Combustion	poster
Larissa Santos Queiroz	780	EFFECTS OF THE ADDITION OF HYDROGEN IN THE DIESEL ENGINE ADMISSION AIR CONSUMING FUEL B7 - NUMERICAL AND EXPERIMENTAL APPROACH	Combustion and Environmental Engineering	Engine Combustion	poster
Larissa Santos Queiroz	790	PERFORMANCE ANALYSIS OF A DIESEL ENGINE OPERATING WITH TERNARY MIXTURES OF DIESEL, BIODIESEL AND ETHANOL.	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Larissa Santos Queiroz	795	DEVELOPMENT OF AN EXPERIMENTAL BENCH FOR THE REALIZATION OF TESTS IN DIESEL GENERATOR SETS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Larissa Domingues Lemos	40	Comparison of the Gray-Gas and Weighted-Sum-of-Gray-Gases Models in a Non-Premixed Methane-air Flame Considering the Turbulence-Radiation Interaction	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Larissa Krambeck	481	THICKNESS INFLUENCE OF THE COPPER POWDER SINTERED CAPILLARY STRUCTURE IN THE THERMAL PERFORMANCE OF HEAT PIPES	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Larissa Marques	677	INFLUENCE OF CURVATURE VARIATIONS ON THE SECONDARY INSTABILITIES	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Larissa Nunes	696	NUMERICAL STUDY OF TEMPERATURE DEPENDENT VISCOPLASTIC FLUIDS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Larissa Santos	732	SOLAR PHOTOVOLTAIC ON GRID INSTALLATION: PROJECT, LEGAL ASPECTS, ACTUAL DATA AND ECONOMIC VIABILITY	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Laryssa Abdala	520	A First Approach for an Exergy Analysis of the Human Heart With a Pathology	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Lauber Martins	453	REVIEW ON MARKET TRENDS AND SYNGAS USABILITY IN FUEL CELLS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Laurivan da Silva Diniz	197	SOLUTION FOR THE CALCULATION OF THE DISTRIBUTION OF CONCENTRATION IN PROPAGATION OF CONTAMINANTS IN SANITARY LANDFILL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Lavinia Pieta Schiessl	214	INFLUENCE OF SHEAR HISTORY ON THE RHEOLOGICAL BEHAVIOR AND CRISTAL MORPHOLOGY OF WAXY OILS	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Leandro Alcoforado Sphaier	73	CHEMICALLY REACTING PROBLEMS BY MICHAELIS-MENTEN KINETICS TYPE WITH INTEGRAL TRANSFORMS TREATMENT	Energy and Thermal Sciences	Numerical Heat Transfer	oral

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Leandro Alcoforado Sphaier	73	CHEMICALLY REACTING PROBLEMS BY MICHAELIS-MENTEN KINETICS TYPE WITH INTEGRAL TRANSFORMS TREATMENT	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Leandro Alcoforado Sphaier	396	EXPERIMENTAL STUDY OF SILICA GEL ADSORPTION MECHANISMS FOR DESICCANT COOLING SYSTEMS	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	oral
LEANDRO AVELLAR	489	A COMPREHENSIVE THERMOECONOMIC DIAGRAM BASED ON BOTH SUBSYSTEM PRODUCTIVE PURPOSES AND PHYSICAL CONNECTIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Leandro Coelho	234	OPTIMIZATION OF DOUBLE PIPE-HEAT EXCHANGER WITH SINGLE SEGMENTAL PERFORATED BAFFLES	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Leandro Figueiredo	694	CONSTRUCTION OF A BASIC REFRIGERATION SYSTEM SIMULATOR	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Leandro Figueiredo	743	Manufacturing and analysis of an alpha type Stirling engine prototype	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Leandro Franco de Souza	229	DOES THE INTRINSIC THREE-DIMENSIONALIZATION OF LAMINAR SEPARATION BUBBLES ENHANCE ITS AMPLIFIER CHARACTER?	Aerospace Engineering	Aerodynamics	oral
Leandro Franco de Souza	677	INFLUENCE OF CURVATURE VARIATIONS ON THE SECONDARY INSTABILITIES	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Leandro Franco de Souza	825	Numerical study of the influence of spanwise wavelength on the evolution of Görtler vortices for unsteady disturbances	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Leandro Franco de Souza	826	An Algorithm for Solving an Implicit Solution for Fully Developed Flow in a Channel of a Giesekus Fluid	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Leandro Franco de Souza	827	Performance Analysis of a Parallel Code for Laminar-Turbulent Transition Studies	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Leandro M. Fernandes	785	Numerical Simulations of a Rocket Engine Internal Flow	Aerospace Engineering	Propulsion	poster
LEANDRO MARQUES	357	BLOOD FLOW DYNAMICS SIMULATION IN CORONARY ARTERY WITH DRUG-ELUTING STENT USING FINITE ELEMENT METHOD	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Leo Sperandio Dias Gonçalves	219	SU ² CFD simulation of the Hypersonic Technological Demonstrator 14-X B at flight Mach number 7	Aerospace Engineering	Propulsion	poster
Leon Matos Ribeiro de Lima	658	DYNAMIC CHARACTERISTICS OF A NATURAL CIRCULATION LOOP WITH COOLER INTEGRATED TO A POOL WITH EVAPORATION	Nuclear Engineering	Nuclear Engineering	oral
Leon Matos Ribeiro de Lima	730	Influence of wall friction factor and local loss models on the prediction of pressure drop in a steam line	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	poster
Leonardo Alexis Flores Tymchuk	195	Numerical and experimental characterization of subsonic flow around a circular cylinder: wind tunnel measurement capabilities and turbulence models suitability	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
LEONARDO ARAUJO	571	THERMOECONOMIC OPTIMIZATION OF ABSORPTION CHILLER SUPERSTRUCTURES FOR AN INTERNAL COMBUSTION ENGINE; WASTE HEAT RECOVERY AND COLD-WATER APPLICATIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
LEONARDO ARAUJO	578	OPTIMIZATION OF THE WASTE HEAT RECOVERY SUPERSTRUCTURES FOR LARGE STATIONARY DIESEL ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Leonardo Brito Kothe	63	NUMERICAL ANALYSIS OF COOLING OF ELECTRONIC COMPONENTS BY HEATSINKS WITH MICROCHANNELS	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Leonardo Cavalheiro Martinez	134	MATHEMATICAL MODELING OF A SOLID WASTE INCINERATION SYSTEM AND STEAM GENERATION	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Leonardo Cavalheiro Martinez	149	Modeling and Simulation of the Absorber of an Absorption Refrigeration System	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Leonardo Cavalheiro Martinez	224	MODELING AND SIMULATION OF THERMAL MANAGEMENT SYSTEMS OF ELECTRONIC EQUIPMENT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Leonardo Cavalheiro Martinez	238	MATHEMATICAL MODELING OF FRACTIONAL DISTILLATION OF MICROALGAE CRUDE OIL FOR PURE HYDROCARBON PRODUCTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Leonardo Diniz	232	EVALUATION OF THE INFLUENCE OF SOLAR RADIATION IN THE EFFICIENCY OF FLAT PLATE COLLECTORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Leonardo Donatti	513	IMPLEMENTATION OF THE FLAMELET-GENERATED-MANIFOLD FOR PREMIXED LAMINAR FLAMES WITH HEAT LOSS	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Leonardo Fonseca Lana	765	NUMERICAL STUDY OF THE FLOW AROUND A CIRCULAR BODY INSERTED IN A WIND TUNNEL FOR LOW NUMBERS OF REYNOLDS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Leonardo Manetti	719	POROUS AND NON-POROUS MICROSTRUCTURED SURFACES FOR BOILING HEAT TRANSFER APPLICATIONS	Nano and Microfluidic and Micro-Systems	Heat and Mass Transfer in Micro and Nano scales	oral
Leonardo Motta Maia de Oliveira Carvalho	426	Study of Aerodynamic Flows Using Unstructured Grids and a Correlation-Based Transition Model	Aerospace Engineering	Aerodynamics	oral
Leonardo Santos de Brito Alves	233	TOWARDS A QUALITATIVE CRITERIA FOR THE ONSET OF ABSOLUTE INSTABILITY ON REVERSED-FLOW BOUNDARY-LAYER PROFILES	Aerospace Engineering	Aerodynamics	oral

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Leonardo Santos de Brito Alves	386	Three-Dimensional instability analysis in a porous medium with inclined temperature gradient and horizontal and vertical throughflow	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Leonardo Santos de Brito Alves	468	UNSTABLE TRANSVERSE ROLLS INDUCED BY VISCOUS DISSIPATION FOR A THIN FILM FLOW	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	oral
Leonardo Santos de Brito Alves	602	STABILITY OF A RAYLEIGH-BENARD POISEUILLE FLOW CONSIDERING A CARREAU FLUID	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Leonardo Sonogo Hatschbach	347	THERMODYNAMIC MODELLING OF A POWER GENERATION STEAM ENGINE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Leonardo Victor Silva Martins	508	EXPERIMENTAL STUDY ON THE SINGLE-PHASE CONVECTIVE HEAT TRANSFER COEFFICIENT IN THE TUBE QUENCHING PROCESS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Leonardo Zimmer	513	IMPLEMENTATION OF THE FLAMELET-GENERATED-MANIFOLD FOR PREMIXED LAMINAR FLAMES WITH HEAT LOSS	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Leslie D. Pérez-Fernández	757	INFLUENCE OF MAGNETO-ELECTRO-ELASTIC IMPERFECT CONTACT CONDITIONS IN THE THERMAL EFFECTIVE COEFFICIENTS OF LAMINATED COMPOSITES	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Letícia Colletta	147	ENERGETIC ANALYSIS OF TROPICAL BIOMASS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Letícia Kaufmann	277	NUMERICAL SIMULATION FOR REDUCED CHEMICAL KINETIC MECHANISM: A CASE FOR CARBON MONOXIDE AND HYDROGEN	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Letícia Piton	143	EXPERIMENTAL STUDY OF THE INFLUENCE OF THE SWIRL NUMBER ON LEAN PREMIXED COMBUSTION REGIMES	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Levy Bertoleti	635	EXPERIMENTAL PHASE EQUILIBRIUM FOR METHANE HYDRATES IN INHIBITED SYSTEMS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Levy Jacob	645	THERMAL EFFICIENCY ANALYSIS OF A LPG WATER HEATER	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Levy Jacob	673	Boiling comparative analysis in metallic container and vitreous container	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Levy Jacob	714	FLOW MACHINE WITH EXTERNAL COMBUSTION, AIR DRAG	Combustion and Environmental Engineering	Engine Combustion	poster
Levy Jacob	714	FLOW MACHINE WITH EXTERNAL COMBUSTION, AIR DRAG	Combustion and Environmental Engineering	Engine Combustion	poster
Ligia Franco	41	Uncertainty Evaluation and Experimental Analysis for a Wind Tunnel as Reference to Gas Flare Flow Measurement	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
Lígia Froening	638	MASS-CONSISTENT MODEL FOR WIND RESOURCE ASSESSMENT FOR BRAZILIAN CASE – VALIDATION WITH DNS DATA	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Liliane Barichello	69	RADIATIVE TRANSFER IN TWO-DIMENSIONAL ANISOTROPIC MEDIA: AN ANALYTICAL-NODAL FORMULATION	Energy and Thermal Sciences	Numerical Heat Transfer	oral
LINDEMBERG FERREIRA DOS SANTOS	417	CUCKOO SEARCH ALGORITHM IN WIND ENERGY APPLICATION FOR A BRAZILIAN SITE	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
LINDEMBERG FERREIRA DOS SANTOS	425	HARMONY SEARCH ALGORITHM APPLIED TO WIND ENERGY: DETERMINATION OF WEIBULL CURVE PARAMETERS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
LINDEMBERG FERREIRA DOS SANTOS	733	IMPERIALIST COMPETITIVE ALGORITHM APPLIED TO WINDENERGY FOR A BRAZILIAN SITE AT PARAÍBA	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
LINDEMBERG FERREIRA DOS SANTOS	735	DETERMINATION OF WEIBULL CURVE PARAMETERS APPLIED TO WIND ENERGY BY PARTICLE SWARM OPTIMIZATION	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
LINDEMBERG FERREIRA DOS SANTOS	739	HEURISTIC METHODOLOGY APPLIED TO WIND ENERGY: DETERMINATION OF WEIBULL CURVE PARAMETERS BY ANT COLONY OPTIMIZATION	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
LINDEMBERG FERREIRA DOS SANTOS	744	MIGRATORY BIRDS OPTIMIZATION APPLIED TO WIND ENERGY FOR PETROLINA, BRAZIL	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Lindomar Matias Gonçalves	681	CFD VALIDATION OVER A CABIN-TYPE SOLAR DRYER USING ANSYS FLUENT SOFTWARE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Lino Wagner Castelo Branco Portela	822	PERFORMANCE CONTROL AND ANALYSIS OF A PARABOLIC SOLAR CONCENTRATOR USED FOR WATER HEATING	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Lis Nunes Soares	508	EXPERIMENTAL STUDY ON THE SINGLE-PHASE CONVECTIVE HEAT TRANSFER COEFFICIENT IN THE TUBE QUENCHING PROCESS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Lis Nunes Soares	534	ENERGY OPTIMIZATION OF EXPERIMENTAL BENCH TEST FOR STUDY OF INTERNAL HEAT TRANSFER COEFICIENT IN QUENCHING BY IMMERSION OF TUBES	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Lisandro Maders	513	IMPLEMENTATION OF THE FLAMELET-GENERATED-MANIFOLD FOR PREMIXED LAMINAR FLAMES WITH HEAT LOSS	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Lívia Mantuano Corrêa	84	Thermal Analysis of Heat Sinks in Solar Panels	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Lorena Lucia Bastos Bandeira	815	DETERMINATION OF THE DISTRIBUTION OF TEMPERATURES IN PERMANENT REGIME OF AN ELECTRONIC SYSTEM THROUGH FINITE DIFFERENCE	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Louriel Vilarinho	57	A NOVEL OPTIMIZATION METHODOLOGY APPLIED TO PARAMETERS OF HEAT SOURCES IN WELDING NUMERICAL SIMULATIONS	Energy and Thermal Sciences	Numerical Heat Transfer	oral

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Lourival Neto	743	Manufacturing and analysis of an alpha type Stirling engine prototype	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Lourival Filho	338	COOLING SIMULATION OF A CARBON-STEEL ABNT 1025 USING THE FINITE DIFFERENCES METHOD	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Luan Lamon Machado	785	Numerical Simulations of a Rocket Engine Internal Flow	Aerospace Engineering	Propulsion	poster
Luan Lenke de Paula	341	VIABILITY STUDY OF HELIOTHERMIC ENERGY GENERATION WITH PARABOLIC TROUGH CONCENTRATOR TECHNOLOGY AND THERMAL STORAGE SYSTEM FOR THE IFES CAMPUS SÃO MATEUS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Luan Lenke de Paula	815	DETERMINATION OF THE DISTRIBUTION OF TEMPERATURES IN PERMANENT REGIME OF AN ELECTRONIC SYSTEM THROUGH FINITE DIFFERENCE	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Iuany braga	754	METHODOLOGIES FOR MEASURING SPECIFIC CONSUMPTION FUE IN COMPRESSION IGNITION ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Iuany braga	801	NUMERICAL SIMULATION OF THE BUBBLE PEN PHENOMENON	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Luben Cabezas Gómez	523	Convection Study in a Square Cavity using Lattice Boltzmann Method	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Luben Cabezas Gómez	554	SIMULATION OF A SMALL SCALE ORGANIC RANKINE CYCLE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Luben Cabezas Gómez	568	Numerical Modeling of a Domestic Vapor Compression Refrigeration System and Determination of Refrigerant Charge	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Luben Cabezas Gómez	808	A NEW EMPIRICAL CORRELATION FOR FROST DENSITY PREDICTION OVER FLAT PLATE	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	oral
Lucas Carvalho	817	EQUILIBRIUM AND PERFECT GAS AIR BEHAVIOR IN THE STAGNATION REGION	Aerospace Engineering	Propulsion	poster
Lucas Divino Alves	109	EXPERIMENTAL ANALYSIS OF THE OPERATION CONTROL OF A REFRIGERATING MACHINE	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Lucas Freitas	126	CALIBRATION OF THERMOCOUPLE TYPE TEMPERATURE SENSORS BY COMPARISON WITH STANDARD INSTRUMENT USING LINEAR REGRESSION MATH METHOD	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Lucas Freitas	363	Analysis of the Specific Fuel Consumption of a Diesel Generator Set Influenced by the Cooling Fluid Temperature.	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Lucas Freitas	373	IMPACTS ON THE PARAMETERS OF WIEBE FUNCTION WITH LOAD VARIATION IN COMPRESSION IGNITION ENGINES	Combustion and Environmental Engineering	Engine Combustion	poster
Lucas Freitas	614	EXPERIMENTAL ANALYSIS IN A DIESEL GENERATOR SET CONSUMING FUEL B7, WITH HHO GAS INJECTION IN THE AIR OF ADMISSION	Combustion and Environmental Engineering	Engine Combustion	poster
Lucas Freitas	780	EFFECTS OF THE ADDITION OF HYDROGEN IN THE DIESEL ENGINE ADMISSION AIR CONSUMING FUEL B7 - NUMERICAL AND EXPERIMENTAL APPROACH	Combustion and Environmental Engineering	Engine Combustion	poster
Lucas Cercal Lazzaris	717	A Steady-state Model to Predict The Performance of Reciprocating Compressors in Household Refrigerators	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Lucas Frederico	811	A NUMERICAL INVESTIGATION OF ANGLE OF ATTACK EFFECTS ON AIRFOIL NOISE SECONDARY TONES	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Lucas Garcia Pereira	596	Experimental analysis of the start-up flow of viscous and viscoplastic fluids in pipelines	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Lucas Jardim	600	ESTIMATION OF THERMAL PROPERTIES USING THE SOBOL SEQUENCE AND MERSENNE TWISTER WITH THE TOPOGRAPHICAL GLOBAL OPTIMIZATION	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Lucas Marchi Pedro de Azevedo Silva	593	PROPAGATION OF ANHYDROUS ETHANOL-AIR FLAMES WITH DISTINCT EQUIVALENCE RATIOS AT SUB-ATMOSPHERIC PRESSURE	Combustion and Environmental Engineering	Combustion, Pyrolysis and Gasification of Solids and Liquids	oral
Lucas Moreira	809	LOSS OF PIPELINE PRESSURE WITH SINGLE-PHASE AND BIPHASIC	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Luciana Gonçalves	15	PELLETIZED BIOMASS FROM MUNICIPAL SOLID WASTES FOR USE AS SOLID FUEL	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Luciane Batistella	760	ANALYSIS OF MOISTURE ADSORPTION ISOTHERMS FOR ROASTED AND RAW BIOMASSES	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Luciano Araki	116	STUDY OF PARAMETERS OF THE MULTIGRID METHOD FOR THE SOLUTION OF 2D HEAT DIFFUSION PROBLEM USING NON-ORTHOGONAL STRUCTURED GRIDS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Luciano Araki	164	COMPARISON OF DIFFERENT TECHNIQUES TO SPECIFY BOUNDARY CONDITIONS IN BODY-FITTED GRIDS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Luciano Araki	180	Comparison Between Turbulence Models Over Magnus Effect	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Luciano Araki	473	STUDY OF PARAMETERS OF A MULTIGRID METHOD FOR A NEW APPROACH USING SIMPLEC PRESSURE-VELOCITY COUPLING	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Luciano Batista	666	ANALYSIS OF THE IGNITION DELAY OF THE BIODIESEL ON FUEL IGNITION TESTER -FIT	Combustion and Environmental Engineering	Engine Combustion	poster
Luciano Infiesta	15	PELLETIZED BIOMASS FROM MUNICIPAL SOLID WASTES FOR USE AS SOLID FUEL	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral

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Luciano Rossi	635	EXPERIMENTAL PHASE EQUILIBRIUM FOR METHANE HYDRATES IN INHIBITED SYSTEMS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Lucky Vieira Barcelos	815	DETERMINATION OF THE DISTRIBUTION OF TEMPERATURES IN PERMANENT REGIME OF AN ELECTRONIC SYSTEM THROUGH FINITE DIFFERENCE	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Luigi Viola	10	Ecological aspects of electrolytic hydrogen: comparing renewable and non-renewable sources	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Luis Eduardo Accordi Ferrari	724	ANALYSIS OF THE EFFECTS OF PERIODIC MAINTENANCE OF AGRICULTURAL TRACTORS THROUGH THE METHOD OF EXPERIMENTAL PLANNING	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Luís Felipe dos Santos Carollo	445	NUMERICAL ANALYSIS OF THE INFLUENCE OF COATINGS IN A CUTTING TOOL USING COMSOL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Luís Felipe dos Santos Carollo	525	THERMAL PROPERTIES ESTIMATION OF METALS USING DIFFERENT THERMAL MODELS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Luis Felipe Ribeiro Romano	46	NUMERIC EVALUATION OF A HEAT PIPE-RADIATOR ASSEMBLY FOR SPACE POWER SYSTEMS	Aerospace Engineering	Propulsion	oral
Luis Fernando Azeved	307	IN VITRO EXPERIMENTAL INVESTIGATION OF AORTIC VALVE TILT ANGLE ON HEMODYNAMIC FLOW PATTERNS	Bioengineering	Bioengineering	oral
Luís Fernando Figueira da Silva	99	SOOT DISTRIBUTION IN TURBULENT BLUFF BODY NEAR WAKE NON PREMIXED FLAMES	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Luís Fernando Figueira da Silva	143	EXPERIMENTAL STUDY OF THE INFLUENCE OF THE SWIRL NUMBER ON LEAN PREMIXED COMBUSTION REGIMES	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Luís Fernando Figueira da Silva	421	INFLUENCE OF THE STAGNATION PRESSURE RATIO ON THE ONSET OF RECIRCULATION ZONES IN INVISCID SUPERSONIC FLOWS	Aerospace Engineering	Aerodynamics	oral
Luís Gustavo Pires Rodrigues	250	COMPUTATION OF A LAMINAR DIFFUSION ETHYLENE/AIR FLAME CONSIDERING SOOT FORMATION AND THE WEIGHTED-SUM-OF-GRAY-GASES MODEL	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Luís Henrique Carnevale da Cunha	173	STREAM FUNCTION-VORTICITY FORMULATION APPLIED IN THE CONJUGATED HEAT PROBLEM USING THE FEM WITH UNSTRUCTURED MESH	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Luís Mauro Moura	182	COMPARATIVE ANALYSIS OF HEAT TRANSFER COEFICIENT APPLIED TO SPARK IGNITION COMBUSTION ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Luís Mauro Moura	231	Improvements in Software DOMUS about Atmospheric Radiative Exchange and Long-wave Boundary Conditions	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
LUIS PEREIRA	801	NUMERICAL SIMULATION OF THE BUBBLE PEN PHENOMENON	Fluid Mechanics and Rheology	Multi-phase Flow	poster
LUIS RIBEIRO	829	THERMAL ANALYSIS OF TUBES TAMPONING IN CONDENSERS OF A PWR NUCLEAR POWER PLANT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Luis Roberto de Mello e Pinto	274	THE ACOUSTIC ENHANCEMENT ANALYSES IN THE COMBUSTION PARAMETERS OF THE EUCALYPTUS FIREWOOD.	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Luisa Colombo Dias	341	VIABILITY STUDY OF HELIOTHERMIC ENERGY GENERATION WITH PARABOLIC TROUGH CONCENTRATOR TECHNOLOGY AND THERMAL STORAGE SYSTEM FOR THE IFES CAMPUS SÃO MATEUS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Luísa Mirelle Santos	817	EQUILIBRIUM AND PERFECT GAS AIR BEHAVIOR IN THE STAGNATION REGION	Aerospace Engineering	Propulsion	poster
Luiz Antonio Alcântara Pereira	688	LAGRANGIAN VORTEX METHOD WITH IMPROVED BOUNDARY CONDITIONS TO STUDY THE AERODYNAMICS OF BLUFF BODY CLOSE TO A MOVING GROUND USING LAGRANGIAN LARGE EDDY SIMULATION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Luiz Carlos MARTINELLI JUNIOR	804	DEVELOPMENT OF COMPUTATIONAL PROGRAM TO DETERMINE THE COST OF VAPOR PRODUCTION IN BOILERS: PHASE 1	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Luiz Chaves	369	DEFINITION OF THERMAL HYDRAULIC PROFILE OF A STEAM GENERATOR FOR NAVAL NUCLEAR PROPULSION VIA THERMODYNAMIC ANALYSIS OF ANGRA 1 STEAM GENERATOR	Nuclear Engineering	Nuclear Engineering	oral
Luiz Chaves	617	ENCIT2018-0567 - THERMODYNAMIC ANALYSIS AND PARAMETRIC OPTIMIZATION OF THE SECONDARY SYSTEM OF ANGRA 1 NUCLEAR POWER PLANT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Luiz Chaves	703	TEMPERATURE PROFILE AND EFFICIENCY OF STRAIGHT FINS WITH TEMPERATURE DEPENDENT INTERNAL HEAT GENERATION AND RADIATION EFFECTS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Luiz Chaves	829	THERMAL ANALYSIS OF TUBES TAMPONING IN CONDENSERS OF A PWR NUCLEAR POWER PLANT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Luiz Claudio Marques	126	CALIBRATION OF THERMOCOUPLE TYPE TEMPERATURE SENSORS BY COMPARISON WITH STANDARD INSTRUMENT USING LINEAR REGRESSION MATH METHOD	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Luiz Claudio Marques	790	PERFORMANCE ANALYSIS OF A DIESEL ENGINE OPERATING WITH TERNARY MIXTURES OF DIESEL, BIODIESEL AND ETHANOL.	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Luiz Claudio Marques	795	DEVELOPMENT OF AN EXPERIMENTAL BENCH FOR THE REALIZATION OF TESTS IN DIESEL GENERATOR SETS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Luiz Czelusniak	523	Convection Study in a Square Cavity using Lattice Boltzmann Method	Energy and Thermal Sciences	Numerical Heat Transfer	oral

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Luiz Eduardo dos Santos Paes	20	PREDICTION OF LASER WELD BEAD PROFILE THROUGH AN INVERSE PROBLEM APPROACH	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Luiz Eduardo Melo Lima	251	A Review of Frequency Correlations for the Intermittent Gas-Liquid Flow in Horizontal Pipes	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Luiz Eduardo Melo Lima	253	Experimental Investigation of the Extinction Depth for a Candle Diffusion Flame under Confinement	Combustion and Environmental Engineering	Combustion, Pyrolysis and Gasification of Solids and Liquids	poster
Luiz Eduardo Melo Lima	583	Computational Simulation of Particulate Flow Aiming the Plugging of Drilling Wells Fractures	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Luiz Felipe Mendes Moura	406	CFD ANALYSIS APPLIED TO WATER METERS DESIGN AND PERFORMANCE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Luiz Fernando Bermero Nardi	682	Experimental characterizing of outward annular impinging jets	Flow Induced Vibration	Flow Induced Vibration	oral
Luiz Ferreira	369	DEFINITION OF THERMAL HYDRAULIC PROFILE OF A STEAM GENERATOR FOR NAVAL NUCLEAR PROPULSION VIA THERMODYNAMIC ANALYSIS OF ANGRA 1 STEAM GENERATOR	Nuclear Engineering	Nuclear Engineering	oral
Luiz Ferreira	617	ENCIT2018-0567 - THERMODYNAMIC ANALYSIS AND PARAMETRIC OPTIMIZATION OF THE SECONDARY SYSTEM OF ANGRA 1 NUCLEAR POWER PLANT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Luiz Ferreira	703	TEMPERATURE PROFILE AND EFFICIENCY OF STRAIGHT FINS WITH TEMPERATURE DEPENDENT INTERNAL HEAT GENERATION AND RADIATION EFFECTS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Luiz Henrique Meneghel Lino	495	NUMERICAL ANALYSIS OF A LIQUID-GAS TWO-PHASE FLOW IN A DISTRIBUTION SYSTEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Luiz Machado	43	ANALYSIS OF THE REFRIGERANT MASS CHARGE FOR A DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP SYSTEM	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Luiz Machado	49	PERFORMANCE COMPARISON OF DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP WORKING WITH R1234YF AS A DROP-IN REPLACEMENT FOR R134A	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Luiz Machado	68	ECONOMIC AND ENERGETIC ANALYSIS OF SOLAR COLLECTOR SIZE OF A DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Luiz Machado	92	TRANSIENT ANALYSIS OF A HEAT PUMP SOLAR EVAPORATOR THROUGH A TEMPERATURE STEP	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Luiz Machado	166	Prediction of heat transfer coefficient during condensation of R404a in helically coiled tubes using adaptive neuro-fuzzy inference system	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Luiz Machado	235	OPTIMAL HIGH PRESSURE CORRELATION FOR R744 DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP FOR DOMESTIC HOT WATER	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Luiz Machado	508	EXPERIMENTAL STUDY ON THE SINGLE-PHASE CONVECTIVE HEAT TRANSFER COEFFICIENT IN THE TUBE QUENCHING PROCESS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Luiz Machado	534	ENERGY OPTIMIZATION OF EXPERIMENTAL BENCH TEST FOR STUDY OF INTERNAL HEAT TRANSFER COEFFICIENT IN QUENCHING BY IMMERSION OF TUBES	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Luiz Paulo Borges Miranda	463	NUMERICAL INVESTIGATION OF THE INFLUENCE OF THE FLOW DIMENSIONLESS PARAMETERS ON THE HEAT TRANSFER OF A VISCOPLASTIC FLUID	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Luiz Rigatti	134	MATHEMATICAL MODELING OF A SOLID WASTE INCINERATION SYSTEM AND STEAM GENERATION	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Luiz Rigatti	149	Modeling and Simulation of the Absorber of an Absorption Refrigeration System	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Luiz Rigatti	224	MODELING AND SIMULATION OF THERMAL MANAGEMENT SYSTEMS OF ELECTRONIC EQUIPMENT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Luiz Rigatti	238	MATHEMATICAL MODELING OF FRACTIONAL DISTILLATION OF MICROALGAE CRUDE OIL FOR PURE HYDROCARBON PRODUCTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Luiz Roberto Rocha de Lucena	354	THERMAL DIFFUSIVITY IDENTIFICATION OF NICKEL-TITANIUM SMA USING A PERIODIC TEMPERATURE FIELD	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Luiz Roberto Rocha de Lucena	444	DEVELOPMENT OF AN EXPERIMENTAL DEVICE FOR THERMAL DIFFUSIVITY IDENTIFICATION OF METALLIC ALLOYS USING A PERIODIC TEMPERATURE FIELD	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Macklini Dalla Nora	347	THERMODYNAMIC MODELLING OF A POWER GENERATION STEAM ENGINE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Maiara Fernanda Garcia	784	STUDY ENERGY RECOVERY POTENTIAL FROM MUNICIPAL SOLID WASTE IN FOZ DO IGUAÇU LANDFILL	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Mailson Sousa	5	POLLUTANTS PREDICTION IN PULSED DIFFUSE FLAME THROUGH NUMERICAL METHOD	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
MANOEL ANTONIO FONSECA COSTA	679	Using Organic Rankine Cycle for electricity generation from waste heat	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
MANOEL ANTONIO FONSECA COSTA	700	WEB SYSTEM FOR WEATHER DATA PROCESSING TO HVAC DESIGN	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	oral
Manoel Nogueira	346	MEASUREMENT OF AIR MASS FLOW IN COMPRESSION IGNITION ENGINES	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster

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Manoel Nogueira	373	IMPACTS ON THE PARAMETERS OF WIEBE FUNCTION WITH LOAD VARIATION IN COMPRESSION IGNITION ENGINES	Combustion and Environmental Engineering	Engine Combustion	poster
Manoel Nogueira	614	EXPERIMENTAL ANALYSIS IN A DIESEL GENERATOR SET CONSUMING FUEL B7, WITH HHO GAS INJECTION IN THE AIR OF ADMISSION	Combustion and Environmental Engineering	Engine Combustion	poster
Manoel Nogueira	754	METHODOLOGIES FOR MEASURING SPECIFIC CONSUMPTION FUE IN COMPRESSION IGNITION ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Manoel Nogueira	760	ANALYSIS OF MOISTURE ADSORPTION ISOTHERMS FOR ROASTED AND RAW BIOMASSES	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Manoel Nogueira	780	EFFECTS OF THE ADDITION OF HYDROGEN IN THE DIESEL ENGINE ADMISSION AIR CONSUMING FUEL B7 - NUMERICAL AND EXPERIMENTAL APPROACH	Combustion and Environmental Engineering	Engine Combustion	poster
Manoel Nogueira	792	Simulation of a Diesel Engine Using AVL FIRE Software	Combustion and Environmental Engineering	Engine Combustion	poster
Manuel Schiaffino	571	THERMOECONOMIC OPTIMIZATION OF ABSORPTION CHILLER SUPERSTRUCTURES FOR AN INTERNAL COMBUSTION ENGINE; WASTE HEAT RECOVERY AND COLD-WATER APPLICATIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Manuel Schiaffino	578	OPTIMIZATION OF THE WASTE HEAT RECOVERY SUPERSTRUCTURES FOR LARGE STATIONARY DIESEL ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
MARA NILZA ESTANISLAU REIS	418	COANDA EFFECT ANALYSIS IN THE BANDEIRANTE AIRCRAFT AERODYNAMIC PROFILE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
MARA NILZA ESTANISLAU REIS	708	NUMERICAL SIMULATION TO ANALYZE THE RADIATOR OF A POWER TRANSFORMER	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Marcel Cavallini Barbosa	630	EXPERIMENTAL EVALUATION OF EFFICIENCY OF GAS SEPARATION IN AN INVERTED-SHROUD GAS-LIQUID SEPARATOR IN VERTICAL POSITION	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Marcelo Adriano Fogiatto	242	STUDY OF THERMAL TRANSMITTANCE OF A BRAZILIAN CONCRETE HOLLOW BLOCK WALL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Marcelo Aiolfi Barone	489	A COMPREHENSIVE THERMOECONOMIC DIAGRAM BASED ON BOTH SUBSYSTEM PRODUCTIVE PURPOSES AND PHYSICAL CONNECTIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Marcelo Aiolfi Barone	571	THERMOECONOMIC OPTIMIZATION OF ABSORPTION CHILLER SUPERSTRUCTURES FOR AN INTERNAL COMBUSTION ENGINE; WASTE HEAT RECOVERY AND COLD-WATER APPLICATIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Marcelo Aiolfi Barone	578	OPTIMIZATION OF THE WASTE HEAT RECOVERY SUPERSTRUCTURES FOR LARGE STATIONARY DIESEL ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Marcelo Borges dos Santos	183	DETERMINING EFFECTIVE DIFFUSION COEFFICIENT OF BANANAS DURING DRYING PROCESS USING DIFFERENTIAL EVOLUTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Marcelo Colaco	80	APPLICATION OF WAF-TVD SCHEME FOR WATER HAMMER EQUATIONS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Marcelo De Lemos	772	ANALYSIS OF THERMOCLINE STORAGE TANK CONFIGURATIONS FOR CONCENTRATED SOLAR POWER PLANTS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Marcelo De Lemos	799	ANALYTICAL TRANSIENT HEAT CONDUCTION THROUGH AN COMPOSITE REGION OF AN INFINITE SOLID CYLINDER WITH A PERFECT THERMAL CONTACT TO A SEMI-INFINITE MEDIUM	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	poster
Marcelo De Lemos	800	Numerical Analysis of a Cylindrical Heat Source for a Novel Oil Well Abandonment Technique	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Marcelo Luiz de Freitas Fogal	7	NUMERICAL AND EXPERIMENTAL ANALYSIS OF RADIAL FANS APPLIED IN AGRICULTURAL SPREADERS USING CFD	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Marcelo Melo	270	NUMERICAL SIMULATION OF FLOW IN A PATIENT WITH ASCENDING AORTIC ANEURYSM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Marcelo Modesto	559	UTILIZATION OF RESIDUAL HEAT FROM THE DISTILLATION IN THE ETHANOL PRODUCTION PROCESS TO GENERATE ELECTRICITY THROUGH AN ORGANIC RANKINE CYCLE (ORC)	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Marcelo Pirani	100	Fault Detection and Diagnosis in a Refrigeration System Using Thermo-economic Methodology and Artificial Intelligence	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Marcelo Pirani	100	Fault Detection and Diagnosis in a Refrigeration System Using Thermo-economic Methodology and Artificial Intelligence	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Marcelo Silva	801	NUMERICAL SIMULATION OF THE BUBBLE PEN PHENOMENON	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Marcelo Silva	809	LOSS OF PIPELINE PRESSURE WITH SINGLE-PHASE AND BIPHASIC	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Marcelo Souza de Castro	200	The Use of Experimental Data in the Prediction of a Slug Flow Pattern for CFD Simulations	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Marcelo Souza de Castro	738	ANTIFOAM PERFORMANCE EVALUATION OF MEDIUM API GRAVITIES PETROLEUMS	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	poster
Marcia Mantelli	54	A computational study of the hydrodynamic developing region in single-phase minichannels	Nano and Microfluidic and Micro-Systems	Micro and Nanofluidics	oral
Marcia Mantelli	372	Stationary test bench for evaluation of the heat exchange of automotive radiators	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Marcia Mantelli	456	A THEORETICAL ANALYSIS FOR PRESSURE DROP AND HEAT TRANSFER IN CORRUGATED PLATE HEAT EXCHANGERS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Marcio Carmo Lopes Pontes	300	COMPUTATIONAL FLUID DYNAMICS (CFD) BASED APPROACHES FOR MODELING AIRCRAFT TURBOFANS	Aerospace Engineering	Propulsion	poster
Marcio Coelho	41	Uncertainty Evaluation and Experimental Analysis for a Wind Tunnel as Reference to Gas Flare Flow Measurement	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral

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Marcio Correa	762	ANALYSIS OF THE THERMAL PROFILE OF THE ELECTRIC ARC FURNACE OF SINOBRAS S.A	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Marcio F Martins	395	LOW-COST EIT SYSTEM DESIGN BASED ON THE SOFTWARE EIDORS	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Marcio Pinto	116	STUDY OF PARAMETERS OF THE MULTIGRID METHOD FOR THE SOLUTION OF 2D HEAT DIFFUSION PROBLEM USING NON-ORTHOGONAL STRUCTURED GRIDS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Marcio Pinto	473	STUDY OF PARAMETERS OF A MULTIGRID METHOD FOR A NEW APPROACH USING SIMPLEC PRESSURE-VELOCITY COUPLING	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Márcio Teixeira de Mendonça	439	Stability of Binary Mixing Layers Under the Effect of Buoyancy Forces	Aerospace Engineering	Propulsion	oral
Márcio Teixeira de Mendonça	455	Mixing Layer Stability Analysis With Strong Temperature Gradients	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Márcio Teixeira de Mendonça	785	Numerical Simulations of a Rocket Engine Internal Flow	Aerospace Engineering	Propulsion	poster
Marco Antônio Vieira	94	INTEGRATION OF A CONCENTRATED SOLAR POWER PLANT, A SUGAR-CANE BIORREFINERY AND A BIODIGESTION PLANT	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Marco Aurélio da Cunha Alves	187	Assessment of Thermoacoustic Combustion Instabilities in Liquid Rocket Engines Using the Partially Stirred Reactor Combustion Model	Aerospace Engineering	Propulsion	oral
Marco Aurélio Leonel Matunaga	421	INFLUENCE OF THE STAGNATION PRESSURE RATIO ON THE ONSET OF RECIRCULATION ZONES IN INVISCID SUPERSONIC FLOWS	Aerospace Engineering	Aerodynamics	oral
Marco Diniz	505	A MODELICA MODEL TO SIMULATE DOMESTIC REFRIGERATION COMPRESSORS UNDER TRANSIENT CONDITIONS	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Marco Diniz	717	A Steady-state Model to Predict The Performance of Reciprocating Compressors in Household Refrigerators	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Marco Jose Da Silva	494	TWO-PHASE FLOW IN A ROCK-FLOW CELL: COMPARISON OF VOF-ISOADVECTOR MODEL WITH EXPERIMENTS	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Marco Jose Da Silva	647	Experimental Analysis of Slug Flow Evolution in Horizontal Pipes	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Marco Jose Da Silva	668	EXPERIMENTAL STUDY OF BOILING PHENOMENON IN THE EVAPORATOR OF A GLASS THERMOSYPHON	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Marco Tulio Gama da Silva	306	EXPERIMENTAL EVALUATION OF PERFORMANCE OF R32 AS A SUBSTITUTE FOR R410A IN COOLING SYSTEMS	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Marcos Peniche	760	ANALYSIS OF MOISTURE ADSORPTION ISOTHERMS FOR ROASTED AND RAW BIOMASSES	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Marcos Antonio Feitosa da Silva	5	POLLUTANTS PREDICTION IN PULSED DIFFUSE FLAME THROUGH NUMERICAL METHOD	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Marcos Batistella Lopes	26	EVALUATING RANS TURBULENCE MODELS TO PREDICT THE AIRFLOW IN A DUCT BEND	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Marcos Batistella Lopes	183	DETERMINING EFFECTIVE DIFFUSION COEFFICIENT OF BANANAS DURING DRYING PROCESS USING DIFFERENTIAL EVOLUTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Marcos Batistella Lopes	234	OPTIMIZATION OF DOUBLE PIPE-HEAT EXCHANGER WITH SINGLE SEGMENTAL PERFORATED BAFFLES	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Marcos Bertrand de Azevedo	381	COMPUTATIONAL SIMULATION OF TAYLOR BUBBLES MOTION IN A STAGNANT LIQUID INSIDE A VERTICAL COLUMN	Nuclear Engineering	Nuclear Engineering	oral
Marcos Curi	369	DEFINITION OF THERMAL HYDRAULIC PROFILE OF A STEAM GENERATOR FOR NAVAL NUCLEAR PROPULSION VIA THERMODYNAMIC ANALYSIS OF ANGRA 1 STEAM GENERATOR	Nuclear Engineering	Nuclear Engineering	oral
Marcos Curi	617	ENCIT2018-0567 - THERMODYNAMIC ANALYSIS AND PARAMETRIC OPTIMIZATION OF THE SECONDARY SYSTEM OF ANGRA 1 NUCLEAR POWER PLANT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Marcos Curi	701	COMMERCIAL AND RESIDENTIAL TECHNO-ECONOMIC ANALYSIS OF A GRID-CONNECTED PV SYSTEM – RIO DE JANEIRO'S CASE STUDY	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	oral
Marcos Curi	703	TEMPERATURE PROFILE AND EFFICIENCY OF STRAIGHT FINS WITH TEMPERATURE DEPENDENT INTERNAL HEAT GENERATION AND RADIATION EFFECTS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Marcos dos Santos	833	THE USE OF INFRARED IMAGE FOR THE DETECTION OF THE THYROID	Bioengineering	Bioengineering	oral
Marcos Fedrizzi	255	SIMULATION OF THREE-DIMENSIONAL FLOW OF AIR IN DUCT OF INDUSTRIAL TERM-SHRINKING TUNNEL	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Marcos Vinicius Barbosa	583	Computational Simulation of Particulate Flow Aiming the Plugging of Drilling Wells Fractures	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Marcos Vinicius Brasil	708	NUMERICAL SIMULATION TO ANALYZE THE RADIATOR OF A POWER TRANSFORMER	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Marcos Vinicius Sabino Pereira	72	DESIGN OF AN ACADEMIC SCRAMJET FOR ATMOSPHERIC CAPTIVE FLIGHT AT MACH NUMBER 4.18 COUPLED TO A ROCKET FTI	Aerospace Engineering	Propulsion	poster
MARCUS VINICIUS SILVEIRA MACEDO	417	CUCKOO SEARCH ALGORITHM IN WIND ENERGY APPLICATION FOR A BRAZILIAN SITE	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
MARCUS VINICIUS SILVEIRA MACEDO	425	HARMONY SEARCH ALGORITHM APPLIED TO WIND ENERGY: DETERMINATION OF WEIBULL CURVE PARAMETERS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster

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MARCUS VINICIUS SILVEIRA MACEDO	733	IMPERIALIST COMPETITIVE ALGORITHM APPLIED TO WINDENERGY FOR A BRAZILIAN SITE AT PARAÍBA	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
MARCUS VINICIUS SILVEIRA MACEDO	735	DETERMINATION OF WEIBULL CURVE PARAMETERS APPLIED TO WIND ENERGY BY PARTICLE SWARM OPTIMIZATION	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
MARCUS VINICIUS SILVEIRA MACEDO	739	HEURISTIC METHODOLOGY APPLIED TO WIND ENERGY: DETERMINATION OF WEIBULL CURVE PARAMETERS BY ANT COLONY OPTIMIZATION	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
MARCUS VINICIUS SILVEIRA MACEDO	744	MIGRATORY BIRDS OPTIMIZATION APPLIED TO WIND ENERGY FOR PETROLINA, BRAZIL	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Maria Aleksandra de Sousa Rios	756	SOYBEAN AND SUNFLOWER BIODIESELS: EVALUATION OF OXIDATIVE STABILITY BY RANCIMAT AND DSC	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Maria Chiamulera	266	THERMAL ANALYSIS OF A VARIABLE CAPACITY COMPRESSOR FREQUENCY INVERTER	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Maria Clara Schuwartz Ferreira Caliman	288	AIR QUALITY IN INTERNAL ENVIRONMENTS AND ANALYSIS OF CURRENT LEGISLATION: CASE STUDY IN A EDUCATIONAL INSTITUTION	Combustion and Environmental Engineering	Environmental Engineering	oral
Maria Clara de Lacerda Peixoto	690	ANALYSIS OF THE AIR CONDITIONING SYSTEM OF A DATA CENTER USING THERMOGRAPHY AND CFD	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Maria Eugenia V. da Silva	831	TESTS OF ARRANGEMENT IN A PROTOTYPE OF A STEAM GENERATOR IN AN ABSORPTION REFRIGERATION SYSTEM	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Maria Fernanda Possebon Mazer	347	THERMODYNAMIC MODELLING OF A POWER GENERATION STEAM ENGINE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Maria Helena Farias	260	EXPERIMENTAL STUDY ON VELOCITY AND WAVE PROFILES DURING AIR-WATER FLOW IN HORIZONTAL CHANNELS	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Maria Laura Martins-Costa	37	SPECTRAL AND FINITE DIFFERENCE SIMULATIONS FOR TEMPERATURE DISTRIBUTION IN A POROUS FIN	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Maria Laura Martins-Costa	431	FINITE ELEMENTS SIMULATION OF HEAT TRANSFER IN THIN PLATES WITH TEMPERATURE DEPENDENT CONDUCTIVITY	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Maria Luíza da Cunha Oliveira Santos	288	AIR QUALITY IN INTERNAL ENVIRONMENTS AND ANALYSIS OF CURRENT LEGISLATION: CASE STUDY IN A EDUCATIONAL INSTITUTION	Combustion and Environmental Engineering	Environmental Engineering	oral
Mario Ito	317	NUMERICAL SIMULATION OF NATURAL CONVECTION OVER A HORIZONTAL PLATE	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Mario Ito	603	LOW COST THERMAL PYRANOMETER USING DALLAS DS18B20 SENSOR AND ARDUINO	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Mario Ito	606	THERMAL RADIOMETER USING LM35 ANALOG SENSORS, CONNECTED TO AN ARDUINO BOARD	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Mario Martins	347	THERMODYNAMIC MODELLING OF A POWER GENERATION STEAM ENGINE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Mario Siqueira	257	ANALYSIS OF THEORETICAL MODELS OF THE GLOBAL SOLAR RADIATION WITH DATA COLLECTED IN BRASÍLIA - DF	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Mario Siqueira	269	Solar Energy - Brazil's Analysis	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Marisa Cruz Coser	288	AIR QUALITY IN INTERNAL ENVIRONMENTS AND ANALYSIS OF CURRENT LEGISLATION: CASE STUDY IN A EDUCATIONAL INSTITUTION	Combustion and Environmental Engineering	Environmental Engineering	oral
Marta Lemos	260	EXPERIMENTAL STUDY ON VELOCITY AND WAVE PROFILES DURING AIR-WATER FLOW IN HORIZONTAL CHANNELS	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Mateus Andreazza Araújo Leite	543	Thermal comparison between a domestic oven with and without alumina.	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Mateus Andreazza Araújo Leite	645	THERMAL EFFICIENCY ANALYSIS OF A LPG WATER HEATER	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Mateus Andreazza Araújo Leite	673	Boiling comparative analysis in metallic container and vitreous container	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Mateus Andreazza Araújo Leite	714	FLOW MACHINE WITH EXTERNAL COMBUSTION, AIR DRAG	Combustion and Environmental Engineering	Engine Combustion	poster
Mateus Andreazza Araújo Leite	714	FLOW MACHINE WITH EXTERNAL COMBUSTION, AIR DRAG	Combustion and Environmental Engineering	Engine Combustion	poster
Mateus Avanci	233	TOWARDS A QUALITATIVE CRITERIA FOR THE ONSET OF ABSOLUTE INSTABILITY ON REVERSED-FLOW BOUNDARY-LAYER PROFILES	Aerospace Engineering	Aerodynamics	oral
Mateus de Paula Vieira	219	SU ² CFD simulation of the Hypersonic Technological Demonstrator 14-X B at flight Mach number 7	Aerospace Engineering	Propulsion	poster
Mateus Grassano Lattari	187	Assessment of Thermoacoustic Combustion Instabilities in Liquid Rocket Engines Using the Partially Stirred Reactor Combustion Model	Aerospace Engineering	Propulsion	oral
Mateus Salles	268	Production of electricity from biogas generated by Sapucaí ETS	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Mateus Salles	268	Production of electricity from biogas generated by Sapucaí ETS	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Mateus Schuabb	386	Three-Dimensional instability analysis in a porous medium with inclined temperature gradient and horizontal and vertical throughflow	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral

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Matheus Alves Lima	815	DETERMINATION OF THE DISTRIBUTION OF TEMPERATURES IN PERMANENT REGIME OF AN ELECTRONIC SYSTEM THROUGH FINITE DIFFERENCE	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Matheus Dias	64	STABILITY ANALYSIS OF LONG INTERFACIAL WAVES IN GAS-LIQUID PIPE FLOW USING A LEVEL-SET APPROACH	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Matheus Garcia	200	The Use of Experimental Data in the Prediction of a Slug Flow Pattern for CFD Simulations	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Matheus Guzella	523	Convection Study in a Square Cavity using Lattice Boltzmann Method	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Matheus Henrique Gonzaga Niterói	30	ENERGY EFFICIENCY OF A SOLAR HEAT PUMP OPERATING IN NULL SOLAR RADIATION CONDITION	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Matheus Henrique Gonzaga Niterói	113	CHARACTERIZATION AND ANALYSIS OF THE EFFICIENCY OF A HERMETIC COMPRESSOR	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Matheus Leone Borges	520	A First Approach for an Exergy Analysis of the Human Heart With a Pathology	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Matheus Lima	111	EXERGOECONOMIC AND EXERGOENVIRONMENTAL ANALYSIS OF POWER PLANT WITH CO2 CAPTURE AND STORAGE	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	oral
Matheus Lima	118	EXERGOECONOMIC ANALYSIS OF A DIESEL ENGINE	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Matheus Lima	181	CHEMICAL REACTIONS MODEL APPLIED TO SUPERSONIC COMBUSTION	Aerospace Engineering	Propulsion	oral
Matheus Porto	150	THEORETICAL STUDY OF A DIRECT STEAM GENERATION POWER PLANT WITH PARABOLIC TROUGH COLLECTORS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Matheus Protasio de Lima	271	SIMULATION OF CSP POWER PLANTS IN THE WESTERN MESOREGION OF THE STATE OF RIO GRANDE DO NORTE – BR	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Matheus Protasio de Lima	774	MATHEMATICAL MODEL FOR OPTICAL LOSSES CALCULATION IN HELIOSTAT FIELDS IN SOLAR TOWER POWER PLANTS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Matheus Silva	455	Mixing Layer Stability Analysis With Strong Temperature Gradients	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Matheus Tozo de Araujo	826	An Algorithm for Solving an Implicit Solution for Fully Developed Flow in a Channel of a Giesekus Fluid	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Matheus Tozo de Araujo	827	Performance Analysis of a Parallel Code for Laminar-Turbulent Transition Studies	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Matheus Vinicius de Oliveira Herrero	804	DEVELOPMENT OF COMPUTATIONAL PROGRAM TO DETERMINE THE COST OF VAPOR PRODUCTION IN BOILERS: PHASE 1	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Matias Nicolas Muñoz	134	MATHEMATICAL MODELING OF A SOLID WASTE INCINERATION SYSTEM AND STEAM GENERATION	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Matias Nicolas Muñoz	149	Modeling and Simulation of the Absorber of an Absorption Refrigeration System	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Matias Nicolas Muñoz	224	MODELING AND SIMULATION OF THERMAL MANAGEMENT SYSTEMS OF ELECTRONIC EQUIPMENT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Matias Nicolas Muñoz	238	MATHEMATICAL MODELING OF FRACTIONAL DISTILLATION OF MICROALGAE CRUDE OIL FOR PURE HYDROCARBON PRODUCTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Maurício Gaggero	482	MODELING OF THE DRYING PROCESS OF AGRICULTURAL PRODUCTS: LUIKOV'S APPROACH CONSIDERING VARIABLE PARAMETERS AND USE OF GITT	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Maurício Guilherme Alves dos Reis	413	ARCHIMEDES TURBINE NUMERICAL SIMULATION USING THE OPENFOAM SOFTWARE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Max William Reis	642	DROPLET VAPORIZATION OF ETHANOL, N-HEPTANE, AND ISO-OCTANE ON HEATED SURFACES OF DIFFERENT METALS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Melina Peixoto	288	AIR QUALITY IN INTERNAL ENVIRONMENTS AND ANALYSIS OF CURRENT LEGISLATION: CASE STUDY IN A EDUCATIONAL INSTITUTION	Combustion and Environmental Engineering	Environmental Engineering	oral
Michel Fábio de Souza Moreira	366	COMPARISON BETWEEN SOLAR TRACKING SYSTEMS DEVELOPED FROM MATHEMATICAL MODELS OF SOLAR GEOMETRY AND LDR SENSORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Michel Fábio de Souza Moreira	387	OPTIMIZATION AND EXERGETIC ANALYSIS OF A REGENERATIVE CYCLE USING BIOGAS COMBINED WITH HYDROGEN AS FUEL	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Miguel Ângelo Menezes	769	ANALYSIS OF RADIATORS IN VEHICLES COOLING SYSTEM OF SAE FORMULA	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Miguel Barrientos	437	ANALYSIS OF THE VIABILITY OF STIRLING ENGINES OPERATING WITH BIOGAS OF BRAZILIAN LIVESTOCK	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Miguel Barrientos	458	ANALYSIS OF THE COMBUSTION PROCESS IN AN ENGINE ADAPTED WITH PRE-CHAMBER USING A ZERO DIMENSIONAL NUMERICAL MODEL AND A THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral

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Miguel Barrientos	541	ANALYSIS OF THE COMBUSTION PROCESS IN A ADAPTED ENGINE WITH PRE-CAMERA USING AN EXPERIMENTAL MODEL AND THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Engine Combustion	oral
Miguel Barrientos	541	ANALYSIS OF THE COMBUSTION PROCESS IN A ADAPTED ENGINE WITH PRE-CAMERA USING AN EXPERIMENTAL MODEL AND THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Engine Combustion	oral
Mila Avelino	8	FORECASTING THE LENGTH OF THE UNDEVELOPED FLOW REGION IN THE INLET OF ASYMMETRIC BIFURCATIONS I	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	poster
Mila Avelino	9	FORECASTING THE LENGTH OF THE UNDEVELOPED FLOW REGION IN THE INLET OF ASYMMETRIC BIFURCATIONS II	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	poster
Milagros Cecilia Palacios-Bereche	237	COMPARISON BETWEEN TWO ALTERNATIVES FOR THE ENERGY USE OF VINASSE: CONCENTRATION-INCINERATION VS BIODIGESTION	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
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Mohamed Beshir	75	AN ANALYSIS OF THE INFLUENCE OF THE FIRE SOURCE LOCATION ON THE HOT GAS LAYER TEMPERATURE IN A PRE-FLASHOVER COMPARTMENT FIRE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Mohamed Beshir	75	AN ANALYSIS OF THE INFLUENCE OF THE FIRE SOURCE LOCATION ON THE HOT GAS LAYER TEMPERATURE IN A PRE-FLASHOVER COMPARTMENT FIRE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Moisés Sousa	174	INFLUENCE OF THE VARIATION OF THE INJECTION POINT IN THE PERFORMANCE OF A DIESEL ENGINE	Combustion and Environmental Engineering	Engine Combustion	poster
Moisés Gouvea	138	ANALYSIS OF PRESSURE DISTRIBUTION GENERATED BY WIND LOAD IN AN ORE RECOVERY	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Moisés Marcelino Neto	511	EXPERIMENTAL STUDY OF HYDRATE FORMATION IN NON EMULSIFYING OIL SYSTEMS IN SHUT-IN AND RESTART CONDITIONS	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
Moisés Marcelino Neto	517	WATER-ALCOHOL-HYDROCARBONS VLE AND VLLE: PREDICTION OF ALCOHOL PARTITION COEFFICIENT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Moisés Marcelino Neto	530	EXPERIMENTAL PHASE EQUILIBRIUM OF CARBON DIOXIDE HYDRATES WITH MEG ABOVE THE UPPER QUADRUPLE POINT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Moisés Marcelino Neto	532	EXPERIMENTAL ANALYSIS OF HORIZONTAL AIR-WATER SLUG FLOW PRESSURE DROP IN CORRUGATED PIPES	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Moisés Marcelino Neto	635	EXPERIMENTAL PHASE EQUILIBRIUM FOR METHANE HYDRATES IN INHIBITED SYSTEMS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Monica Naccache	153	RHEOLOGICAL MODIFIERS IN DRILLING FLUIDS	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Murilo Franco Coradini	240	HOT-WIRE ANEMOMETERS: DESIGN AND ENGINEERING APPLICATIONS	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Murilo Tomé	820	Numerical Simulation of Extrudate Swell of Oldroyd-B Fluids	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Narcisio Gregory Santos Mazzarella	8	FORECASTING THE LENGTH OF THE UNDEVELOPED FLOW REGION IN THE INLET OF ASYMMETRIC BIFURCATIONS I	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	poster
Narcisio Gregory Santos Mazzarella	9	FORECASTING THE LENGTH OF THE UNDEVELOPED FLOW REGION IN THE INLET OF ASYMMETRIC BIFURCATIONS II	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	poster
Nasser Darabiha	143	EXPERIMENTAL STUDY OF THE INFLUENCE OF THE SWIRL NUMBER ON LEAN PREMIXED COMBUSTION REGIMES	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Natache Sassim	738	ANTIFOAM PERFORMANCE EVALUATION OF MEDIUM API GRAVITIES PETROLEUMS	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	poster
Natalia Galina	704	STUDY OF THE REDUCTION OF THE SERPENTINITOS PARTICLE SIZE TO INCREASE THE EFFICIENCY OF THE PROCESSES OF MINERAL CARBONATION	Combustion and Environmental Engineering	Environmental Engineering	poster
Natalia Parolari	90	FINITE ELEMENT MODEL FOR ANALYZING TEMPERATURE GRADIENT DURING TURNING PROCESS	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Natasha Conceição	160	SLIGHTLY ENHANCED SINGLE PHASE NATURAL CIRCULATION AT SMALL INCLINATION ANGLES	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Nathalia Vieira	175	Metaheuristics Optimization and Simulation of Shell and Tube Heat Exchangers	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Nathalia Heloisa Dullius	512	ANALYSIS OF A ALPHA-TYPE STIRLING ENGINE THROUGH ISOTHERMAL AND ADIABATIC MODELS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Nathan Farto	269	Solar Energy - Brazil's Analysis	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Nathan Mendes	231	Improvements in Software DOMUS about Atmospheric Radiative Exchange and Long-wave Boundary Conditions	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Nayssa Ribeiro	295	ANALYSIS OF A STEAM FACILITY IN A PULP AND PAPER INDUSTRY	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster

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Nayssa Ribeiro	804	DEVELOPMENT OF COMPUTATIONAL PROGRAM TO DETERMINE THE COST OF VAPOR PRODUCTION IN BOILERS: PHASE 1	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Neill Gustavo Bergamini Gomes	451	EXPERIMENTAL DETERMINATION OF PYROLYSIS GAS FLOWRATE IN A CHARCOALING KILN	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Nelson Rocha	764	Application of Optimization Techniques to Prediction of Parameters Wiebe Function in a Diesel Generator Set	Combustion and Environmental Engineering	Engine Combustion	poster
Nelson Rocha	790	PERFORMANCE ANALYSIS OF A DIESEL ENGINE OPERATING WITH TERNARY MIXTURES OF DIESEL, BIODIESEL AND ETHANOL.	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Nelson Rocha	795	DEVELOPMENT OF AN EXPERIMENTAL BENCH FOR THE REALIZATION OF TESTS IN DIESEL GENERATOR SETS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Nelson Yurako Londono Pabon	372	Stationary test bench for evaluation of the heat exchange of automotive radiators	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Nestor Proenza Perez	19	EVALUATION OF A COMPACT SYSTEM OF TRIGENERATION THROUGH ENERGY AND EXERGY ANALYSIS	Combustion and Environmental Engineering	Engine Combustion	oral
Neylor Makalister Ribeiro Vieira	30	ENERGY EFFICIENCY OF A SOLAR HEAT PUMP OPERATING IN NULL SOLAR RADIATION CONDITION	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Neylor Makalister Ribeiro Vieira	42	DESIGN OF A COOLING MACHINE OPERATING WITH CO2 IN SUBCRITICAL CYCLE	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	poster
Neylor Makalister Ribeiro Vieira	92	TRANSIENT ANALYSIS OF A HEAT PUMP SOLAR EVAPORATOR THROUGH A TEMPERATURE STEP	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Neylor Makalister Ribeiro Vieira	109	EXPERIMENTAL ANALYSIS OF THE OPERATION CONTROL OF A REFRIGERATING MACHINE	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Neylor Makalister Ribeiro Vieira	113	CHARACTERIZATION AND ANALYSIS OF THE EFFICIENCY OF A HERMETIC COMPRESSOR	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Nicolas Cristiano Gomes de Oliveira	689	EXPERIMENTAL STUDY OF A VAPOR COMPRESSION CYCLE PERFORMANCE BEHAVIOR	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Nícolas M. F. T. S. Araújo	810	ANALYSIS OF A SOLAR PARABOLIC DISH STIRLING ENGINE USING BRAZILIAN NORTHEAST SOLARIMETRIC DATA	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Nícolas Pinheiro Ramos	525	THERMAL PROPERTIES ESTIMATION OF METALS USING DIFFERENT THERMAL MODELS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Norberto Mangiavacchi	173	STREAM FUNCTION-VORTICITY FORMULATION APPLIED IN THE CONJUGATED HEAT PROBLEM USING THE FEM WITH UNSTRUCTURED MESH	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Norberto Mangiavacchi	509	ANISOTROPIC TRANSPORT THROUGH POLYMER LAYER AND POROUS ARTERIAL WALL WITH BINDING IN DRUG-ELUTING STENTS USING THE FEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Norberto Mangiavacchi	509	ANISOTROPIC TRANSPORT THROUGH POLYMER LAYER AND POROUS ARTERIAL WALL WITH BINDING IN DRUG-ELUTING STENTS USING THE FEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Norberto Mangiavacchi	658	DYNAMIC CHARACTERISTICS OF A NATURAL CIRCULATION LOOP WITH COOLER INTEGRATED TO A POOL WITH EVAPORATION	Nuclear Engineering	Nuclear Engineering	oral
Odenir de Almeida	2	NUMERICAL AND EXPERIMENTAL STUDY OF THE FLOW OVER A REALISTIC PICKUP MODEL	Aerospace Engineering	Aerodynamics	oral
Olaf Marxen	500	Direct numerical simulation of vacillation in centrifugal convection	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Oscar Mauricio Hernandez Rodriguez	499	ESTIMATION OF GAS-LIQUID FLOW PATTERNS UTILIZING MACHINE LEARNING METHODS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Oscar Mauricio Hernandez Rodriguez	562	GAS-LIQUID FLOW-PATTERN TRANSITION IN HORIZONTAL PIPES – ANALYSIS OF REPORTED MODELS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Oscar Mauricio Hernandez Rodriguez	630	EXPERIMENTAL EVALUATION OF EFFICIENCY OF GAS SEPARATION IN AN INVERTED-SHROUD GAS-LIQUID SEPARATOR IN VERTICAL POSITION	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Oscar Ricardo Sandoval Rodriguez	92	TRANSIENT ANALYSIS OF A HEAT PUMP SOLAR EVAPORATOR THROUGH A TEMPERATURE STEP	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Oscar Ricardo Sandoval Rodriguez	437	ANALYSIS OF THE VIABILITY OF STIRLING ENGINES OPERATING WITH BIOGAS OF BRAZILIAN LIVESTOCK	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Osvaldo Jose Venturini	100	Fault Detection and Diagnosis in a Refrigeration System Using Thermoeconomic Methodology and Artificial Intelligence	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Osvaldo Jose Venturini	100	Fault Detection and Diagnosis in a Refrigeration System Using Thermoeconomic Methodology and Artificial Intelligence	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Osvaldo Jose Venturini	199	SOLAR RAY-TRACING SIMULATION AND THERMAL ANALYSIS OF A DISH STIRLING RECEIVER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Osvaldo Jose Venturini	199	SOLAR RAY-TRACING SIMULATION AND THERMAL ANALYSIS OF A DISH STIRLING RECEIVER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Osvaldo Jose Venturini	268	Production of electricity from biogas generated by Sapucaí ETS	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Osvaldo Jose Venturini	268	Production of electricity from biogas generated by Sapucaí ETS	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral

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Oswaldo Jose Venturini	274	THE ACOUSTIC ENHANCEMENT ANALYSES IN THE COMBUSTION PARAMETERS OF THE EUCALYPTUS FIREWOOD.	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Oswaldo Jose Venturini	535	Solar Industrial Steam Production Technologies: Comparison Through Modeling, Simulation, and Economic Assessment	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Oswaldo Jose Venturini	564	TECHNO-ECONOMIC ANALYSIS AND SIZING OF DISH-STIRLING POWER PLANTS.	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Oswaldo Jose Venturini	806	Exergoeconomic analysis of conventional and advanced cogeneration systems for the Brazilian sugar and alcohol industry	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Palloma Thainara Rodrigues	213	A PROPOSE FOR AN ORGANIC RANKINE CYCLE COGENERATION SYSTEM	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
paola baia	363	Analysis of the Specific Fuel Consumption of a Diesel Generator Set Influenced by the Cooling Fluid Temperature.	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Patrick Oosthuizen	317	NUMERICAL SIMULATION OF NATURAL CONVECTION OVER A HORIZONTAL PLATE	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Patrick de Jesus	504	EFFECT OF MOISTURE AND PARTICLE SIZE ON THE COMBUSTION CHARACTERISTICS OF SEWAGE SLUDGE IN A FIXED BED	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
patrick melo	818	THE GROWTH OF WIND ENERGY, ENVIRONMENT AND SUSTAINABILITY IN BRAZIL	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Paula Crnkovic	398	TEMPERATURE PROFILES INSIDE THE COMBUSTION CHAMBER OF A DROP TUBE FURNACE (DTF) FOR THE DIFFERENT THERMAL PROCESSES AND BIOMASSES	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
PAULO PAGOT	24	Application of the SA Optimisation Method to the Correlated WMP Radiation Model for Flames	Energy and Thermal Sciences	Numerical Heat Transfer	oral
PAULO PAGOT	250	COMPUTATION OF A LAMINAR DIFFUSION ETHYLENE/AIR FLAME CONSIDERING SOOT FORMATION AND THE WEIGHTED-SUM-OF-GRAY-GASES MODEL	Energy and Thermal Sciences	Numerical Heat Transfer	oral
PAULO PAGOT	410	EVALUATION OF FLAME LENGTH IN MULTI-JET NON-PREMIXED NATURAL GAS FLAMES DILUTED WITH CO2	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Paulo Toro	56	DESIGN OF THE GENERIC SCRAMJET COMBUSTION CHAMBER	Aerospace Engineering	Propulsion	oral
Paulo Toro	72	DESIGN OF AN ACADEMIC SCRAMJET FOR ATMOSPHERIC CAPTIVE FLIGHT AT MACH NUMBER 4.18 COUPLED TO A ROCKET FTI	Aerospace Engineering	Propulsion	poster
Paulo Toro	74	A NEW APPROACH TO OPTIMIZE THE SCRAMJET INLET DESIGN APPLYING THE TOTAL PRESSURE RECOVERY	Aerospace Engineering	Propulsion	poster
Paulo Toro	107	NUMERICAL ANALYSIS OF A GENERIC SCRAMJET AIR INLET	Aerospace Engineering	Propulsion	poster
Paulo Toro	177	THERMAL ANALYSIS OF THE GENERIC SCRAMJET FLYING AT 30 KM ALTITUDE WITH MACH NUMBER 6.8	Aerospace Engineering	Propulsion	oral
Paulo Toro	181	CHEMICAL REACTIONS MODEL APPLIED TO SUPERSONIC COMBUSTION	Aerospace Engineering	Propulsion	oral
Paulo Toro	186	PRELIMINARY THERMAL PROTECTION SYSTEM FOR THE 14-X S SCRAMJET TECHNOLOGICAL DEMONSTRATOR FOR ATMOSPHERIC FLIGHT AT 30 KM ALTITUDE AND SPEED CORRESPONDING TO MACH NUMBER 7	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Paulo Toro	192	DESIGN AND ANALYSIS OF A SCRAMJET INLET AND COMBUSTION CHAMBER FOR HEAT ADDITION RATE INVESTIGAT	Aerospace Engineering	Propulsion	poster
Paulo Toro	193	UFRN'S INWARD ACADEMIC SCRAMJET COUPLED TO FTI ROCKET MOTOR TO DEMONSTRATE SUPERSONIC COMBUSTION	Aerospace Engineering	Propulsion	poster
Paulo Toro	219	SU ² CFD simulation of the Hypersonic Technological Demonstrator 14-X B at flight Mach number 7	Aerospace Engineering	Propulsion	poster
Paulo Toro	416	OPTICAL DESIGN FOR LASER PROPULSION SYSTEM	Aerospace Engineering	Propulsion	poster
Paulo Toro	462	HEAT FLUX AND THERMODYNAMIC PROPERTIES ANALYSIS AT THE STAGNATION POINT AND THE BLUNT REGION OF THE 14-X S SCRAMJET ENGINE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Paulo Toro	751	DESIGN AND ANALYSIS OF A GENERIC SCRAMJET AIR INLET	Aerospace Engineering	Propulsion	poster
Paulo Toro	789	Aerodynamic analysis of a scramjet for atmospheric flight	Aerospace Engineering	Propulsion	poster
Paulo Toro	817	EQUILIBRIUM AND PERFECT GAS AIR BEHAVIOR IN THE STAGNATION REGION	Aerospace Engineering	Propulsion	poster
Paulo Alexandre Costa Rocha	417	CUCKOO SEARCH ALGORITHM IN WIND ENERGY APPLICATION FOR A BRAZILIAN SITE	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Paulo Alexandre Costa Rocha	425	HARMONY SEARCH ALGORITHM APPLIED TO WIND ENERGY: DETERMINATION OF WEIBULL CURVE PARAMETERS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Paulo Alexandre Costa Rocha	733	IMPERIALIST COMPETITIVE ALGORITHM APPLIED TO WINDENERGY FOR A BRAZILIAN SITE AT PARAIBA	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Paulo Alexandre Costa Rocha	735	DETERMINATION OF WEIBULL CURVE PARAMETERS APPLIED TO WIND ENERGY BY PARTICLE SWARM OPTIMIZATION	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Paulo Alexandre Costa Rocha	739	HEURISTIC METHODOLOGY APPLIED TO WIND ENERGY: DETERMINATION OF WEIBULL CURVE PARAMETERS BY ANT COLONY OPTIMIZATION	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster

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Paulo Alexandre Costa Rocha	744	MIGRATORY BIRDS OPTIMIZATION APPLIED TO WIND ENERGY FOR PETROLINA, BRAZIL	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Paulo Alexandre Costa Rocha	831	TESTS OF ARRANGEMENT IN A PROTOTYPE OF A STEAM GENERATOR IN AN ABSORPTION REFRIGERATION SYSTEM	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Paulo Bufacchi	675	NUMERICAL SIMULATIONS OF FLAMMABILITY EXPERIMENTS IN LITTER FUELS IN THE BRAZILIAN AMAZON	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Paulo Cesar Mioralli	435	ANALYSIS OF THE THERMAL EFFICIENCY OF A SOLAR THERMAL COLLECTOR FOR LOW-INCOME FAMILIES	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Paulo Cesar Mioralli	649	THERMAL ANALYSIS OF A TUBELESS FLAT-PLATE SOLAR COLLECTOR	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Paulo Costa	708	NUMERICAL SIMULATION TO ANALYZE THE RADIATOR OF A POWER TRANSFORMER	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Paulo Eduardo Batista de Mello	282	Deterministic model for the simulation of scroll expanders: preliminary results	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Paulo Eduardo Batista de Mello	391	Sizing procedure of a scroll expander prototype for ORC applications	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
PAULO HENRIQUE DIAS DOS SANTOS	454	EXPERIMENTAL HYDRODYNAMICS OF INTERACTING GAS BUBBLES AND OIL DROPLETS: ATTACHMENT PHENOMENA	Fluid Mechanics and Rheology	Multi-phase Flow	oral
PAULO HENRIQUE DIAS DOS SANTOS	481	THICKNESS INFLUENCE OF THE COPPER POWDER SINTERED CAPILLARY STRUCTURE IN THE THERMAL PERFORMANCE OF HEAT PIPES	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
PAULO HENRIQUE DIAS DOS SANTOS	494	TWO-PHASE FLOW IN A ROCK-FLOW CELL: COMPARISON OF VOF-ISOADVECTOR MODEL WITH EXPERIMENTS	Fluid Mechanics and Rheology	Multi-phase Flow	poster
PAULO HENRIQUE DIAS DOS SANTOS	495	NUMERICAL ANALYSIS OF A LIQUID-GAS TWO-PHASE FLOW IN A DISTRIBUTION SYSTEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
PAULO HENRIQUE DIAS DOS SANTOS	668	EXPERIMENTAL STUDY OF BOILING PHENOMENON IN THE EVAPORATOR OF A GLASS THERMOSYPHON	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
PAULO LEITE	414	EFFECTS OF STEP HEIGHT AND POSITION ON THERMAL AND PRESSURE LOADS OF A RAREFIED HYPERSONIC FLOW OVER FORWARD-FACING STEPS	Aerospace Engineering	Aerodynamics	oral
Paulo Roberto de Souza Mendes	153	RHEOLOGICAL MODIFIERS IN DRILLING FLUIDS	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Paulo Roberto Wander	91	PERFORMANCE ANALYSIS OF A COMBINED CYCLE FOR ELECTRICITY GENERATION WITH GAS TURBINE COMPRESSOR INLET AIR COOLING BY EVAPORATIVE COOLING	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Paulo Smith Schneider	167	Free Cooling Potential for Data Centers in Brazil	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Paulo Smith Schneider	178	INTEGRAL PREDICTION MODEL OF PROCESS PARAMETERS AND POLLUTANT FORMATION FOR A COAL-FIRED THERMAL POWER PLANT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Paulo Smith Schneider	207	EVALUATION OF AN ARTIFICIAL NEURAL NETWORK MODEL COMPARED WITH A REGRESSION MODEL TO ESTIMATE THE STEAM FLOW GENERATION OF A REAL THERMOELECTRIC POWER PLANT DATA	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Paulo Smith Schneider	724	ANALYSIS OF THE EFFECTS OF PERIODIC MAINTENANCE OF AGRICULTURAL TRACTORS THROUGH THE METHOD OF EXPERIMENTAL PLANNING	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Paulo Smith Schneider	832	ENERGY PENALTY MODEL FOR FLUE GAS DESULFURIZATION SYSTEMS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Paulo Teixeira	57	A NOVEL OPTIMIZATION METHODOLOGY APPLIED TO PARAMETERS OF HEAT SOURCES IN WELDING NUMERICAL SIMULATIONS	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Paulo Trevizoli	328	DESIGN AND ASSEMBLING OF A MAGNETIC CIRCUIT FOR A THERMOMAGNETIC MOTOR APPARATUS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Pedro Silva	792	Simulation of a Diesel Engine Using AVL FIRE Software	Combustion and Environmental Engineering	Engine Combustion	poster
Pedro Augusto Braz Fragoso de Sousa	271	SIMULATION OF CSP POWER PLANTS IN THE WESTERN MESOREGION OF THE STATE OF RIO GRANDE DO NORTE – BR	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Pedro Bellani	456	A THEORETICAL ANALYSIS FOR PRESSURE DROP AND HEAT TRANSFER IN CORRUGATED PLATE HEAT EXCHANGERS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Pedro David Bravo-Mosquera	265	Aerodynamic Heating Effect on Roughness, Aerodynamic Coefficients and Power Output of Aerogenerators: A Discussion	Aerospace Engineering	Aerodynamics	poster
Pedro Felipe Lavra Dias	338	COOLING SIMULATION OF A CARBON-STEEL ABNT 1025 USING THE FINITE DIFFERENCES METHOD	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Pedro Ferreira Nicoloso	410	EVALUATION OF FLAME LENGTH IN MULTI-JET NON-PREMIXED NATURAL GAS FLAMES DILUTED WITH CO ₂	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Pedro Gonçalves	105	THEORETICAL ANALYSIS OF THE TEMPERATURE DYNAMICS FOR DIFFERENT CONCENTRATIONS OF THE WATER-ALCOHOL MIXTURE INSIDE A CYLINDRICAL TUBE	Energy and Thermal Sciences	Numerical Heat Transfer	poster

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Pedro Gonçalves	343	A Study of the Laminar Thermal Boundary Layer in Round Ducts Using GITT	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Pedro Gonçalves	461	STUDY OF LAMINAR FORCED CONVECTION FOR DIFFERENT CONCENTRATIONS OF THE WATER-LITHIUM BROMIDE MIXTURE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Pedro José Miranda Lugo	630	EXPERIMENTAL EVALUATION OF EFFICIENCY OF GAS SEPARATION IN AN INVERTED-SHROUD GAS-LIQUID SEPARATOR IN VERTICAL POSITION	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Pedro Lacava	38	SWIRL NUMBER INFLUENCE ON POLLUTANT EMISSIONS IN A TWO PHASE SWIRL COMBUSTOR	Aerospace Engineering	Propulsion	poster
Pedro Leineker Ochoski Machado	583	Computational Simulation of Particulate Flow Aiming the Plugging of Drilling Wells Fractures	Fluid Mechanics and Rheology	Multi-phase Flow	poster
PEDRO MAGALHÃES SOBRINHO SOBRINHO	163	COGENERATION SYSTEM APPLIED IN BIODIESEL PRODUCTION: ENERGY, EXERGY AND ECONOMICAL ANALYSIS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
PEDRO MAGALHÃES SOBRINHO SOBRINHO	405	Feasibility review for automation and mechanical improvements on cooling towers	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Pedro Rodrigues	485	PARAMETER ESTIMATION IN A SIMULATION OF TWO-DIMENSIONAL SEDIMENT TRANSPORT USING INTEGRAL TRANSFORM AND BAYESIAN INFERENCE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Pedro Teixeira	270	NUMERICAL SIMULATION OF FLOW IN A PATIENT WITH ASCENDING AORTIC ANEURYSM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Pedro Vayssiere Brandão	602	STABILITY OF A RAYLEIGH-BENARD POISEUILLE FLOW CONSIDERING A CARREAU FLUID	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Philipe Firmino	418	COANDA EFFECT ANALYSIS IN THE BANDEIRANTE AIRCRAFT AERODYNAMIC PROFILE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Pollyana Bento	539	MATHEMATICAL / NUMERICAL MODELING OF A FREE PISTON LINEAR ELECTRIC GENERATOR	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Priscila de Jesus Freitas Pinto	701	COMMERCIAL AND RESIDENTIAL TECHNO-ECONOMIC ANALYSIS OF A GRID-CONNECTED PV SYSTEM – RIO DE JANEIRO'S CASE STUDY	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	oral
Raama Alves	700	WEB SYSTEM FOR WEATHER DATA PROCESSING TO HVAC DESIGN	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	oral
Rachel Manhaes de Lucena	509	ANISOTROPIC TRANSPORT THROUGH POLYMER LAYER AND POROUS ARTERIAL WALL WITH BINDING IN DRUG-ELUTING STENTS USING THE FEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Rachel Manhaes de Lucena	509	ANISOTROPIC TRANSPORT THROUGH POLYMER LAYER AND POROUS ARTERIAL WALL WITH BINDING IN DRUG-ELUTING STENTS USING THE FEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Rafael Gontijo	39	ANALYSIS OF MAGNETIC FLUID DISPLACEMENT IN CAPILLARIES	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Rafael Gontijo	189	NUMERICAL SIMULATIONS OF THERMOMAGNETIC CONVECTION INSIDE A THIN CAVITY	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Rafael Gontijo	202	MAGNETIZATION DYNAMICS IN FERROFLUIDS: A DYNAMICAL SYSTEM APPROACH	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Rafael Gontijo	483	DISTRIBUTION ENTROPY AS TOOL TO QUANTIFY DIFFUSION	Nano and Microfluidic and Micro-Systems	Micro and Nanofluidics	oral
RAFAEL AUGUSTO SILVA	806	Exergoeconomic analysis of conventional and advanced cogeneration systems for the Brazilian sugar and alcohol industry	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
RAFAEL AUGUSTO SILVA	806	Exergoeconomic analysis of conventional and advanced cogeneration systems for the Brazilian sugar and alcohol industry	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Rafael Boschini Albuquerque Passarella	563	CHARACTERISTICS OF THE USE OF CO2 IN CASCADE REFRIGERATION SYSTEMS AND FOR POWER GENERATION IN BRAYTON CYCLES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Rafael Castilho Faria Mendes	515	SMOKE VISUALIZATION IN HYDROKINETIC TURBINES	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	poster
Rafael Da Silva	737	CONSTRUCTION AND DIMENSIONING OF A DIDACTIC EXPERIMENT FOR HYDRAULIC ANALYSIS	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	poster
Rafael Dunaiski	651	NUMERICAL EVALUATION OF THE TWO-PHASE FLOW IN A RADIAL CENTRIFUGAL PUMP	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	oral
Rafael Fabricio Alves	647	Experimental Analysis of Slug Flow Evolution in Horizontal Pipes	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Rafael Franklin Lazaro de Cerqueira	337	DEVELOPMENT OF A PARTICLE TRACKING VELOCITY MEASUREMENT TECHNIQUE FOR THE STUDY OF GAS-LIQUID FLOWS WITH DIFFERENT INTERFACIAL LENGTH SCALES IN VERTICAL PIPES	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Rafael Franklin Lazaro de Cerqueira	788	DEVELOPMENT OF A DYNAMIC MASKING PROCEDURE FOR THE TAYLOR BUBBLE IDENTIFICATION IN THE PIV/LIF TECNHIQUE APPLICATION FOR SLUG FLOW	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Rafael Mafra	648	HEAT TRANSFER STUDY OF DRY-TYPE TRANSFORMER	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Rafael Megale de Oliveira	457	PROPOSAL TO OPTIMIZE THE PERFORMANCE OF THE LONGITUDINAL ACCELERATION OF A VEHICLE PROTOTYPE	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster
Rafael Megale de Oliveira	726	LONGITUDINAL ACCELERATION OF A VEHICLE PROTOTYPE	Combustion and Environmental Engineering	Engine Combustion	poster

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Rafael Monteiro	366	COMPARISON BETWEEN SOLAR TRACKING SYSTEMS DEVELOPED FROM MATHEMATICAL MODELS OF SOLAR GEOMETRY AND LDR SENSORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Rafael Monteiro	387	OPTIMIZATION AND EXERGETIC ANALYSIS OF A REGENERATIVE CYCLE USING BIOGAS COMBINED WITH HYDROGEN AS FUEL	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Rafael Paiva Garcia	603	LOW COST THERMAL PYRANOMETER USING DALLAS DS18B20 SENSOR AND ARDUINO	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Rafael Paiva Garcia	606	THERMAL RADIOMETER USING LM35 ANALOG SENSORS, CONNECTED TO AN ARDUINO BOARD	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Rafael Perin	415	EVALUATION OF THE LAMINAR BURNING VELOCITY OF A SYNGAS MIXTURE IN OXY-COMBUSTION	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Rafael Pinho Furtado	476	PARAMETRIC STUDY OF GAS TURBINES OPERATION AT OFF-DESING CONDITIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Rafael Sene de Lima	327	GASIFICATION STUDY OF EUCALYPTUS WOOD BASED ON THERMODYNAMIC CHEMICAL EQUILIBRIUM	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Rafael Torres Teixeira	277	NUMERICAL SIMULATION FOR REDUCED CHEMICAL KINETIC MECHANISM: A CASE FOR CARBON MONOXIDE AND HYDROGEN	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Rafaela Boaventura	174	INFLUENCE OF THE VARIATION OF THE INJECTION POINT IN THE PERFORMANCE OF A DIESEL ENGINE	Combustion and Environmental Engineering	Engine Combustion	poster
Rafaela Sehnem	277	NUMERICAL SIMULATION FOR REDUCED CHEMICAL KINETIC MECHANISM: A CASE FOR CARBON MONOXIDE AND HYDROGEN	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Rafaela Sehnem	291	ASYMPTOTIC ANALYSIS OF METHANE REDUCED KINETIC MECHANISM	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Rafael Andrade	290	RHEOLOGICAL STUDY OF GAS HYDRATE FORMATION; EFFECTS CAUSED BY THE ADDITION OF GAS CONDENSATE TO THE WATER-IN-OIL EMULSIONS.	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Raimundo Duarte	308	PERFORMANCE ANALYSIS OF A HORIZONTAL WIND TURBINE EMPLOYING NUMERICAL SIMULATION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Raíssa Araújo	694	CONSTRUCTION OF A BASIC REFRIGERATION SYSTEM SIMULATOR	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Ramaiana M. Davies	668	EXPERIMENTAL STUDY OF BOILING PHENOMENON IN THE EVAPORATOR OF A GLASS THERMOSYPHON	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Ramon Carneiro	56	DESIGN OF THE GENERIC SCRAMJET COMBUSTION CHAMBER	Aerospace Engineering	Propulsion	oral
Ramon Carneiro	751	DESIGN AND ANALYSIS OF A GENERIC SCRAMJET AIR INLET	Aerospace Engineering	Propulsion	poster
Ramon Carneiro	817	EQUILIBRIUM AND PERFECT GAS AIR BEHAVIOR IN THE STAGNATION REGION	Aerospace Engineering	Propulsion	poster
Ramon Eduardo Pereira Silva	670	DIMENSIONING OF A COMBUSTION CHAMBER FOR MICROTURBINE BASED ON AUTOMOTIVE TURBOCHARGER	Combustion and Environmental Engineering	Engine Combustion	poster
Ramon Molina Valle	437	ANALYSIS OF THE VIABILITY OF STIRLING ENGINES OPERATING WITH BIOGAS OF BRAZILIAN LIVESTOCK	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Ramon Molina Valle	541	ANALYSIS OF THE COMBUSTION PROCESS IN A ADAPTED ENGINE WITH PRE-CAMERA USING AN EXPERIMENTAL MODEL AND THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Engine Combustion	oral
Ramon Molina Valle	541	ANALYSIS OF THE COMBUSTION PROCESS IN A ADAPTED ENGINE WITH PRE-CAMERA USING AN EXPERIMENTAL MODEL AND THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Engine Combustion	oral
Ramón Sigifredo Cortés Paredes	31	ENABLE THE POSSIBILITY OF DEPOSITION ON PTFE SUBSTRATE COATING POWDER MIXTURE COMPOSED OF TITANIUM (Ti CP) AND PTFE THROUGH FLAME THERMAL SPRAY PROCESS	Bioengineering	Bioengineering	poster
Raphael Carvalho	80	APPLICATION OF WAF-TV D SCHEME FOR WATER HAMMER EQUATIONS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Raphael Lima de Paiva	823	ADJUSTING THE WEIBULL CURVE USING NUMERICAL METHODS AND HEURISTIC METHODS AND CALCULATION OF POTENTIAL IN WIND ENERGY	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Raphael Nunes de Oliveira	53	COLD STORAGE CHAMBER DESIGN FOR FISHING BOATS IN THE REGION OF SALGADO, AMAZON	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Raphael Ponce Gabri	161	Modelling and analysis of closed loop two-phase thermosyphon	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Raquel da Cunha Ribeiro da Silva	136	Numerical Analysis of the Minimization of Frost Formation in Flat Plate With Different Coatings	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Raquel Miguez de Carvalho	61	NUMERICAL STUDY OF A SOLAR LITHIUM BROMIDE-WATER ABSORPTION COOLING SYSTEM	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Raul Farias	817	EQUILIBRIUM AND PERFECT GAS AIR BEHAVIOR IN THE STAGNATION REGION	Aerospace Engineering	Propulsion	poster
Rebecca Pinto da Silva Godoy	356	THERMOCHEMICAL EQUILIBRIUM MODELING FOR AIR GASIFICATION OF WASTE TIRES	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster
Regina Francielle Silva Paulino	10	Ecological aspects of electrolytic hydrogen: comparing renewable and non-renewable sources	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Regina Francielle Silva Paulino	589	POTENTIAL OF BIOHYDROGEN PRODUCTION IN LANDFILLS OF THE CITY OF SÃO PAULO: ELECTROLYSIS X STEAM REFORM	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster

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Reginaldo Ribeiro Sousa	157	NUMERICAL ANALYSIS AND EFFICIENCY OF A VAPOR CHAMBER	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Regis Sperotto de Quadros	277	NUMERICAL SIMULATION FOR REDUCED CHEMICAL KINETIC MECHANISM: A CASE FOR CARBON MONOXIDE AND HYDROGEN	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Regis Sperotto de Quadros	291	ASYMPTOTIC ANALYSIS OF METHANE REDUCED KINETIC MECHANISM	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Régis Zorzo	601	FERROFLUID DROPLET HEATING AND VAPORIZATION UNDER LOW MAGNETIC POWER	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Régis Zorzo	601	HEATING AND VAPORIZATION OF FERROFLUID DROPLET	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Reinaldo Rodrigues de Souza	497	BOILING HEAT TRANSFER BEHAVIOR FOR NANOCOATED SURFACES UNDER CONFINED CONDITIONS	Nano and Microfluidic and Micro-Systems	Micro and Nanofluidics	oral
Reinaldo Rodrigues de Souza	786	THERMAL ANALYSIS OF A PHOTOVOLTAIC SYSTEM WITH SOLAR TRACKING MIRRORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
reinaldo souza	484	CRITERION FOR PRIORIZATION OF THE BRAZILIAN ECONOMY SECTORS VIS-À-VIS THE CONSUMPTION OF ENERGY AND GENERATING SOURCES	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Renan Cristofori Lima de Oliveira	571	THERMOECONOMIC OPTIMIZATION OF ABSORPTION CHILLER SUPERSTRUCTURES FOR AN INTERNAL COMBUSTION ENGINE; WASTE HEAT RECOVERY AND COLD-WATER APPLICATIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Renan Cristofori Lima de Oliveira	578	OPTIMIZATION OF THE WASTE HEAT RECOVERY SUPERSTRUCTURES FOR LARGE STATIONARY DIESEL ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Renato Candido Reis	786	THERMAL ANALYSIS OF A PHOTOVOLTAIC SYSTEM WITH SOLAR TRACKING MIRRORS	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Renato Siqueira	102	EFFECT OF THE AGING PROCESS ON THE PERFORMANCE OF ALOE VERA AS DRAG REDUCER	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Renato Siqueira	104	EFFICIENCY OF ALOE ARBORESCENS AND ALOE BARBADENSIS SPECIES AS DRAG REDUCERS	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Renato Siqueira	108	Drag Reduction by Biopolymers – Influence of Okra Variety and Maturity Index on Additive Efficiency	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Rene Gonçalves	760	ANALYSIS OF MOISTURE ADSORPTION ISOTHERMS FOR ROASTED AND RAW BIOMASSES	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Rene Gonçalves	797	EFFECTS OF O3 ADDITION ON AMMONIUM PERCHLORATE-BASED SOLID PROPELLANT COMBUSTION	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Rene Gonçalves	798	BEHAVIOR ANALYSIS SIMULATION OF SOLID PROPELLANT ROCKET ENGINE.	Aerospace Engineering	Propulsion	poster
Rennan Jackson Ferreira Macedo	613	ADAPTATION OF A DIESEL MWM ENGINE, STACIONARY, MODEL 229/4, TO WORK WITH BIOFUEL: DIESEL-NATURAL GAS	Aerospace Engineering	Propulsion	poster
Réydila Barbosa	575	EXPERIMENTAL ANALYSIS OF BANANA DRYING IN AN ELECTRIC HYBRID SOLAR DRYER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Reynaldo Palacios	237	COMPARISON BETWEEN TWO ALTERNATIVES FOR THE ENERGY USE OF VINASSE: CONCENTRATION-INCINERATION VS BIODIGESTION	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Ricardo Pereira	614	EXPERIMENTAL ANALYSIS IN A DIESEL GENERATOR SET CONSUMING FUEL B7, WITH HHO GAS INJECTION IN THE AIR OF ADMISSION	Combustion and Environmental Engineering	Engine Combustion	poster
Ricardo Pereira	764	Application of Optimization Techniques to Prediction of Parameters Wiebe Function in a Diesel Generator Set	Combustion and Environmental Engineering	Engine Combustion	poster
Ricardo Pereira	780	EFFECTS OF THE ADDITION OF HYDROGEN IN THE DIESEL ENGINE ADMISSION AIR CONSUMING FUEL B7 - NUMERICAL AND EXPERIMENTAL APPROACH	Combustion and Environmental Engineering	Engine Combustion	poster
Ricardo Bazarin	576	PORE-SCALE SIMULATION OF DISPLACING IMMISCIBLE FLUIDS IN A SECOND ORDER OF SIERPINSKI CARPET POROUS MEDIA USING A LATTICE-BOLTZMANN METHOD.	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Ricardo Campos	373	IMPACTS ON THE PARAMETERS OF WIEBE FUNCTION WITH LOAD VARIATION IN COMPRESSION IGNITION ENGINES	Combustion and Environmental Engineering	Engine Combustion	poster
Ricardo Carpio	548	Optimization Techniques for the Dosing of Fuels in Parallel Flow Regenerative Kilns	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Ricardo Galdino da Silva	426	Study of Aerodynamic Flows Using Unstructured Grids and a Correlation-Based Transition Model	Aerospace Engineering	Aerodynamics	oral
RICARDO GOMES FELIX JUNIOR	645	THERMAL EFFICIENCY ANALYSIS OF A LPG WATER HEATER	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
RICARDO GOMES FELIX JUNIOR	673	Boiling comparative analysis in metallic container and vitreous container	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
RICARDO GOMES FELIX JUNIOR	714	FLOW MACHINE WITH EXTERNAL COMBUSTION, AIR DRAG	Combustion and Environmental Engineering	Engine Combustion	poster
RICARDO GOMES FELIX JUNIOR	714	FLOW MACHINE WITH EXTERNAL COMBUSTION, AIR DRAG	Combustion and Environmental Engineering	Engine Combustion	poster
Ricardo José Pontes Lima	831	TESTS OF ARRANGEMENT IN A PROTOTYPE OF A STEAM GENERATOR IN AN ABSORPTION REFRIGERATION SYSTEM	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Ricardo Linhares	624	ASYMMETRIC TAYLOR BUBBLE RISING AGAINST DOWNWARD FLOW	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Ricardo Luiz Utsch de Freitas Pinto	148	Aerodynamic optimization of high aspect ratio wings for application in unmanned aerial vehicles (UAV's)	Aerospace Engineering	Aerodynamics	oral

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Ricardo Poley Martins Ferreira	440	Optimization of the control parameters of a vehicle's electric fan activated by PWM	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Ricardo Poley Martins Ferreira	534	ENERGY OPTIMIZATION OF EXPERIMENTAL BENCH TEST FOR STUDY OF INTERNAL HEAT TRANSFER COEFICIENT IN QUENCHING BY IMMERSION OF TUBES	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Ricardo Salvo	327	GASIFICATION STUDY OF EUCALYPTUS WOOD BASED ON THERMODYNAMIC CHEMICAL EQUILIBRIUM	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Ricardo Silva Agostinho	822	PERFORMANCE CONTROL AND ANALYSIS OF A PARABOLIC SOLAR CONCENTRATOR USED FOR WATER HEATING	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
RICHARDSON NUNES	554	SIMULATION OF A SMALL SCALE ORGANIC RANKINE CYCLE	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Rigoberto Morales	454	EXPERIMENTAL HYDRODYNAMICS OF INTERACTING GAS BUBBLES AND OIL DROPLETS: ATTACHMENT PHENOMENA	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Rigoberto Morales	491	Revisited Model for Inward and Outward Growth of Gas Hydrate Particles in Water-in-Oil Emulsions	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Rigoberto Morales	494	TWO-PHASE FLOW IN A ROCK-FLOW CELL: COMPARISON OF VOF-ISOADVECTOR MODEL WITH EXPERIMENTS	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Rigoberto Morales	495	NUMERICAL ANALYSIS OF A LIQUID-GAS TWO-PHASE FLOW IN A DISTRIBUTION SYSTEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Rigoberto Morales	511	EXPERIMENTAL STUDY OF HYDRATE FORMATION IN NON EMULSIFYING OIL SYSTEMS IN SHUT-IN AND RESTART CONDITIONS	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
Rigoberto Morales	517	WATER-ALCOHOL-HYDROCARBONS VLE AND VLLE: PREDICTION OF ALCOHOL PARTITION COEFFICIENT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Rigoberto Morales	519	COLD FLOW HYDRATE MANAGEMENT METHODS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Rigoberto Morales	528	STUDY OF DIFFERENT METHODOLOGIES FOR INITIATION OF SLUG FLOW USING A LAGRANGIAN SLUG TRACKING MODEL	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Rigoberto Morales	530	EXPERIMENTAL PHASE EQUILIBRIUM OF CARBON DIOXIDE HYDRATES WITH MEG ABOVE THE UPPER QUADRUPLE POINT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Rigoberto Morales	532	EXPERIMENTAL ANALYSIS OF HORIZONTAL AIR-WATER SLUG FLOW PRESSURE DROP IN CORRUGATED PIPES	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Rigoberto Morales	635	EXPERIMENTAL PHASE EQUILIBRIUM FOR METHANE HYDRATES IN INHIBITED SYSTEMS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Rigoberto Morales	647	Experimental Analysis of Slug Flow Evolution in Horizontal Pipes	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Rigoberto Morales	651	NUMERICAL EVALUATION OF THE TWO-PHASE FLOW IN A RADIAL CENTRIFUGAL PUMP	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	oral
Rigoberto Morales	654	EXPERIMENTAL OBSERVATIONS OF THE BEHAVIOR OF SINGLE BUBBLES RISING IN CONFINED GEOMETRIES	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Roberta Fatima Neumeister	71	ANALYSIS OF WAKE VELOCITIES AND PRESSURE FLUCTUATIONS IN A BISTABLE FLOW USING HILBERT-HUANG TRANSFORM AND WAVELETS	Flow Induced Vibration	Flow Induced Vibration	oral
Roberta Juliana Collet da Fonseca	36	A proposed correction of the cumulative wavenumber method in the determination of the radiative heat flux	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Roberta Juliana Collet da Fonseca	834	RADIATIVE TRANSFER PREDICTION IN PARTICIPATING MEDIUM BOUNDED WITH NONGRAY WALLS USING THE SLW MODEL	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Roberta Kamei Rodrigues	153	RHEOLOGICAL MODIFIERS IN DRILLING FLUIDS	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Roberta Reis Ribeiro	752	EFFECTS OF POROSITY AND MEAN PARTICLE DIAMETER ON PERFORMANCE OF A SOLAR VOLUMETRIC RECEIVER	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Roberto Guilherme Lopes	785	Numerical Simulations of a Rocket Engine Internal Flow	Aerospace Engineering	Propulsion	poster
Roberto Wolf Francisco Jr.	621	EXPERIMENTAL INVESTIGATION OF THE FUEL DROPLETS EVAPORATION FOR BLENDED FUELS	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Roberto Wolf Francisco Jr.	626	ANALYSIS OF THE GASIFICATION OF BIOMASS PELLETS AND INFLUENCES OF DIFFERENT COMPOSITION	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Roberto Wolf Francisco Jr.	728	A COMPARISON BETWEEN TWO DIFFERENT CONFIGURATION RADIANT POROUS BURNER FOR PREMIXED COMBUSTION	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Robson Figueiredo	470	DEVELOPMENT OF A MONITORING SYSTEM APPLIED TO A DIESEL GENERATOR WITH ELECTROLYSIS GAS INJECTION FOR REDUCING FUEL CONSUMPTION	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Robson Leal da Silva	240	HOT-WIRE ANEMOMETERS: DESIGN AND ENGINEERING APPLICATIONS	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster

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Robson Leal da Silva	295	ANALYSIS OF A STEAM FACILITY IN A PULP AND PAPER INDUSTRY	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Robson Leal da Silva	345	Eucalyptus wood drying at different temperatures and aspect ratios	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Roderick Gustavo Pivovarski	669	A Numerical Method for High Resolution Simulations of Solid-liquid Flows Using DEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Roderick Gustavo Pivovarski	787	COMPUTATIONAL FLUID DYNAMICS AND HEAT TRANSFER IN ROTATING PDC DRILL BIT UNDER DIRECT AND REVERSE CIRCULATION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Rodrigo Canestraro Quadros	180	Comparison Between Turbulence Models Over Magnus Effect	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Rodrigo Corrêa da Silva	327	GASIFICATION STUDY OF EUCALYPTUS WOOD BASED ON THERMODYNAMIC CHEMICAL EQUILIBRIUM	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	oral
Rodrigo Donni	724	ANALYSIS OF THE EFFECTS OF PERIODIC MAINTENANCE OF AGRICULTURAL TRACTORS THROUGH THE METHOD OF EXPERIMENTAL PLANNING	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Rodrigo Gustavo Dourado da Silva	586	A Time Traveling Regularization Method For Three Dimensional Inverse Problems in Heat Conduction	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Rodrigo Intini Marques	168	Advances on the Development of an Impulsive Thrust-stand for Electric Propulsion Application	Aerospace Engineering	Propulsion	oral
Rodrigo Kubelke	530	CFD ANALYSIS OF A VAPOR COMPRESSION SYSTEM USING SINGLE- AND TWO-PHASE EJECTOR AS AN EXPANDER DEVICE	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Rodrigo Martins Farias	57	A NOVEL OPTIMIZATION METHODOLOGY APPLIED TO PARAMETERS OF HEAT SOURCES IN WELDING NUMERICAL SIMULATIONS	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Rodrigo Palharini	478	NUMERICAL INVESTIGATION OF WEAKLY IONISED GAS EFFECTS ON THE SARA CAPSULE	Aerospace Engineering	Aerodynamics	oral
Rodrigo Palharini	684	RANS HYPERSONIC FLOW SIMULATIONS OVER REENTRY CAPSULES	Aerospace Engineering	Aerodynamics	oral
Rodrigo Peixoto	667	Computational System for Physically Non-linear Thermal Analysis	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Rodrigo Peixoto	763	Steady State Heat Conduction Modeling by the Generalized Finite Element Method	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Rodrigo Pereira	422	NUMERICAL SIMULATION OF THE TWO-DIMENSIONAL INCOMPRESSIBLE FLOW AROUND ELLIPTIC CYLINDERS USING THE VORTEX METHOD	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Rodrigo Willian Teles Paixão	210	Construction of a Didactical Workbench for a Performance Analysis of a Heat Exchanger Contracorrent Hub	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Rogelio Caballero	757	INFLUENCE OF MAGNETO-ELECTRO-ELASTIC IMPERFECT CONTACT CONDITIONS IN THE THERMAL EFFECTIVE COEFFICIENTS OF LAMINATED COMPOSITES	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Rogério Feliciano de Moura Santos	831	TESTS OF ARRANGEMENT IN A PROTOTYPE OF A STEAM GENERATOR IN AN ABSORPTION REFRIGERATION SYSTEM	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
ROGERIO GAMA	431	FINITE ELEMENTS SIMULATION OF HEAT TRANSFER IN THIN PLATES WITH TEMPERATURE DEPENDENT CONDUCTIVITY	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Rogério Gonçalves dos Santos	642	DROPLET VAPORIZATION OF ETHANOL, N-HEPTANE, AND ISO-OCTANE ON HEATED SURFACES OF DIFFERENT METALS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Rogério Gonçalves dos Santos	646	SIMULATION OF A PLANAR HEATED JET USING A WEIGHTED ESSENTIALLY NON-OSCILLATORY SCHEME	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Rogério Gonçalves dos Santos	692	Head Loss Optimization	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Rogério José Silva	236	EXERGY ANALYSIS OF A SUPERCRITICAL COAL-FIRED POWER PLANT AT VARIOUS LOAD CONDITIONS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Rogério José Silva	403	ANALYSIS OF THE IMPACT OF INCREASED EFFICIENCY OF COAL-FIRED POWER PLANTS IN CARBON DIOXIDE (CO ₂) EMISSIONS	Combustion and Environmental Engineering	Environmental Engineering	poster
Rogério Ramos	41	Uncertainty Evaluation and Experimental Analysis for a Wind Tunnel as Reference to Gas Flare Flow Measurement	Fluid Mechanics and Rheology	Instrumentation and Experiments	oral
Rogério Ramos	395	LOW-COST EIT SYSTEM DESIGN BASED ON THE SOFTWARE EIDORS	Fluid Mechanics and Rheology	Multi-phase Flow	poster
Romulo Pierre Batista dos Reis	354	THERMAL DIFFUSIVITY IDENTIFICATION OF NICKEL-TITANIUM SMA USING A PERIODIC TEMPERATURE FIELD	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Romulo Pierre Batista dos Reis	444	DEVELOPMENT OF AN EXPERIMENTAL DEVICE FOR THERMAL DIFFUSIVITY IDENTIFICATION OF METALLIC ALLOYS USING A PERIODIC TEMPERATURE FIELD	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Ronaldo Lucas Alkmin Freire	319	Lifetime Exergy Analysis of Electricity and Hot Water Production Systems in Offshore Projects with Multiple Platforms	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Ronaldo Moura	210	Construction of a Didactical Workbench for a Performance Analysis of a Heat Exchanger Contracorrent Hub	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Ronaldo Moura	212	STATISTICAL ANALYSIS OF THE ACCURACY OF EMPIRICAL LOSS OF LOAD EQUATION	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Roney Thompson	290	RHEOLOGICAL STUDY OF GAS HYDRATE FORMATION; EFFECTS CAUSED BY THE ADDITION OF GAS CONDENSATE TO THE WATER-IN-OIL EMULSIONS.	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Roney Thompson	487	ANALYSIS OF THE TERM OF INTERACTION BETWEEN THE FLUID AND THE POROUS MEDIUM IN MIXTURE THEORY USING A NON VISCOMETRIC IDEALIZATION OF THE POROUS MEDIUM	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral

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Roney Thompson	638	MASS-CONSISTENT MODEL FOR WIND RESOURCE ASSESSMENT FOR BRAZILIAN CASE – VALIDATION WITH DNS DATA	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Roque Martins Duarte Junior	570	EXPERIMENTAL STUDY OF START-UP FLOWS OF GELLED WAXY OILS IN PIPELINES – A REVIEW	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Roque Luiz da Silva Pitangueira	667	Computational System for Physically Non-linear Thermal Analysis	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Roque Luiz da Silva Pitangueira	763	Steady State Heat Conduction Modeling by the Generalized Finite Element Method	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Ruan Passos	684	RANS HYPERSONIC FLOW SIMULATIONS OVER REENTRY CAPSULES	Aerospace Engineering	Aerodynamics	oral
Rubenildo Andrade	147	ENERGETIC ANALYSIS OF TROPICAL BIOMASS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Rubens Perdigão Diz Oliveira	138	ANALYSIS OF PRESSURE DISTRIBUTION GENERATED BY WIND LOAD IN AN ORE RECOVERY	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Ruddy Antequera	334	STATIC TORQUE MEASUREMENT ON A MULTI DISK TURBINE	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Rubieli Zeferino	255	SIMULATION OF THREE-DIMENSIONAL FLOW OF AIR IN DUCT OF INDUSTRIAL TERM-SHRINKING TUNNEL	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Sabrina dos Santos Ferreira	644	EXPERIMENTAL MEASUREMENT OF THE EFFECT OF HIGH FILLING RATIO ON THE PERFORMANCE OF THE PULSATING HEAT PIPE	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Sabrina Nogueira Rabelo	30	ENERGY EFFICIENCY OF A SOLAR HEAT PUMP OPERATING IN NULL SOLAR RADIATION CONDITION	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Sabrina Nogueira Rabelo	42	DESIGN OF A COOLING MACHINE OPERATING WITH CO2 IN SUBCRITICAL CYCLE	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	poster
Sabrina Nogueira Rabelo	43	ANALYSIS OF THE REFRIGERANT MASS CHARGE FOR A DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP SYSTEM	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Sabrina Nogueira Rabelo	49	PERFORMANCE COMPARISON OF DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP WORKING WITH R1234YF AS A DROP-IN REPLACEMENT FOR R134A	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Sabrina Nogueira Rabelo	68	ECONOMIC AND ENERGETIC ANALYSIS OF SOLAR COLLECTOR SIZE OF A DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Sabrina Nogueira Rabelo	113	CHARACTERIZATION AND ANALYSIS OF THE EFFICIENCY OF A HERMETIC COMPRESSOR	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Sabrina Nogueira Rabelo	235	OPTIMAL HIGH PRESSURE CORRELATION FOR R744 DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP FOR DOMESTIC HOT WATER	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Saionara Coelho Peixoto	785	Numerical Simulations of a Rocket Engine Internal Flow	Aerospace Engineering	Propulsion	poster
Samir Boset Rojas Chávez	791	FLAMES DYNAMICS OF BLUFF-BODY-STABILIZED IN LEAN PREMIXED STOICHIOMETRIC SYNGAS/AIR	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster
Sampaio Martins	830	ACQUISITION OF THERMOCOUPLE DATA BY ARDUINO® MICROCONTROLLERS	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Samuel Sander Carvalho	239	SIMULATION OF A SHELL AND TUBE HEAT TRANSFER PROCESS WITH ANSYS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Sandi Souza	107	NUMERICAL ANALYSIS OF A GENERIC SCRAMJET AIR INLET	Aerospace Engineering	Propulsion	poster
Sandro Metrevelle Marcondes de Lima e Silva	20	PREDICTION OF LASER WELD BEAD PROFILE THROUGH AN INVERSE PROBLEM APPROACH	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Sandro Metrevelle Marcondes de Lima e Silva	81	NUMERICAL ANALYSIS OF LAMINAR MIXED CONVECTION FROM A ROTATING CYLINDER IN CROSS FLOW	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Sandro Metrevelle Marcondes de Lima e Silva	445	NUMERICAL ANALYSIS OF THE INFLUENCE OF COATINGS IN A CUTTING TOOL USING COMSOL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Sandro Metrevelle Marcondes de Lima e Silva	480	NUMERICAL SIMULATION OF THE DROPLET BREAKUP WITH PERMANENT OBSTRUCTION IN MICROFLUIDIC T-JUNCTION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Sandro Metrevelle Marcondes de Lima e Silva	525	THERMAL PROPERTIES ESTIMATION OF METALS USING DIFFERENT THERMAL MODELS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Sandro Metrevelle Marcondes de Lima e Silva	586	A Time Traveling Regularization Method For Three Dimensional Inverse Problems in Heat Conduction	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Sandro Metrevelle Marcondes de Lima e Silva	648	HEAT TRANSFER STUDY OF DRY-TYPE TRANSFORMER	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Sandro Metrevelle Marcondes de Lima e Silva	653	STUDY OF NATURAL CONVECTION IN HEAT SINKS USING COMSOL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Sandro Metrevelle Marcondes de Lima e Silva	729	ANALYSIS OF GEOMETRICAL PARAMETERS IN HEAT SINKS UNDER FREE CONVECTION USING DOE	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Santiago Giménez de Castro	218	Sensitivity analysis of PANS turbulence models in a canonical combustor flow	Aerospace Engineering	Propulsion	oral
Santiago del Rio Oliveira	76	A NUMERICAL STUDY OF THE NATURAL CONVECTIVE HEAT TRANSFER FROM THE SURFACE OF A THIN HORIZONTAL PLATE HAVING A WAVY SURFACE WITH VARIABLE HEIGHT	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Santiago del Rio Oliveira	77	A NUMERICAL STUDY OF THE SIMULTANEOUS NATURAL CONVECTIVE HEAT TRANSFER FROM THE TOP AND BOTTOM SURFACES OF A THIN HORIZONTAL CIRCULAR DISK IMBEDDED IN AN ADIABATIC CONCENTRIC DISK	Energy and Thermal Sciences	Numerical Heat Transfer	oral

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Santiago del Rio Oliveira	353	ESTIMATE OF CONSUMPTION OF SUGARCANE BAGASSE AS A COMPLEMENT IN THE FUEL BLEND IN A BIOMASS BOILER	Combustion and Environmental Engineering	Environmental Engineering	oral
Santiago Riquelme	231	Improvements in Software DOMUS about Atmospheric Radiative Exchange and Long-wave Boundary Conditions	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Sara Leão	346	MEASUREMENT OF AIR MASS FLOW IN COMPRESSION IGNITION ENGINES	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Sara Leão	764	Application of Optimization Techniques to Prediction of Parameters Wiebe Function in a Diesel Generator Set	Combustion and Environmental Engineering	Engine Combustion	poster
Sarah Nunes Argentin	668	EXPERIMENTAL STUDY OF BOILING PHENOMENON IN THE EVAPORATOR OF A GLASS THERMOSYPHON	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Sardar Muhammad Hussain	430	A matrix solver approach for simulation of circular inhomogeneities by the Analytic Element Method	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Savio Vianna	646	SIMULATION OF A PLANAR HEATED JET USING A WEIGHTED ESSENTIALLY NON-OSCILLATORY SCHEME	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
scouflaire philippe	143	EXPERIMENTAL STUDY OF THE INFLUENCE OF THE SWIRL NUMBER ON LEAN PREMIXED COMBUSTION REGIMES	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Sean McGinty	509	ANISOTROPIC TRANSPORT THROUGH POLYMER LAYER AND POROUS ARTERIAL WALL WITH BINDING IN DRUG-ELUTING STENTS USING THE FEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Sean McGinty	509	ANISOTROPIC TRANSPORT THROUGH POLYMER LAYER AND POROUS ARTERIAL WALL WITH BINDING IN DRUG-ELUTING STENTS USING THE FEM	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Sérgio Aruana Elarrat Canto	614	EXPERIMENTAL ANALYSIS IN A DIESEL GENERATOR SET CONSUMING FUEL B7, WITH HHO GAS INJECTION IN THE AIR OF ADMISSION	Combustion and Environmental Engineering	Engine Combustion	poster
Sergio A. David	447	Fractional calculus applied to linear thermoacoustics: A generalization of Rott's model	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Sergio Braga	484	CRITERION FOR PRIORIZATION OF THE BRAZILIAN ECONOMY SECTORS VIS-À-VIS THE CONSUMPTION OF ENERGY AND GENERATING SOURCES	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Sergio Hanriot	615	A Review on solar organic rankine cycles technologies	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Sergio Hanriot	710	MODELING OF AN ORGANIC RANKINE CYCLE FOR LOW TEMPERATURE HEAT SOURCES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Sergio Hanriot	716	Evaluation of the Influence of Ambient Temperature on the Performance Coefficient of a Refrigeration Cycle by Single Pressure Absorption	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Seyed Reza Amini Niaki	17	EFFECT OF THE MACRO-SCALE TOPOLOGY OVER THE EFFECTIVE DRAG COEFFICIENT IN DENSE GAS-SOLID FLUIDIZED FLOWS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Seyed Reza Amini Niaki	35	EFFECT OF THE FLOW MACRO-SCALE ON THE EFFECTIVE STRESSES IN DENSE GAS-SOLID FLUIDIZED FLOWS	Fluid Mechanics and Rheology	Multi-phase Flow	oral
sidney ribeiro	97	INVERSE PROBLEM OF A ONE-DIMENSIONAL MODEL IN MULTILAYER HEAT CONDUCTION	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
sidney ribeiro	141	ANALYTICAL SOLUTION OF NONLINEAR TRANSIENT HEAT CONDUCTION PROBLEM USING GREEN'S FUNCTIONS	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Silvia Azucena Nebra de Perez	237	COMPARISON BETWEEN TWO ALTERNATIVES FOR THE ENERGY USE OF VINASSE: CONCENTRATION-INCINERATION VS BIODIGESTION	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Silvio de Oliveira Junior	144	Thermoeconomic Methodology for District Cooling Systems Analysis	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	oral
Silvio de Oliveira Junior	319	Lifetime Exergy Analysis of Electricity and Hot Water Production Systems in Offshore Projects with Multiple Platforms	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Silvio de Oliveira Junior	520	A First Approach for an Exergy Analysis of the Human Heart With a Pathology	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Silvio L. M. Junqueira	318	DDPM-DEM Simulation of the Mud Cake Build up in Cross Flow Filtration over Heterogeneous Porous Medium	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Silvio L. M. Junqueira	318	DDPM-DEM Simulation of the Mud Cake Build up in Cross Flow Filtration over Heterogeneous Porous Medium	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Silvio L. M. Junqueira	576	PORE-SCALE SIMULATION OF DISPLACING IMMISCIBLE FLUIDS IN A SECOND ORDER OF SIERPINSKI CARPET POROUS MEDIA USING A LATTICE-BOLTZMANN METHOD.	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Simone de Fátima Tomazzoni Goncalves	473	STUDY OF PARAMETERS OF A MULTIGRID METHOD FOR A NEW APPROACH USING SIMPLEC PRESSURE-VELOCITY COUPLING	Fluid Mechanics and Rheology	Computational Fluid Dynamics	oral
Solidônio Carvalho	15	PELLETIZED BIOMASS FROM MUNICIPAL SOLID WASTES FOR USE AS SOLID FUEL	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral

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Solidônio Carvalho	413	ARCHIMEDES TURBINE NUMERICAL SIMULATION USING THE OPENFOAM SOFTWARE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Solidônio Carvalho	539	MATHEMATICAL / NUMERICAL MODELING OF A FREE PISTON LINEAR ELECTRIC GENERATOR	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
STELLA MARYS SILVA PINHEIRO	30	ENERGY EFFICIENCY OF A SOLAR HEAT PUMP OPERATING IN NULL SOLAR RADIATION CONDITION	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
STELLA MARYS SILVA PINHEIRO	42	DESIGN OF A COOLING MACHINE OPERATING WITH CO2 IN SUBCRITICAL CYCLE	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	poster
Stephan Hennings Och	182	COMPARATIVE ANALYSIS OF HEAT TRANSFER COEFICIENT APPLIED TO SPARK IGNITION COMBUSTION ENGINES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Su Jian	117	COMPUTACIONAL SIMULATION OF NATURAL CONVECTION IN A SEMI-CIRCULAR CAVITY WITH A HEAT GENERATING FLUID	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Su Jian	132	Heat Transfer in Helium Coolant Channel of Dual-Functional Lithium Lead Test Blanket Module to ITER Fusion Reactor	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Su Jian	160	SLIGHTLY ENHANCED SINGLE PHASE NATURAL CIRCULATION AT SMALL INCLINATION ANGLES	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Su Jian	162	TWO-DIMENSIONAL COMPUTACIONAL SIMULATION NATURAL CONVECTION IN A CYLINDRICAL ENCLOSURE WITH AN INNER SQUARE HEAT-GENERATING BODY	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Su Jian	165	CFD SIMULATION OF SUBCOOLED FLOW BOILING IN A COOLANT SUBCHANNEL OF A PWR	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Su Jian	259	CFD Modeling of Printed Circuit Heat Exchanger for Supercritical CO2-CO2 and Air-Water	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Su Jian	305	Computational Study of Turbulence Models on Natural Circulation Circuits with Heat Generation	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Su Jian	312	CFD SIMULATION OF A NATURAL CONVECTION FLOW IN A ENCLOSURE CAVITY WITHIN A HEATED BODY	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Su Jian	355	Computational Simulation of Turbulent Flow and Heat Transfer of Supercritical CO2 in a Micro Modular Reactor (MMR) Subchannel	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Su Jian	381	COMPUTACIONAL SIMULATION OF TAYLOR BUBBLES MOTION IN A STAGNANT LIQUID INSIDE A VERTICAL COLUMN	Nuclear Engineering	Nuclear Engineering	oral
Su Jian	723	Heat Transfer Analysis of a Supercritical Carbon Dioxide Natural Circulation Loop	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	oral
Suellen Alcântara	831	TESTS OF ARRANGEMENT IN A PROTOTYPE OF A STEAM GENERATOR IN AN ABSORPTION REFRIGERATION SYSTEM	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Suzane Nascimento	99	SOOT DISTRIBUTION IN TURBULENT BLUFF BODY NEAR WAKE NON PREMIXED FLAMES	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Taiane Pereira Pantoja	582	SCALE-ADAPTATIVE SIMULATION TURBULENCE MODELING FOR A CYLINDER IN CROSS FLOW	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Taiane Pereira Pantoja	797	EFFECTS OF O3 ADDITION ON AMMONIUM PERCHLORATE-BASED SOLID PROPELLANT COMBUSTION	Combustion and Environmental Engineering	Combustion, Pirolisis and Gasification of Solids and Liquids	poster
Tainã Carvalho Garcia Miranda Filgueiras	126	CALIBRATION OF THERMOCOUPLE TYPE TEMPERATURE SENSORS BY COMPARISON WITH STANDARD INSTRUMENT USING LINEAR REGRESSION MATH METHOD	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Tainan Gabardo	86	A REVIEW ON CONSTITUTIVE EQUATIONS FOR GELLED WAXY CRUDE OIL MODELING	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	poster
Tainan Gabardo	547	UNCERTAINTY ANALYSIS OF TRANSIENT PROBLEMS USING MONTE CARLO METHOD	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Tainan Gabardo	570	EXPERIMENTAL STUDY OF START-UP FLOWS OF GELLED WAXY OILS IN PIPELINES – A REVIEW	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Tainan Gabardo	596	Experimental analysis of the start-up flow of viscous and viscoplastic fluids in pipelines	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Taynara Geysa Silva do Lago	96	NUMERICAL STUDY OF COUPLED NATURAL CONVECTION, CONDUCTION AND RADIATION HEAT TRANSFER FOR A TROMBE WALL CONFIGURATION	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Tainan Gabardo	697	A New Constitutive Equation to Represent Drilling Fluids	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
Talita Mitsue Onose Araujo Cunha	670	DIMENSIONING OF A COMBUSTION CHAMBER FOR MICROTURBINE BASED ON AUTOMOTIVE TURBOCHARGER	Combustion and Environmental Engineering	Engine Combustion	poster
Tamara Passos Pimenta	725	ANALYSIS OF THE COMBUSTION PROCESS IN AN ENGINE ADAPTED WITH PRE-CHAMBER USING A ZERO DIMENSIONAL NUMERICAL MODEL AND A THREE-DIMENSIONAL MODEL	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	oral
Tamires Costa	743	Manufacturing and analysis of an alpha type Stirling engine prototype	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Tatiane Silva	732	SOLAR PHOTOVOLTAIC ON GRID INSTALLATION: PROJECT, LEGAL ASPECTS, ACTUAL DATA AND ECONOMIC VIABILITY	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster

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Tatiane Silva	365	Feasibility Study of the Implementation to a Solar Photovoltaic Power Plant with Solar Trackers in Itajubá, Minas Gerais	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Tatiane Sousa	157	NUMERICAL ANALYSIS AND EFFICIENCY OF A VAPOR CHAMBER	Energy and Thermal Sciences	Numerical Heat Transfer	poster
Taygoara Oliveira	515	SMOKE VISUALIZATION IN HYDROKINETIC TURBINES	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	poster
Tayná Moraes	345	Eucalyptus wood drying at different temperatures and aspect ratios	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Teo Balconi	505	A MODELICA MODEL TO SIMULATE DOMESTIC REFRIGERATION COMPRESSORS UNDER TRANSIENT CONDITIONS	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Thales Sirino	517	WATER-ALCOHOL-HYDROCARBONS VLE AND VLLE: PREDICTION OF ALCOHOL PARTITION COEFFICIENT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Thamires Bernardes	700	WEB SYSTEM FOR WEATHER DATA PROCESSING TO HVAC DESIGN	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	oral
Thamy Hayashi	678	EXPERIMENTAL AND NUMERICAL INVESTIGATION OF COAL DEVOLATILIZATION IN A DTF	Combustion and Environmental Engineering	Chemical Kinetics and Modeling	poster
Theles Costa	440	Optimization of the control parameters of a vehicle's electric fan activated by PWM	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Thiago Albergaria	418	COANDA EFFECT ANALYSIS IN THE BANDEIRANTE AIRCRAFT AERODYNAMIC PROFILE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Thiago Andrade Fernandes	824	ANALYSIS OF HEAT AND MASS SIMULTANEOUS TRANSFER IN AQUEOUS SOLUTION DESCENDENT FLOW IN THE VAPOUR ABSORPTION PROCESS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Thiago Andrade Fernandes	824	ANALYSIS OF HEAT AND MASS SIMULTANEOUS TRANSFER IN AQUEOUS SOLUTION DESCENDENT FLOW IN THE VAPOUR ABSORPTION PROCESS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Thiago Antonini Alves	253	Experimental Investigation of the Extinction Depth for a Candle Diffusion Flame under Confinement	Combustion and Environmental Engineering	Combustion, Pyrolysis and Gasification of Solids and Liquids	poster
Thiago Antonini Alves	668	EXPERIMENTAL STUDY OF BOILING PHENOMENON IN THE EVAPORATOR OF A GLASS THERMOSYPHON	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Thiago Augusto Michels	621	EXPERIMENTAL INVESTIGATION OF THE FUEL DROPLETS EVAPORATION FOR BLENDED FUELS	Combustion and Environmental Engineering	Combustion, Pyrolysis and Gasification of Solids and Liquids	poster
Thiago Augusto Michels	728	A COMPARISON BETWEEN TWO DIFFERENT CONFIGURATION RADIANT POROUS BURNER FOR PREMIXED COMBUSTION	Combustion and Environmental Engineering	Combustion, Pyrolysis and Gasification of Solids and Liquids	poster
Thiago Brum	708	NUMERICAL SIMULATION TO ANALYZE THE RADIATOR OF A POWER TRANSFORMER	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Thiago Canale	429	Aerodynamic assessment of Göttingen airfoil for application in small horizontal axis windmills	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Thiago Gomes	565	NUMERIC SIMULATION OF TURBULENT FLOW DEVELOPMENT IN AN ECCENTRIC CHANNEL WITH CONVECTIVE HEAT TRANSFER	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Thiago Gotelip Correa Veloso	580	MULTI-OBJECTIVE OPTIMIZATION OF ORC CYCLES OPERATION FOR WASTE HEAT RECOVERY IN STEEL-MAKING INDUSTRY.	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Thiago Leite dos Santos	31	ENABLE THE POSSIBILITY OF DEPOSITION ON PTFE SUBSTRATE COATING POWDER MIXTURE COMPOSED OF TITANIUM (Ti CP) AND PTFE THROUGH FLAME THERMAL SPRAY PROCESS	Bioengineering	Bioengineering	poster
Thiago Sirino	654	EXPERIMENTAL OBSERVATIONS OF THE BEHAVIOR OF SINGLE BUBBLES RISING IN CONFINED GEOMETRIES	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Thyane Fuhrmann Gonçalves de Oliveira	266	THERMAL ANALYSIS OF A VARIABLE CAPACITY COMPRESSOR FREQUENCY INVERTER	Energy and Thermal Sciences	Numerical Heat Transfer	oral
Tiago Gonçalves	418	COANDA EFFECT ANALYSIS IN THE BANDEIRANTE AIRCRAFT AERODYNAMIC PROFILE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Tiago Henrique Santa Maria	239	SIMULATION OF A SHELL AND TUBE HEAT TRANSFER PROCESS WITH ANSYS	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Tiago Augusto Moreira	655	NEW EMPIRICAL CORRELATIONS FOR PREDICTING THE THERMAL CONDUCTIVITY AND VISCOSITY OF NANOFLUIDS Al ₂ O ₃ /WATER	Fluid Mechanics and Rheology	Theoretical and Analytical Modeling	oral
Tiago de Freitas Paulino	43	ANALYSIS OF THE REFRIGERANT MASS CHARGE FOR A DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP SYSTEM	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Tiago de Freitas Paulino	49	PERFORMANCE COMPARISON OF DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP WORKING WITH R1234YF AS A DROP-IN REPLACEMENT FOR R134A	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Tiago de Freitas Paulino	68	ECONOMIC AND ENERGETIC ANALYSIS OF SOLAR COLLECTOR SIZE OF A DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Tiago de Freitas Paulino	235	OPTIMAL HIGH PRESSURE CORRELATION FOR R744 DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP FOR DOMESTIC HOT WATER	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Tiago Haubert Andriotty	832	ENERGY PENALTY MODEL FOR FLUE GAS DESULFURIZATION SYSTEMS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Tiago Mendes	100	Fault Detection and Diagnosis in a Refrigeration System Using Thermoeconomic Methodology and Artificial Intelligence	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster

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Tiago Mendes	100	Fault Detection and Diagnosis in a Refrigeration System Using Thermo-economic Methodology and Artificial Intelligence	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Tiago Rolim	192	DESIGN AND ANALYSIS OF A SCRAMJET INLET AND COMBUSTION CHAMBER FOR HEAT ADDITION RATE INVESTIGATION	Aerospace Engineering	Propulsion	poster
Tiago Rolim	462	HEAT FLUX AND THERMODYNAMIC PROPERTIES ANALYSIS AT THE STAGNATION POINT AND THE BLUNT REGION OF THE 14-X S SCRAMJET ENGINE	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
Tomás Londe Camargos	782	CASE STUDIES OF PHOTOVOLTAIC CELL APPLIANCES AND ALTERNATIVE ENERGY PRODUCTION METHODS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
TULIO DA MOTTA CORREA	53	COLD STORAGE CHAMBER DESIGN FOR FISHING BOATS IN THE REGION OF SALGADO, AMAZON	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
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TULIO DA MOTTA CORREA	508	EXPERIMENTAL STUDY ON THE SINGLE-PHASE CONVECTIVE HEAT TRANSFER COEFFICIENT IN THE TUBE QUENCHING PROCESS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	oral
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valdir estevam	452	A NUMERICAL STUDY OF THE CAPSULE-INTAKE FLOW OF A SIMPLIFIED AND SCALED ELECTRIC SUBMERSIBLE PUMP ON THE SKID (ESP-S)	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	oral
Valéria França	312	CFD SIMULATION OF A NATURAL CONVECTION FLOW IN A ENCLOSURE CAVITY WITHIN A HEATED BODY	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Valério Luiz Borges	15	PELLETIZED BIOMASS FROM MUNICIPAL SOLID WASTES FOR USE AS SOLID FUEL	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Valmir de Oliveira Junior	679	Using Organic Rankine Cycle for electricity generation from waste heat	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Vanderley Vasconcelos	228	USE OF RELIABILITY BLOCK DIAGRAM AND FAULT TREE TECHNIQUES IN RELIABILITY ANALYSIS OF EMERGENCY DIESEL GENERATORS OF NUCLEAR POWER PLANTS	Nuclear Engineering	Nuclear Engineering	oral
Vanderley Vasconcelos	228	USE OF RELIABILITY BLOCK DIAGRAM AND FAULT TREE TECHNIQUES IN RELIABILITY ANALYSIS OF EMERGENCY DIESEL GENERATORS OF NUCLEAR POWER PLANTS	Nuclear Engineering	Nuclear Engineering	oral
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Vanessa Guedes	638	MASS-CONSISTENT MODEL FOR WIND RESOURCE ASSESSMENT FOR BRAZILIAN CASE – VALIDATION WITH DNS DATA	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Vicente de Vasconcelos Claudino Filho	611	ANALYSIS OF THE INFLUENCE OF A GAS RESERVOIR (LUNG) INTRODUCED INTO A BIOMASS GASIFIER	Aerospace Engineering	Propulsion	poster
Vicente de Vasconcelos Claudino Filho	613	ADAPTATION OF A DIESEL MWM ENGINE, STACIONARY, MODEL 229/4, TO WORK WITH BIOFUEL: DIESEL-NATURAL GAS	Aerospace Engineering	Propulsion	poster
Vicente Luiz Scalon	7	NUMERICAL AND EXPERIMENTAL ANALYSIS OF RADIAL FANS APPLIED IN AGRICULTURAL SPREADERS USING CFD	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Vicente Luiz Scalon	317	NUMERICAL SIMULATION OF NATURAL CONVECTION OVER A HORIZONTAL PLATE	Energy and Thermal Sciences	Heat and Mass Transfer Fundamentals	poster
Vicente Luiz Scalon	591	Numerical Analysis of a Split Air-Conditioning System Using Transient Boundary Conditions	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Vicente Luiz Scalon	603	LOW COST THERMAL PYRANOMETER USING DALLAS DS18B20 SENSOR AND ARDUINO	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
Vicente Luiz Scalon	606	THERMAL RADIOMETER USING LM35 ANALOG SENSORS, CONNECTED TO AN ARDUINO BOARD	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
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Vilson Silva	653	STUDY OF NATURAL CONVECTION IN HEAT SINKS USING COMSOL	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
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Vinicius Cruz	435	ANALYSIS OF THE THERMAL EFFICIENCY OF A SOLAR THERMAL COLLECTOR FOR LOW-INCOME FAMILIES	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Vinicius Cruz	649	THERMAL ANALYSIS OF A TUBELESS FLAT-PLATE SOLAR COLLECTOR	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster

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Vinicius Canossa	348	Influence of Hull Condition on Ship Emission: Study Case of a Panamax Vessel	Combustion and Environmental Engineering	Environmental Engineering	poster
Vinicius Daroz	680	NUMERICAL EVALUATION OF MENTER'S SST-CC MODEL FOR AN ANNULAR-SECTOR DUCT ROTATING IN PARALLEL MODE	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Vinicius Daroz	787	COMPUTATIONAL FLUID DYNAMICS AND HEAT TRANSFER IN ROTATING PDC DRILL BIT UNDER DIRECT AND REVERSE CIRCULATION	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Vinicius dos Santos Gonçalves	762	ANALYSIS OF THE THERMAL PROFILE OF THE ELECTRIC ARC FURNACE OF SINOBAS S.A	Energy and Thermal Sciences	Numerical Heat Transfer	poster
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Vinicius Gustavo Poletto	318	DDPM-DEM Simulation of the Mud Cake Build up in Cross Flow Filtration over Heterogeneous Porous Medium	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Vinicius Mafra Melo	611	ANALYSIS OF THE INFLUENCE OF A GAS RESERVOIR (LUNG) INTRODUCED INTO A BIOMASS GASIFIER	Aerospace Engineering	Propulsion	poster
Vinicius Nogueira	692	Head Loss Optimization	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
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Vitor Ventura	487	ANALYSIS OF THE TERM OF INTERACTION BETWEEN THE FLUID AND THE POROUS MEDIUM IN MIXTURE THEORY USING A NON VISCOMETRIC IDEALIZATION OF THE POROUS MEDIUM	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
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Vitor Augusto Andreghetto Bortolin	298	EXPERIMENTAL STUDY OF OXY-FUEL COMBUSTION IN A COFLOW BURNER	Combustion and Environmental Engineering	Combustion, Pyrolysis and Gasification of Solids and Liquids	oral
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Vitor José Jerônimo de Moraes	196	MODELING OF GAS RELEASE AND ABSORPTION IN LIQUID WITHIN A CONSISTENT THERMODYNAMIC FRAMEWORK WITH EXPERIMENTAL VALIDATION	Fluid Mechanics and Rheology	Multi-phase Flow	oral
Vitor José Jerônimo de Moraes	602	STABILITY OF A RAYLEIGH-BENARD POISEUILLE FLOW CONSIDERING A CARREAU FLUID	Fluid Mechanics and Rheology	Rheology and Non-Newtonian Fluid Mechanics	oral
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Vitor Liston	563	CHARACTERISTICS OF THE USE OF CO2 IN CASCADE REFRIGERATION SYSTEMS AND FOR POWER GENERATION IN BRAYTON CYCLES	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	oral
Vitor Lomeu Cerqueira	320	NUMERICAL STUDY OF A FLOW AROUND TWO CIRCULAR CYLINDERS IN A WIND TUNNEL	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
Vitor Lomeu Cerqueira	320	NUMERICAL STUDY OF A FLOW AROUND TWO CIRCULAR CYLINDERS IN A WIND TUNNEL	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
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vladimir cobas	199	SOLAR RAY-TRACING SIMULATION AND THERMAL ANALYSIS OF A DISH STIRLING RECEIVER	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
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Walber Alair Carvalho Freire	809	LOSS OF PIPELINE PRESSURE WITH SINGLE-PHASE AND BIPHASIC	Fluid Mechanics and Rheology	Instrumentation and Experiments	poster
Walber Alair Carvalho Freire	830	ACQUISITION OF THERMOCOUPLE DATA BY ARDUINO® MICROCONTROLLERS	Energy and Thermal Sciences	Thermo-Economic Analysis and Energy Policy	poster
Waldir Bizzo	25	A CASSAVA BIOREFINERY - A MASS AND ENERGY BALANCE	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
Waldir Bizzo	451	EXPERIMENTAL DETERMINATION OF PYROLYSIS GAS FLOWRATE IN A CHARCOALING KILN	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
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Washington Martins da Silva Jr.	15	PELLETIZED BIOMASS FROM MUNICIPAL SOLID WASTES FOR USE AS SOLID FUEL	Energy and Thermal Sciences	Biofuels and Alternative Energy	oral
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Wendel Chaves	792	Simulation of a Diesel Engine Using AVL FIRE Software	Combustion and Environmental Engineering	Engine Combustion	poster
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Wesley Albiani Alves	320	NUMERICAL STUDY OF A FLOW AROUND TWO CIRCULAR CYLINDERS IN A WIND TUNNEL	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
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William Wolf	811	A NUMERICAL INVESTIGATION OF ANGLE OF ATTACK EFFECTS ON AIRFOIL NOISE SECONDARY TONES	Fluid Mechanics and Rheology	Computational Fluid Dynamics	poster
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Willian Moreira Duarte	49	PERFORMANCE COMPARISON OF DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP WORKING WITH R1234YF AS A DROP-IN REPLACEMENT FOR R134A	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Willian Moreira Duarte	68	ECONOMIC AND ENERGETIC ANALYSIS OF SOLAR COLLECTOR SIZE OF A DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	oral
Willian Moreira Duarte	235	OPTIMAL HIGH PRESSURE CORRELATION FOR R744 DIRECT EXPANSION SOLAR ASSISTED HEAT PUMP FOR DOMESTIC HOT WATER	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	poster
Willian Moreira Duarte	775	LABYRINTH SEALS - A LITERATURE REVIEW	Fluid Mechanics and Rheology	Industrial Applications and Turbomachinery	poster
Willian Moreira Duarte	782	CASE STUDIES OF PHOTOVOLTAIC CELL APPLIANCES AND ALTERNATIVE ENERGY PRODUCTION METHODS	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
Wilson de Aguiar Beninca	512	ANALYSIS OF A ALPHA-TYPE STIRLING ENGINE THROUGH ISOTHERMAL AND ADIABATIC MODELS	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
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Yago Souza	617	ENCIT2018-0567 - THERMODYNAMIC ANALYSIS AND PARAMETRIC OPTIMIZATION OF THE SECONDARY SYSTEM OF ANGRA 1 NUCLEAR POWER PLANT	Energy and Thermal Sciences	Thermodynamics and Thermal Systems	poster
Yago Souza	703	TEMPERATURE PROFILE AND EFFICIENCY OF STRAIGHT FINS WITH TEMPERATURE DEPENDENT INTERNAL HEAT GENERATION AND RADIATION EFFECTS	Energy and Thermal Sciences	Applied Heat and Mass Transfer	poster
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Yan Lopes	760	ANALYSIS OF MOISTURE ADSORPTION ISOTHERMS FOR ROASTED AND RAW BIOMASSES	Energy and Thermal Sciences	Biofuels and Alternative Energy	poster
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