ENCIT 2022 Final Program:
Oral and Poster Technical Sessions

This is a short guide to help you find the day and time of your oral and/or poster presentation in ENCIT 2022.

Content of this document:

Page 2: The top table presents the layout of the ten symposia, which are abbreviated as shown on the lower table.

Page 3: The two tables present the day, time and room where the oral technical sessions will take place on Monday (Nov 07) and Tuesday (08).

Page 4: The two tables present the day, time and room where the oral technical sessions will take place on Wednesday (Nov 09) and Thursday (Nov 10).

Page 5: The table presents the days and hours of the poster technical sessions on Monday (Nov 07) through Wednesday (Nov 09).

Page 6: The list starting on this page shows the authors in alphabetical order, with the respective codes and titles of their papers.

Finding your paper:

The numerical codes that are shown in the tables and author list correspond to the numerical part of the paper code in ABCM submission system. For instance, for paper ENCIT-0037, the numerical code will be "37". You can find the day and time of your presentation first checking the numerical code of your paper, then using the searching tool of the pdf document to locate it in one of the tables.

Questions and comments:

In case you have question or comments about the day/time of your presentation, you can send an email to the following address:

fernando.pereira@ufrgs.br

Notice:

1. As ENCIT 2022 starts, the technical program will be available online for easy navigation through the several sessions of the conference using your cell phone or computer

ORAL TECHNICAL SESSIONS

Day	Time	Malbec Hall	Pinot Noir Room A	Pinot Noir Room B	Pinot Noir Room C	Pinot Noir Room D	Pinot Noir Room E	Pinot Noir Room F
Monday	08:30am-10:30am	FLMR-1	ENTS-1	OSPE-1	AERO-1	HVAC-1	HMTR-1	NMMS-1
	01:40pm -03:00pm	AERO-2	ENTS-2	OSPE-2	FLMR-2	FLMR-3	HMTR-2	NMMS-2
	04:30pm-06:10pm	OSPE-3	FLMR-4	ENTS-3	AERO-3	HVAC-2	HMTR-3	
Tuesday	08:30am-10:30am	FLMR-5	ENTS-4	OSPE-4	AERO-4	HVAC-3	HMTR-4	FLMR-6
	01:40pm -03:00pm	FLMR-7	ENTS-5	OSPE-5	AERO-5	COMB-1	HMTR-5	BIOE-1
	04:30pm-06:10pm	FLMR-8	ENTS-6	OSPE-6	AERO-6	COMB-2	HMTR-6	BIOE-2
Wednesday	08:30am-10:30am	COMB-3	ENTS-7	FLMR-9	FLMR-10	AERO-7	HMTR-7	HMTR-8
	01:40pm -03:00pm	NUCE-1	ENTS-8	FLMR-11	COMB-4	AERO-8	HMTR-9	FLMR-12
	04:30pm-06:10pm	HMTR-10	ENTS-9	FLMR-13	COMB-5	-	FLMR-14	NUCE-2
Thursday	08:30am-10:30am	FLMR-15	ENTS-10	FLMR-16	ENTS-11	-	HMTR-11	-

Symposium	Abbreviation
Aerospace Engineering	AERO
Bioengineering	BIOE
Combustion	COMB
Energy and Thermal Systems	ENTS
Fluid Mechanics and Rheology	FLMR
Heat and Mass Transfer	HMTR
Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC
Nano and Microfluidic and Micro-Systems	NMMS
Nuclear Engineering	NUCE
Offshore and Petroleum Engineering	OSPE

ORAL SESSIONS

MONDAY

Start	End		Malbec Hall		Room Pinot A		Room Pinot B		Room Pinot C		Room Pinot D		Room Pinot E		Room Pinot F
08:30	08:50	FIMR-1	610	ENTS-1	183	OSPE-1	327	AERO-1	158	HVAC-1	71	HMTR-1	40	NMMS-1	268
08:50	09:10		402		413		687		594		260		99		274
09:10	09:30		13		134		270				22		361		546
09:30	09:50		540		346		213		30		726		297		179
09:50	10:10		247		136		234		184		665		143		331
10:10	10:30		65		521		164				369		272		142
10:30	10:55		*Cofee break*												
11:00	12:00		**Plenary Keynote Lecture**												
12:00	13:40		*Lunch*												
13:40	14:00	AERO-2	AERO Keynote Lecture	ENTS-2	528	OSPE-2	362	FIMR-2	*383*	FIMR-3	477	HMTR-2	72	NMMS-2	36
14:00	14:20				*691*		189		86		567		423		217
14:20	14:40				281		130		*309*		435		271		215
14:40	15:00				**551**		504		*70*		564		676		470
15:05	16:05		**ABCM Awards**												
16:05	16:30		*Cofee break*												
16:30	16:50	OSPE-3	OSPE / FLMR Keynote Lecture	ENTS-3	240	FIMR-4	*453*	AERO-3	74	HVAC-2	429	HMTR-3	357		
16:50	17:10				210		*147*		35		135		337		
17:10	17:30				*485*		*377*				*119*		243		
17:30	17:50				511		*571*		728		335		465		
17:50	18:10				554		*625*		246				399		

TUESDAY

Start	End		Malbec Hall		Room Pinot A		Room Pinot B		Room Pinot C		Room Pinot D		Room Pinot E		Room Pinot F
08:30	08:50	FIMR-5	157	ENTS-4	219	OSPE-4	233	AERO-4	196	HVAC-3	171	HMTR-4	145	FLMR-6	444
08:50	09:10		560		303		98		340		256		543		230
09:10	09:30		637		78		241		569		370		172		486
09:30	09:50		463		280		1		436		252		450		431
09:50	10:10		298		590		406		439		38		Book release		703
10:10	10:30		582		700		536		484						51
10:30	10:55		*Cofee break*												
11:00	12:00		**Plenary Keynote Lecture**												
12:00	13:40		*Lunch*												
13:40	14:00	FIMR-7	100	ENTS-5	44	OSPE-5	*229*	AERO-5	46	COMB-1	125	HMTR-5	122	BIOE-1	515
14:00	14:20		FLMR Keynote Lecture		*323*		*709*		88		618		279		509
14:20	14:40				218		*137*				277		123		557
14:40	15:00				238		*63*				579		16		613
15:05	16:05		**Plenary Keynote Lecture**												
16:05	16:30		*Cofee break*												
16:30	16:50	FIMR-8	299	ENTS-6	118	OSPE-6	245	AERO-6	355	COMB-2	617	HMTR-6	56	BIOE-2	188
16:50	17:10		573		104		718		442		251		572		631
17:10	17:30		301		*129*		244		194		553		349		723
17:30	17:50		91		325		514		192		23		108		527
17:50	18:10		17		201						581		166		471

ORAL SESSIONS

WEDNESDAY

Start	End		Malbec Hall		Room Pinot A		Room Pinot B		Room Pinot C		Room Pinot D		Room Pinot E		Room Pinot F
08:30	08:50	COMB-3	255	ENTS-7	253	FIMR-9	55	FIMR-10	473	AERO-7	577	HMTR-7	354	HMTR-8	
08:50	09:10		220		680		503		24		686		167		28
09:10	09:30		COMB Keunote Lecture		651		612		85		8		649		288
09:30	09:50				539		427		276		635		425		476
09:50	10:10				548		82		259				363		644
10:10	10:30		EdC Anouncements		719		**195**		64				513		725
10:30	10:55		*Cofee break*												
11:00	12:00		*Plenary Keynote Lecture*												
12:00	13:40		*Lunch*												
13:40	14:00	NUCE-1	NUCE Keynote Lecture	ENTS-8	493	FIMR-11	*669*	COMB-4	89	AERO-8		HMTR-9	401	FIMR-12	300
14:00	14:20				*186*		*321*		57		296		211		290
14:20	14:40				330		*710*		79		640		269		278
14:40	15:00		670		200		*480*		562		467		724		538
15:05	16:05		*Plenary Keynote Lecture*												
16:05	16:30		*Cofee break*												
16:30	16:50	HMTR-10	438	ENTS-9	334	FIMR-13	466	COMB-5	366			FIMR-14	94	NUCE-2	102
16:50	17:10		286		523		112		25				248		694
17:10	17:30		HMTR Keynote Lecture		*487*		*400*		593				*673*		3
17:30	17:50				371		139		154				42		697
17:50	18:10				628								715		254

THURSDAY

Start	End		Malbec Hall		Room Pinot A		Room Pinot B		Room Pinot C		Room Pinot D		Room Pinot E		Room Pinot F
08:30	08:50	FIMR-15	446	ENTS-10	478	FLMR-16	31	ENTS-11	729			HMTR-11	20		
08:50	09:10		10		575		420		32				92		
09:10	09:30		295		198		675		359				350		
09:30	09:50		426		404		324		275				437		
09:50	10:10		358		661		328		441						
10:10	10:30				47		263		77						
10:30	10:55		*Cofee break*												
11:00	12:15		*Invited Talk and Closing Session*												

16:30 - 18:10

MONDAY		TUESDAY		WEDNESDAY	
COMB-P1	208	FLMR-P2	558	ENTS-P2	411
	422		27		258
	190		382		170
	62		53		620
	117		693		302
	292		132		595
	510		519		716
	250		204		418
	449		655		563
	146		643		632
	242		720		293
	711		225		374
	728		469		712
ENTS-P1	419	OSPE-P	202		21
	395		5		97
	565		45		624
	322		249		628
	317		468	FLMR-P3	656
	597		180		316
	66		456		49
	373	HVAC-P	499		58
	7		667		76
	364		502		121
	550		380		284
AERO-P	61		498		144
	338		695	HMTR-P2	490
	101	HMTR-P1	75		578
	126		178		73
	608		721		265
BIOE-P	14		6		285
FLMR-P1	221		222		376
		COMB-P2	409	COMB-P3	615
		NUCE-P	434		

AUTHORS AND PAPERS

Author	Article Number	Symposium	Title	Type
Abdel-Farid Mamadou Idrissou	38	HVAC	Exergoeconomic analysis of a hybrid system of waste incineration and absorption refrigeration	poster
Abdel-Farid Mamadou Idrissou	465	HMTR	MATHEMATICAL MODELING AND SIMULATION OF AN INTENSIVE CARE UNIT MECHANICAL VENTILATOR FOR HEATING AND AIR	oral
Abdul Orlando Cárdenas Gómez	325	ENTS	Experimental analysis of the heat and mass transfer of a flat sheet module of direct contact membrane distillation (DCMD) for	oral
Adão Souza Gonçalves	514	OSPE	CHARACTERIZATION OF THE ROUGHNESS PATTERN AND REYNOLDS NUMBER EFFECTS ON THE SCALE DEPOSITS IN PIPE FLOWS	oral
Admilson Franco	400	FLMR	FLOW PATTERNS IN HORIZONTAL TRANSPORTATION OF BENTONITE PARTICLES	oral
Admilson Franco	406	OSPE	MACHINE LEARNING MODEL TO DETERMINE THE CURVE-FITTING EQUATION FOR PREDICTION OF THE STARTUP OF NON-BROV	oral
Admilson Franco	718	OSPE	The role of Pressure on the yield stress and dynamic moduli for an Inverted Emulsion Drilling Fluid	oral
Adonis Menezes	676	HMTR	Nucleate pool boiling of Carbon Dioxide on a horizontal and vertical surface	oral
Adriana Ferla de Oliveira	277	COMB	Co-combustion of floated sludge from a slaughterhouse wastewater treatment plant with eucalyptus woodchips in a biomass s	oral
Adriana Maria da silva	615	COMB	THERMAL BEHAVIOR OF COMBUSTION OF MIXTURES OF CRUDE GLYCEROL AND SOYBEAN RESIDUES	poster
Adriane Prisco Petry	97	ENTS	Hybrid photovoltaic-wind power plants: Brazilian legislation and state of the art	poster
Adriane Prisco Petry	100	FLMR	NUMERICAL STUDY OF TANDEM SLENDER CYLINDERS ON A TURBULENT CROSSFLOW	oral
Adriane Prisco Petry	551	ENTS	High-resolution WRF-LES simulations of a diurnal cycle with a nocturnal jet from a gravity current over complex terrain	oral
ADRIANO DE ANDRADE BRESOLIN	75	HMTR	An initial study on an EV battery prismatic cell thermal behavior	poster
ADRIANO DE ANDRADE BRESOLIN	77	ENTS	Electrothermal simulation of electric vehicles battery under driving conditions.	oral
Adriano Marques	7	ENTS	THERMOECONOMIC EVALUATION OF A HIGH-PERFORMANCE POLYGENERATION SYSTEM	poster
Aida Ramona Ortiz	560	FLMR	Dissolved Oxygen Hydrodynamic Simulation using coupling wing-bottom Shallow Water and Contaminant Transport Formulatio	oral
Alam Trovó	409	COMB	BOUDOUARD, REFORMING OF CHAR AND METHANATION REACTION EVALUATION BY CFD SIMULATIONS OF FLUIDIZED-BED RE	poster
Alan Carneiro	510	COMB	STUDY OF METHODOLOGIES FOR DETERMINING HIGHER AND LOWER HEATING VALUE THROUGH IMMEDIATE ANALYSIS OF EU	poster
Alan Nakashima	404	ENTS	Magnetic Refrigeration Technology Assessment: Design of a Magnetic Wine Cooler	oral
Alan Nakashima	429	HVAC	Enhancing the Frequency of Magnetic Refrigerators Using Dummy Regenerators	oral
Alan Nakashima	725	HMTR	THERMAL-HYDRAULIC CHARACTERIZATION OF A TRIANGULAR MICROCHANNEL REGENERATOR VIA THE SINGLE-BLOW METHO	oral
Alana Brito	569	AERO	AERODYNAMIC HEATING CALCULATION FOR A HYPERSONIC AIRBREATHING PROPULSION SYSTEM AT MACH NUMBER 7	oral
Alana Brito	608	AERO	Preliminary Evaluation of the Shape Memory Alloy Additive Manufacturing Process Using Selective Laser Melting for Applicatio	poster
Aldemar Martínez	125	COMB	ENERGY USE AND THERMOCHEMICAL CONVERSION OF OILY WASTE THROUGH AIR/STEAM GASIFICATION	oral
Alejandro Gutiérrez	551	ENTS	High-resolution WRF-LES simulations of a diurnal cycle with a nocturnal jet from a gravity current over complex terrain	oral
Alessandro dos Santos Pereira	335	HVAC	Numerical Analysis Of Volumetric Inefficiencies Of A Small Variable Capacity Reciprocating Compressor	oral
Alex Álisson Bandeira Santos	643	FLMR	DIFFUSER STUDY FOR ENHANCING THE EFFICIENCY OF WIND TURBINES	poster
Alex Bimbato	27	FLMR	USE OF A FAST MULTIPOLE METHOD TO REDUCE THE COMPUTATIONAL COSTS OF AIRCRAFT WAKES SIMULATIONS	poster
Alex Bimbato	94	FLMR	A PURELY LAGRANGIAN METHOD FOR SIMULATING SURFACE ROUGHNESS EFFECTS ON FLOW PAST A SOLID BODY	oral
Alex Bimbato	147	FLMR	Numerical Simulation of Vortices Generated at the Wing Tips of Aircraft near a Rough Ground Plane by using Lagrangian Descri	oral
Alex Henrique Coutinho Santos	171	HVAC	REFRIGERANT SELECTION FOR A CHILLER AIR CONDITIONING SYSTEM IN BRAZIL	oral
Alex Roger Almeida Colmanetti	143	HMTR	Evaluation of the thermal-hydraulic performance of heat exchanger for energy reuse in organic Rankine cycles	oral
Alex Roger Almeida Colmanetti	536	OSPE	Experimental study on droplets breakage of oil-water emulsions (O/W) across a variable pressure drop device	oral
Alex Santos	101	AERO	DESIGN OF A TEST BENCH FOR ELECTRIC PROPULSION SYSTEMS OF UNMANNED AERIAL VEHICLES	poster
alex waldmann	327	OSPE	Flexibilizing Hydraulic Limits for offshore inclined Wells	oral
Alexander Marchione	527	BIOE	Simplified mathematical model of thermal response of an abdomen after abdominoplasty	oral
Alexander Penaranda	190	COMB	Study of the influence of injection timing and direction in the performance of a spark ignition engine fueled with gasoline-etha	poster
Alexander Weimann	129	ENTS	MINIMIZATION OF ELECTRICITY GENERATION COSTS WITH SMALL CAPACITIES CC-MCI-CRO	oral
Alexandre Kupka da Silva	680	ENTS	A PRELIMINARY NUMERICAL STUDY OF A CONSTANT-PRESSURE SUPERCRITICAL FLUID-BASED THERMAL ENERGY STORAGE RES	oral
Alexandre Kupka da Silva	716	ENTS	THERMAL MODELS OF DIRECT MOLTEN SALT LINEAR FRESNEL SYSTEM	poster
Alexandre Kupka da Silva	724	HMTR	Experimental Evaluation on the effect of magnetite in aerogel form on the dielectric breakdown strength and thermal conducti	oral
Alexandre Mateus Mendonça Bezerra	45	OSPE	USE OF TAGGING AND CRITICALITY MATRIX AS PARAMETERS FOR MAINTENANCE OF HYDROMECHANICAL EQUIPMENT OF THE	poster
Alexandre Moura da Silveira	293	ENTS	STUDY OF THE DISPOSAL OF THE WASTE FROM THE HYDROGEN GENERATION REACTION FROM ALUMINUM OXIDATION IN AN	poster
Alexandre Moura da Silveira	302	ENTS	Mathematical modeling of a hydrogen production reactor from aluminum waste	poster
Alexandre Pereira	362	OSPE	A LSTM Neural Network Approach for the Rock Formation Consolidation Inference of Brazilian Sandstone Reservoirs	oral
Alexsandro Santos Silveira	256	HVAC	TEMPERATURE CONTROL OF DOMESTIC REFRIGERATORS BASED UPON THE ELECTRIC CURRENT OF THE COMPRESSOR	oral
Alfredo Gamboa	166	HMTR	Estimation of the Deposition Rates of Atmospheric Pollutants Using Particle Swarm Optimization	oral

Alice Machado	130	OSPE	EXPERIMENTAL INVESTIGATION OF THE TEMPORAL AND RADIAL VARIATION OF THE COMPOSITION OF WAX DEPOSITS FORME	oral
Aline Novaes	244	OSPE	LIQUID-LIQUID DISPLACEMENT FLOWS IN A RADIAL HELE-SHAW CELL	oral
Aline Peres Leal	63	OSPE	VALIDATION OF A LOW-COST IMU FOR VIBRATION TRACKING ALONG OFFSHORE LINE MODELS	oral
Aline Righi	30	AERO	A Computational Analysis and Validation of a Laminar-Turbulent Transition Model Including Crossflow Effects	oral
Álisson Renan Stochero da Silva	571	FLMR	Evaluation of minimum fluidization velocities for various particulates and operating conditions	oral
Allan Clemente	371	ENTS	A comparative analysis of hypotheses in modeling a hybrid compression refrigeration cycle	oral
Allan Ricardo Starke	716	ENTS	THERMAL MODELS OF DIRECT MOLTEN SALT LINEAR FRESNEL SYSTEM	poster
Allefe Chagas Vaz	272	HMTR	EXPERIMENTAL EVALUATION OF THERMAL PERFORMANCE OF A HEAT EXCHANGER USING THERMOSYPHONS	oral
Aloisio Orlando	536	OSPE	Experimental study on droplets breakage of oil-water emulsions (O/W) across a variable pressure drop device	oral
ALUISIO PANTALEAO	157	FLMR	Analysis of the impacts caused by the insertion of leading-edge tubercles over a Francis turbine runner	oral
ALUISIO PANTALEAO	377	FLMR	EXPERIMENTAL STUDY OF THE CAVITATION ON BIO-INSPIRED HYDROFOILS WITH LEADING-EDGE PROTUBERANCES	oral
ALUISIO PANTALEAO	442	AERO	Solution of Transonic Flow Over a Supercritical Wing With Forced Oscillation	oral
ALUISIO PANTALEAO	519	FLMR	On the use of CFD to investigate the aeroelastic behavior of an airfoil	poster
ALUISIO PANTALEAO	573	FLMR	Experimental Analysis of the Flow Around Ahmed Bodies in Tandem Position	oral
Alvaro de Bortoli	435	FLMR	COMPUTATIONAL ANALYSIS OF THE FLOW IN A BACKWARD-FACING STEP WITH AN EXPANSION RATIO OF 1.94	oral
Alysson Henrique Rublesperger de Almeida	316	FLMR	Influence Analysis of the Closing Parameters in the Unit Cell Model for Gas-Liquid Flows in the Intermittent Pattern	poster
Amanda Carvalho	712	ENTS	DETERMINATION OF MINIMUM FLUIDIZATION VELOCITY OF AÇAÍ SEEDS BY EXPERIMENTAL DATA AND NUMERICAL SIMULATIO	poster
Amanda C. S. N. Pessoa	268	NMMS	New approaches in the study of water-oil flow in a PDMS-based porous media micromodel	oral
Amanda Chenu Romano	439	AERO	Numerical simulation of turbulent compressible flow over a surface bump	oral
AMANDA LUCENA DE MEDEIROS	712	ENTS	DETERMINATION OF MINIMUM FLUIDIZATION VELOCITY OF AÇAÍ SEEDS BY EXPERIMENTAL DATA AND NUMERICAL SIMULATIO	poster
Amaury Oquendo	317	ENTS	Experimental analysis of a solar thermal energy storage system based on phase change materials (PCM) for air heating applica	poster
Amir Antonio Martins Oliveira	57	COMB	C1-C4 ALCOHOLS FOR THE TRANSPORTATION INDUSTRY: DETAILED KINETICS MODELS ASSESSMENT IN TERMS OF LAMINAR FL	oral
Amir Antonio Martins Oliveira	62	COMB	COMBUSTION-TURBULENCE INTERACTION AND ENGINE PERFORMANCE: A CRFD NUMERICAL SIMULATION ON DIRECT-INJECTI	poster
Amir Antonio Martins Oliveira	242	COMB	REDUCTION TECHNIQUES FOR DETAILED KINETICS MODELS: A NUMERICAL ASSESSMENT FOCUSED ON TRANSPORTATION FUE	poster
Amir Antonio Martins Oliveira	255	COMB	(BIO)FUEL SURROGATES FOR THE TRANSPORTATION INDUSTRY: A LITERATURE REVIEW INCLUDING DETAILED KINETICS MODEL	oral
Amir Antonio Martins Oliveira	593	COMB	Numerical Study of Triple Flames in Partially Premixed Methane and Hydrogen-Air Mixtures	oral
Amir Roberto De Toni Junior	427	FLMR	Numerical investigation of the heat transfer of a viscoplastic flow inside a cavity with embedded cylinders	oral
Amir Roberto De Toni Junior	508	ENTS	ASSESSMENT OF EXERGETIC EFFICIENCY OF BRAZILIAN METROPOLES EVALUATING THE INTRODUCTION OF ELECTROMOBILITY	oral
Ana Clara Saccol	631	BIOE	PARAMETRIC ANALYSIS OF HUMAN BREAST THERMAL RESPONSE AS AN AID FOR EARLY CANCER DIAGNOSIS	oral
Ana Cristina Neves Carloni	192	AERO	Development of Transonic Unsteady Aerodynamic Reduced-Order Models Using System Identification Techniques	oral
Ana Elisa Basilio	594	AERO	Study of Compressible Direct Numerical Simulations of Wave Packets Interacting with Bumps	oral
Ana Helena de Campos Pereira	628	ENTS	Experimental study of Ex-situ catalytic pyrolysis of sugarcane bagasse using calcium oxide as catalyst	poster
Ana Helena de Campos Pereira	632	ENTS	IN-SITU catalytic pyrolysis of sugarcane bagasse using calcium carbonate for biofuel production.	poster
Ana Júlia Antunes Cintra Rosa	422	COMB	Comparative study regarding the use of hydrogen, natural gas and biogas for dual-fuel operation in diesel engines	poster
Ana Julia de Oliveira Silva	628	ENTS	Experimental study of Ex-situ catalytic pyrolysis of sugarcane bagasse using calcium oxide as catalyst	poster
Ana Julia de Oliveira Silva	632	ENTS	IN-SITU catalytic pyrolysis of sugarcane bagasse using calcium carbonate for biofuel production.	poster
Ana Lívia Formiga Leite	511	ENTS	Technical and economic feasibility analysis of a biogas cogeneration plant for a residential condominium	oral
Ana Lúcia Silva	321	FLMR	THERMOMECHANICAL AND RHEOLOGICAL ANALYSIS OF POLYAMIDE 11 UNDER AGEING CONDITIONS IN OFFSHORE FIELDS	oral
Ana Maria Domingues	361	HMTR	Evaluating the performance of Earth-air heat exchangers coupled to a galvanized square cylinder under different installation de	oral
ANA PAULA DA SILVA	640	AERO	Evaluating the effect of grain geometry and the particle size of ammonium perchlorate on the combustion of Base Bleed prope	oral
ANA PAULA DA SILVA	686	AERO	TEST BENCH FOR MEASURING THE REGRESSION RATE OF SOLID PROPELLANTS	oral
Ana Paula Mattos	101	AERO	DESIGN OF A TEST BENCH FOR ELECTRIC PROPULSION SYSTEMS OF UNMANNED AERIAL VEHICLES	poster
Ana Paula Mattos	510	COMB	STUDY OF METHODOLOGIES FOR DETERMINING HIGHER AND LOWER HEATING VALUE THROUGH IMMEDIATE ANALYSIS OF EU	poster
Ana Paula Mattos	563	ENTS	Thermodynamic study through EES of the use of biogas in power systems in sugar and ethanol plants	poster
Ana Paula Reinert	293	ENTS	STUDY OF THE DISPOSAL OF THE WASTE FROM THE HYDROGEN GENERATION REACTION FROM ALUMINUM OXIDATION IN AN	poster
Andersan dos Santos Paula	608	AERO	Preliminary Evaluation of the Shape Memory Alloy Additive Manufacturing Process Using Selective Laser Melting for Applicatio	poster
ANDERSON PALMEIRA	258	ENTS	SOLAR IRRADIATION MODELING IN VALE SÃO FRANCISCO DA BAHIA USING THE WRF-SOLAR MESOSCALE MODEL	poster
Anderson Geraldo Marenda Pukasiewicz	126	AERO	Thermal diffusivity and surface mechanical properties of the plasma nitrided Hastelloy X superalloy	poster
Anderson Lorenzoni	404	ENTS	Magnetic Refrigeration Technology Assessment: Design of a Magnetic Wine Cooler	oral
Anderson Lorenzoni	429	HVAC	Enhancing the Frequency of Magnetic Refrigerators Using Dummy Regenerators	oral

André Vicente	98	OSPE	Laplace Transform-Based Modeling of Heat Transfer in Producing Wellbores	oral
André Bellin Mariano	293	ENTS	STUDY OF THE DISPOSAL OF THE WASTE FROM THE HYDROGEN GENERATION REACTION FROM ALUMINUM OXIDATION IN AN	poster
André Bellin Mariano	302	ENTS	Mathematical modeling of a hydrogen production reactor from aluminum waste	poster
André Bellin Mariano	373	ENTS	MODELING AND SIMULATION APPLIED TO THE THERMAL MANAGEMENT OF ELECTRONIC SYSTEMS	poster
André Bellin Mariano	498	HVAC	MATHEMATICAL MODELING OF AN AIR CONDITIONER TO SIMULATE THE COOLING OF SPACES	poster
André Bellin Mariano	509	BIOE	Microalgae biomass production using swine wastewater for biofuels production and effluent bioremediation	oral
André Bellin Mariano	515	BIOE	Biotechnological potential of microalgae in high-value compounds extraction and biofuels production	oral
André Bellin Mariano	557	BIOE	MATHEMATICAL MODELING AND SIMULATION OF BATCH REGIME FOR IMMOBILIZED MICROALGAE PHOTOBIOREACTOR FOR E	oral
André Bellin Mariano	631	BIOE	PARAMETRIC ANALYSIS OF HUMAN BREAST THERMAL RESPONSE AS AN AID FOR EARLY CANCER DIAGNOSIS	oral
André Fujarra	63	OSPE	VALIDATION OF A LOW-COST IMU FOR VIBRATION TRACKING ALONG OFFSHORE LINE MODELS	oral
André João de Souza	1	OSPE	Industrial Valves For Thermal Applications at Low Temperatures: Literature Review and Case Study	oral
Andre Leibsohn Martins	132	FLMR	PORE-SCALE SIMULATION OF CaCO3 SCALING EFFECTS ON LOSS OF PRODUCTION IN OIL RESERVOIRS	poster
Andre Leibsohn Martins	245	OSPE	DISPLACEMENT EFFICIENCY IN WASHOUT ZONES DURING WELL CONSTRUCTION	oral
Andre Leibsohn Martins	327	OSPE	Flexibilizing Hydraulic Limits for offshore inclined Wells	oral
Andre Leibsohn Martins	362	OSPE	A LSTM Neural Network Approach for the Rock Formation Consolidation Inference of Brazilian Sandstone Reservoirs	oral
Andre Leibsohn Martins	503	FLMR	Experimental Study of Fracture-Filling by a Non-Newtonian Fluid Flow With Particulate Material	oral
Andre Leibsohn Martins	504	OSPE	MODELING AND SIMULATION OF INTERNAL CONTROL VALVE (ICV) CALCIUM CARBONATE SCALE FORMATION	oral
André Luiz Tenório Rezende	230	FLMR	Numerical study of artillery ammunition range increase using base bleed technology	oral
ANDRE LUIZ FUERBACK	75	HMTR	An initial study on an EV battery prismatic cell thermal behavior	poster
ANDRE LUIZ FUERBACK	77	ENTS	Electrothermal simulation of electric vehicles battery under driving conditions.	oral
Andre Maurente	265	HMTR	Effect of Nanoparticle Biodistribution in the Laser Induced Thermal Therapy: a Skin Cancer Embedded with Gold Nanoshells	poster
Andre Maurente	337	HMTR	Simulation of a cooling processes of wort using a immersion chiller	oral
Andre Maurente	425	HMTR	2D EVALUATION OF THE RADIATIVE HEAT FLUX IN LIVING TISSUE DURING PHOTO THERMAL TERAPY	oral
André Mesquita	346	ENTS	Spillway operation effects on the feasibility of a hybrid solar pumped storage system for supplying energy to a lock	oral
André Mesquita	693	FLMR	Numerical model for analysis of axial-flow pumps designed using the minimum pressure coefficient criterion	poster
André Provensi	726	HVAC	Analysis of a compact cooling system containing an enhanced-surface spray heat sink	oral
Andre Sa Alves Vilela	186	ENTS	Performance analysis of a solar tower power plant based on the s-CO2 Brayton cycle	oral
Andre Sa Alves Vilela	201	ENTS	Feasibility assessment of a TES unit of a CSP plant in Brazil	oral
André Vilela	238	ENTS	THERMODYNAMIC ANALYSIS OF THE INFLUENCE OF CARBON DIOXIDE AS DILUENT IN OXY-FUEL COMBUSTION GAS TURBINES	oral
André Vilela	323	ENTS	Exergetic analysis of a supercritical cogeneration system proposed for a sugarcane mill producing sugar and ethanol	oral
Andrea Mora	295	FLMR	Effects of SiO2 nanoparticles on the shear and extensional rheology of mechanically degraded partially hydrolyzed polyacrylam	oral
Andreas Nascimento	411	ENTS	Comparative analysis of well drilling techniques for water and geothermal energy recovery	poster
Andrés Armando Mendiburu Zevallos	49	FLMR	FROZEN CORE-ANNULAR FLOW MODEL IN THE EFFERVESCENT ATOMIZER	poster
Andrés Armando Mendiburu Zevallos	66	ENTS	DETERMINATION OF EXERGETIC AND ECONOMIC PARAMETERS OF A NATURAL GAS COMBINED CYCLE THERMOELECTRIC POW	poster
Andrés Armando Mendiburu Zevallos	104	ENTS	Thermodynamic Modelling of Rotating Detonation Engines Cycles	oral
Andrés Armando Mendiburu Zevallos	154	COMB	Study of Flame Propagation Velocity Inside a Closed Duct and Validation with Flame Propagation Theory	oral
Andrés Armando Mendiburu Zevallos	366	COMB	STUDY OF FLAME ACCELERATION IN A CLOSED DUCT USING EFFECTIVE LEWIS AND ZELDOVICH NUMBERS AS PARAMETERS	oral
Andrés Armando Mendiburu Zevallos	728	COMB	EXPERIMENTAL STUDY OF THE GAS ATMOSPHERE EFFECTS ON A STOICHIOMETRIC PREMIXED FLAME	poster
Andrey Pereira	562	COMB	CHARACTERIZATION OF COMBUSTION PARAMETERS IN A SPARK-IGNITION ENGINE USING H2 AS FUEL	oral
Anelize Terroni Teixeira	578	HMTR	A NUMERICAL STUDY OF NATURAL CONVECTIVE HEAT TRANSFER FROM A HORIZONTAL TWO-DIMENSIONAL TWO-SIDED PLAT	poster
Angel De Jesus Rivera Jimenez	400	FLMR	FLOW PATTERNS IN HORIZONTAL TRANSPORTATION OF BENTONITE PARTICLES	oral
Angel De Jesus Rivera Jimenez	406	OSPE	MACHINE LEARNING MODEL TO DETERMINE THE CURVE-FITTING EQUATION FOR PREDICTION OF THE STARTUP OF NON-BRO	oral
Angela Nieckele	20	HMTR	A CRITICAL EVALUTAION OF FICK'S VERSUS STEFAN MAXWELL DIFFUSION MODELS TO PREDICT WAX DEPOSITION	oral
Angela Nieckele	86	FLMR	Linear stability analysis of closure models for the 1D Two-Fluid Model: a focus on the velocity shape factor	oral
Angela Nieckele	130	OSPE	EXPERIMENTAL INVESTIGATION OF THE TEMPORAL AND RADIAL VARIATION OF THE COMPOSITION OF WAX DEPOSITS FORME	oral
Angelo Passaro	439	AERO	Numerical simulation of turbulent compressible flow over a surface bump	oral
Anthony Hutin	295	FLMR	Effects of SiO2 nanoparticles on the shear and extensional rheology of mechanically degraded partially hydrolyzed polyacrylam	oral
Anton Albino	543	HMTR	Solution of a two dimensional convection heat transfer problem with quantum computing	oral
Antonio Bannwart	42	FLMR	Pressure field in a centrifugal pump computed from particle image velocimetry	oral
Antonio Brasil Junior	453	FLMR	A numerical simulation study on a H-Darrieus wind turbine	oral

Antônio Carlos Barbosa Zancanella	180	OSPE	BIBLIOMETRIC ANALYSIS, SYSTEMATIC REVIEW AND EXPERIMENTAL STUDY OF SURFACE AND MATERIAL EFFECT IN CALCIUM	poster
Antonio Garrido Gallego	238	ENTS	THERMODYNAMIC ANALYSIS OF THE INFLUENCE OF CARBON DIOXIDE AS DILUENT IN OXY-FUEL COMBUSTION GAS TURBINES	oral
Antonio Garrido Gallego	323	ENTS	Exergetic analysis of a supercritical cogeneration system proposed for a sugarcane mill producing sugar and ethanol	oral
Antonio Henrique Monteiro da Fonseca Thome	321	FLMR	THERMOMECHANICAL AND RHEOLOGICAL ANALYSIS OF POLYAMIDE 11 UNDER AGEING CONDITIONS IN OFFSHORE FIELDS	oral
Antônio Silva Neto	108	HMTR	Estimation of pollution sources with Physics-Informed Neural Network	oral
Antônio Silva Neto	166	HMTR	Estimation of the Deposition Rates of Atmospheric Pollutants Using Particle Swarm Optimization	oral
Antônio Silva Neto	543	HMTR	Solution of a two dimensional convection heat transfer problem with quantum computing	oral
Aristeu Silveira Neto	247	FLMR	VALIDATION OF IMERSPEC2D USING GREEN-TAYLOR VORTICES AND TEMPORAL JET	oral
Arlindo Tribess	71	HVAC	Assessment of the risks of cross-infection by covid-19 using different outdoor ventilation rates in a classroom conditioned with	oral
Arnaldo Leal Junior	468	OSPE	Detection of Calcium Carbonate Precipitation by Sensors Based on Fiber Optic Bragg Networks	poster
Arnold Martinez	317	ENTS	Experimental analysis of a solar thermal energy storage system based on phase change materials (PCM) for air heating applica	poster
Arthur Augusto Alves	377	FLMR	EXPERIMENTAL STUDY OF THE CAVITATION ON BIO-INSPIRED HYDROFOILS WITH LEADING-EDGE PROTUBERANCES	oral
Arthur França Martins	558	FLMR	Numerical simulation of the geometrical parameters influence on uniflow cyclone recirculation zones	poster
Arthur Guilherme	480	FLMR	Ferrofluid droplets under external magnetic field and shear flow in non-equilibrium magnetization regime	oral
ARTHUR MENDES	449	COMB	PERFORMANCE AND KNOCKING ANALYSIS OF A MOTOR GENERATOR GROUP OPERATING IN THE OTTO CYCLE WITH GASOLINE	poster
Arthur Mendonça de Azevedo	145	HMTR	PARALLELIZED NUMERICAL SIMULATION RUN IN GPU FOR THE ANALYSIS OF THE THERMAL EFFECTS IN THE APPLICATION OF D	oral
Arthur Mendonça de Azevedo	349	HMTR	DETERMINATION OF THERMAL PROPERTIES AT HIGH TEMPERATURES BY THE APPLICATION OF AN OPTIMIZED INVERSE PROBLE	oral
Arthur Mendonça de Azevedo	437	HMTR	Estimation of heat convection coefficient in a solid propellant rocket motor nozzle	oral
Arthur Pandolfo da Veiga	98	OSPE	Laplace Transform-Based Modeling of Heat Transfer in Producing Wellbores	oral
Arthur Vieira da Silva Oliveira	16	HMTR	Cooling of a metallic sheet during the impact of a water droplet measured by high-speed infrared thermography	oral
Arthur Vieira da Silva Oliveira	17	FLMR	Regimes and dynamics of a droplet impacting a heated wall by high-speed shadowgraphy	oral
Atila Pantaleão Silva Freire	473	FLMR	EXPERIMENTAL AND NUMERICAL ANALYSIS OF EROSION BY PARTICLE-LADEN IMPINGING JETS	oral
Atila Pantaleão Silva Freire	538	FLMR	Experimental investigation of bubble turbulent fragmentation in a centrifugal pump	oral
Atilio Lourenço	371	ENTS	A comparative analysis of hypotheses in modeling a hybrid compression refrigeration cycle	oral
Augusto Bornschlegell	673	FLMR	NUMERICAL STUDY OF FLOW PAST IN A ROTATING ELLIPTICAL CYLINDER FOR RE=5000	oral
Augusto Delavald Marques	539	ENTS	Power Plant Performance Assessment - Physical and Machine Learning Integration Through Multifidelity Modeling	oral
Augusto Finger Pacheco	242	COMB	REDUCTION TECHNIQUES FOR DETAILED KINETICS MODELS: A NUMERICAL ASSESSMENT FOCUSED ON TRANSPORTATION FUEL	poster
Ayrton Cavallini Zotelle	53	FLMR	NUMERICAL MODELLING OF MICRO-SCALE LIQUID-LIQUID DISPLACEMENT IN HOMOGENEOUS AND HETEROGENEOUS POROUS	poster
Ayrton Cavallini Zotelle	132	FLMR	PORE-SCALE SIMULATION OF CaCO3 SCALING EFFECTS ON LOSS OF PRODUCTION IN OIL RESERVOIRS	poster
Beatriz Jacob Furlan	14	BIOE	MICROALGAE BIOPOLYMERS: A REVIEW	poster
Beatriz Jacob Furlan	293	ENTS	STUDY OF THE DISPOSAL OF THE WASTE FROM THE HYDROGEN GENERATION REACTION FROM ALUMINUM OXIDATION IN AN	poster
Beatriz Jacob Furlan	302	ENTS	Mathematical modeling of a hydrogen production reactor from aluminum waste	poster
Beatriz Jacob Furlan	359	ENTS	MATHEMATICAL MODELING AND SIMULATION OF CO2 REMOVAL FROM AN ALKALINE SOLUTION FOR FUEL CELLS APPLICATION	oral
Beatriz Jacob Furlan	557	BIOE	MATHEMATICAL MODELING AND SIMULATION OF BATCH REGIME FOR IMMOBILIZED MICROALGAE PHOTOBIOREACTOR FOR E	oral
Beatriz Pereira da Costa	485	ENTS	Life cycle assessment of biogas production from dairy cow manure on a Brazilian farm	oral
Beatriz Machado dos Santos	102	NUCE	NATURAL CONVECTION IN A VERTICAL ANNULUS FILLED WITH POROUS MEDIA WITH INTERNAL HEAT GENERATION	oral
Beatriz Marques Oliveira	422	COMB	Comparative study regarding the use of hydrogen, natural gas and biogas for dual-fuel operation in diesel engines	poster
Bernardo Vieira	725	HMTR	THERMAL-HYDRAULIC CHARACTERIZATION OF A TRIANGULAR MICROCHANNEL REGENERATOR VIA THE SINGLE-BLOW METHO	oral
Bianca Taís Visoná Carnielo	519	FLMR	On the use of CFD to investigate the aeroelastic behavior of an airfoil	poster
Bruna de Jesus Bueno Machado	628	ENTS	Experimental study of Ex-situ catalytic pyrolysis of sugarcane bagasse using calcium oxide as catalyst	poster
Bruna de Jesus Bueno Machado	632	ENTS	IN-SITU catalytic pyrolysis of sugarcane bagasse using calcium carbonate for biofuel production.	poster
Bruna Loiola	399	HMTR	NUMERICAL THERMAL ANALYSIS OF AN 81MM MORTAR	oral
Bruna Loiola	401	HMTR	STATE ESTIMATION OF THE HEAT FLUX IN AN 81 MM MORTAR	oral
Bruna Patricia Naidek	444	FLMR	EXPERIMENTAL STUDY OF THE INFLUENCE OF GAS DENSITY ON TWO-PHASE FLOW IN A ROCKING-FLOW CELL	oral
Bruno Carmo	195	FLMR	Forecast analysis and integrated optimization of wind farm yaw control using numerical simulations	oral
Bruno Carmo	551	ENTS	High-resolution WRF-LES simulations of a diurnal cycle with a nocturnal jet from a gravity current over complex terrain	oral
Bruno Castro	504	OSPE	MODELING AND SIMULATION OF INTERNAL CONTROL VALVE (ICV) CALCIUM CARBONATE SCALE FORMATION	oral
Bruno da Silva Fonseca	244	OSPE	LIQUID-LIQUID DISPLACEMENT FLOWS IN A RADIAL HELE-SHAW CELL	oral
Bruno da Silva Fonseca	245	OSPE	DISPLACEMENT EFFICIENCY IN WASHOUT ZONES DURING WELL CONSTRUCTION	oral
Bruno Henrique Marques Margotto	279	HMTR	REAL-TIME INTERNAL HEAT FLUX ESTIMATION ON PULSATING HEAT PIPES USING KALMAN FITLER	oral

Bruno Henrique Marques Margotto	286	HMTR	THERMAL CONTACT CONDUCTANCE ESTIMATION USING A TIME-DEPENDENT METHOD OF FUNDAMENTAL SOLUTIONS	oral
Bruno Loureiro	180	OSPE	BIBLIOMETRIC ANALYSIS, SYSTEMATIC REVIEW AND EXPERIMENTAL STUDY OF SURFACE AND MATERIAL EFFECT IN CALCIUM (	poster
Bruno Loureiro	284	FLMR	DRAG REDUCTION EXPERIMENTAL ANALYSIS USING MUCILAGE EXTRACTED FROM OPUNTIA COCHENILLIFERA IN ROTATING GE	poster
Bruno Loureiro	468	OSPE	Detection of Calcium Carbonate Precipitation by Sensors Based on Fiber Optic Bragg Networks	poster
Bruno Neckel Wesling	724	HMTR	Experimental Evaluation on the effect of magnetite in aerogel form on the dielectric breakdown strength and thermal conducti	oral
Bruno Pasa	617	COMB	ESTIMATING THE HIGHER HEATING VALUE OF CANDIOTA COAL USING DIFFERENT METHODS OF MACHINE LEARNING	oral
Bruno Pasa	618	COMB	Predicting the heat of combustion of alcohols and carboxylic acids using particle swarm optimization	oral
Caio Cesar de Oliveira Trigo	137	OSPE	An experimental method for the study of oscillations of pipes carrying liquid and gas mixtures in slug flow pattern	oral
Caio Macedo	665	HVAC	COMPARATIVE ANALYSIS OF ENERGY EFFICIENCY BETWEEN A MIXTURE (50% ISOBUTANE AND 50% PROPANE) IN RELATION TO	oral
Caio Morini	143	HMTR	Evaluation of the thermal-hydraulic performance of heat exchanger for energy reuse in organic Rankine cycles	oral
Caio Rufino	44	ENTS	EXERGETIC ANALYSIS OF BIOMASS TORREFACTION AND GASIFICATION FOR ENERGY GENERATION IN INTERNAL COMBUSTION	oral
Caio Rufino	292	COMB	STUDY OF ADVANCE AND DELAY OF PILOT AND MAIN INJECTIONS FOR DIFFERENT ENGINE OPERATING LOADS	poster
Calisa Lemmertz	450	HMTR	A PRELIMINARY DESIGN OF NUMERICAL EXPERIMENTS STUDY ON THE INFLUENCE OF FACTORS AFFECTING THE FIRE SPREAD IN	oral
Camilla Nickel	281	ENTS	DESIGN AND VALIDATION OF AN ETHANOL AUTOTHERMAL REFORMER	oral
Carlisson Azevedo	665	HVAC	COMPARATIVE ANALYSIS OF ENERGY EFFICIENCY BETWEEN A MIXTURE (50% ISOBUTANE AND 50% PROPANE) IN RELATION TO	oral
Carlos Baccin	188	BIOE	Numerically assessing the impact of different hyperelastic laws on the mechanical response of intracranial aneurysms walls	oral
Carlos Antonio Cabral Santos	511	ENTS	Technical and economic feasibility analysis of a biogas cogeneration plant for a residential condominium	oral
Carlos Boabaid Neto	40	HMTR	Cubic Hermite interpolation function in supercritical heat exchanger modeling	oral
Carlos Dalmaso Neto	527	BIOE	Simplified mathematical model of thermal response of an abdomen after abdominoplasty	oral
Carlos Dalmaso Neto	631	BIOE	PARAMETRIC ANALYSIS OF HUMAN BREAST THERMAL RESPONSE AS AN AID FOR EARLY CANCER DIAGNOSIS	oral
Carlos Eduardo Grossi Campos	436	AERO	Heat conduction in composite with dependence on fiber orientation in a solid rocket motor envelope	oral
Carlos Eduardo Polatschek Kopperschmidt	279	HMTR	REAL-TIME INTERNAL HEAT FLUX ESTIMATION ON PULSATING HEAT PIPES USING KALMAN FITLER	oral
Carlos Eduardo Polatschek Kopperschmidt	286	HMTR	THERMAL CONTACT CONDUCTANCE ESTIMATION USING A TIME-DEPENDENT METHOD OF FUNDAMENTAL SOLUTIONS	oral
Carlos Eduardo Sanchez Perez	112	FLMR	Effect of Thixotropy in Complex Flows	oral
Carlos Henrique Diedrich	297	HMTR	ANALYSIS OF THE THERMAL PERFORMANCE OF A EARTH-AIR HEAT EXCHANGER (EAHE)	oral
Carlos Henrique Diedrich	499	HVAC	VALIDATION AND NUMERICAL ANALYSIS OF AN EARTH-AIR HEAT EXCHANGER (EAHE) IN STEADY-STATE	poster
Carlos Henrique Lauermann	366	COMB	STUDY OF FLAME ACCELERATION IN A CLOSED DUCT USING EFFECTIVE LEWIS AND ZELDOVICH NUMBERS AS PARAMETERS	oral
Carlos Henrique Melo Souza	439	AERO	Numerical simulation of turbulent compressible flow over a surface bump	oral
Carlos JUNQUEIRA-JUNIOR	184	AERO	External Laminar Boundary Layer Simulations Using a High-Fidelity Wall-Modeling Approach	oral
Carlos Lahoz	577	AERO	A New Safety Analysis Model Applied To A Subsonic Wind Tunnel Operation	oral
Carlos Manuel Romero Luna	615	COMB	THERMAL BEHAVIOR OF COMBUSTION OF MIXTURES OF CRUDE GLYCEROL AND SOYBEAN RESIDUES	poster
Carlos Manuel Romero Luna	620	ENTS	EXPERIMENTAL STUDY OF OXIDATIVE TORREFACTION OF EUCALYPTUS WOOD CHIP USING A MINERAL LAYER OF SILICA SAND	poster
Carlos Manuel Romero Luna	624	ENTS	NUMERICAL MODELING OF RESIDUAL WOODY BIOMASS TORREFACTION	poster
Carlos Manuel Romero Luna	628	ENTS	Experimental study of Ex-situ catalytic pyrolysis of sugarcane bagasse using calcium oxide as catalyst	poster
Carlos Manuel Romero Luna	632	ENTS	IN-SITU catalytic pyrolysis of sugarcane bagasse using calcium carbonate for biofuel production.	poster
Carlos Mauricio Ruiz Diaz	278	FLMR	DETERMINATION OF VOLUMETRIC FRACTION IN ANNULAR THREE-PHASE FLOW USING ARTIFICIAL NEURAL NETWORKS	oral
Carlos Mauricio Ruiz Diaz	324	FLMR	SEVERE SLUGGING IDENTIFICATION USING LONG-SHORT TERM MEMORY NETWORKS	oral
Carlos Pessanha Costa Carvalho	245	OSPE	DISPLACEMENT EFFICIENCY IN WASHOUT ZONES DURING WELL CONSTRUCTION	oral
Carlos Rambo	724	HMTR	Experimental Evaluation on the effect of magnetite in aerogel form on the dielectric breakdown strength and thermal conducti	oral
Carolina Cimarelli Rodrigues	420	FLMR	DETAILED ANALYSIS OF THE DIAMETER INFLUENCE ON AIR-WATER SLUG FLOW CHARACTERISTICS IN UPWARD VERTICAL FLOW	oral
Carolina Palma Naveira Cotta	325	ENTS	Experimental analysis of the heat and mass transfer of a flat sheet module of direct contact membrane distillation (DCMD) for	oral
Carolina Palma Naveira Cotta	470	NMMS	NUMERICAL COMPARISON ON THERMAL PERFORMANCE OF DIFFERENT CROSS SECTIONS OF PIN-FIN HEAT SINKS	oral
Carolina Palma Naveira Cotta	670	NUCE	ASSESSMENT OF DESALINATION VIA MEMBRANE DISTILLATION USING LOW-GRADE WASTE HEAT IN SMALL MODULAR REACTO	oral
Carolina Sacramento Vieira	258	ENTS	SOLAR IRRADIATION MODELING IN VALE SÃO FRANCISCO DA BAHIA USING THE WRF-SOLAR MESOSCALE MODEL	poster
Carolina Sacramento Vieira	418	ENTS	Analysis of the port environment for the export of green hydrogen	poster
Cassio Maia	595	ENTS	THERMODYNAMICS ANALYSIS OF A WATER HEAT TREATMENT UNIT FOR SUGAR-ALCOHOLIC PLANTS	poster
Cássio Schneider	503	FLMR	Experimental Study of Fracture-Filling by a Non-Newtonian Fluid Flow With Particulate Material	oral
Cátia Regina Carvalho Pinto	303	ENTS	Plasma-assisted catalytic route for the production of biodiesel	oral
Celso Morooka	137	OSPE	An experimental method for the study of oscillations of pipes carrying liquid and gas mixtures in slug flow pattern	oral
Celso Peres Fernandes	431	FLMR	Study of the impact of microCT image resizing on numerically estimated porosity and permeability results	oral

CELSO Pupo Pesce	687	OSPE	A theoretical-experimental comparison for a flexible pipe aspirating fluid under VIV	oral
Cesar Addis Valverde Salvador	246	AERO	A TWO-DIMENSIONAL PARABOLIC MODEL FOR COMBUSTION CHAMBER SIMULATION	oral
Cesar Addis Valverde Salvador	296	AERO	Preliminary Investigation of a Pintle Injector for Atomizing Gelled Ethanol and Hydrogen Peroxide	oral
Cesar Adolfo Sotomonte	523	ENTS	Energy study of Photovoltaic-thermal solar-assisted heat pump systems for hot water production in Brazil	oral
Cesar Adolfo Sotomonte	528	ENTS	PROCESS SIMULATION OF THE PALM OIL HYDROTREATING FOR GREEN DIESEL PRODUCTION USING ASPEN PLUS	oral
Cesar Alata	121	FLMR	MECHANISTIC MODELING OF THE SURGING PHENOMENON INITIATION IN CENTRIFUGAL PUMPS OPERATING WITH GAS-LIQUI	poster
Cesar Augusto Basso	363	HMTR	ESTIMATION OF THE TOTAL ABSORPTIVITY OF NON-GRAY SURFACES BOUNDING PARTICIPATING MEDIA	oral
Cesar Celis	89	COMB	PARAMETRIC STUDY OF EMPIRICAL CONSTANTS USED IN SOOT FORMATION MODELS BASED ON INTERPOLATIVE CLOSURE MET	oral
Cesar Celis	104	ENTS	Thermodynamic Modelling of Rotating Detonation Engines Cycles	oral
Cesar Deschamps	335	HVAC	Numerical Analysis Of Volumetric Inefficiencies Of A Small Variable Capacity Reciprocating Compressor	oral
Cesar Pandolfi	78	ENTS	EXPERIMENTAL STUDY ON CONVECTIVE MASS TRANSFER OF HYDROGEN DURING ELECTROLYSIS	oral
Cezar Otaviano Ribeiro Negrao	139	FLMR	NUMERICAL SIMULATION OF THE PARTICLE DISTRIBUTION AND ITS EFFECT ON THE APPARENT VISCOSITY OF NON-COLLOIDAL	oral
Cezar Otaviano Ribeiro Negrao	395	ENTS	MATHEMATICAL MODEL OF TIGHTNESS TESTS WITH THERMAL EFFECTS	poster
Cezar Otaviano Ribeiro Negrao	669	FLMR	Rheological study of hydrate slurries in water-based drilling fluids	oral
Cezar Otaviano Ribeiro Negrao	710	FLMR	EXPERIMENTAL ANALYSIS OF THE START-UP FLOW OF MODEL WAXY OIL IN PIPELINE	oral
Cezar Otaviano Ribeiro Negrao	719	ENTS	Mathematical model of heat dissipation in rolling bearings	oral
Chrislaine do Bomfim Marinho	418	ENTS	Analysis of the port environment for the export of green hydrogen	poster
Christian Hermes	22	HVAC	PERFORMANCE MAPPING OF A VAPOR COMPRESSION SYSTEM FOR DUAL-ZONE VEHICULAR AIR CONDITIONING APPLICATION	oral
Christian Hermes	252	HVAC	An Image-Based Technique for Ice Quality Evaluation	oral
Christian Hermes	256	HVAC	TEMPERATURE CONTROL OF DOMESTIC REFRIGERATORS BASED UPON THE ELECTRIC CURRENT OF THE COMPRESSOR	oral
Christian Hermes	260	HVAC	Steady-state simulation of the air-conditioning system of a hybrid vehicle	oral
Christian Hermes	370	HVAC	CFD ASSESSMENT OF THE THERMO-HYDRAULIC PERFORMANCE CHARACTERISTICS OF TUBE-FIN HEAT EXCHANGERS	oral
Christian Jeremi R. Coronado	422	COMB	Comparative study regarding the use of hydrogen, natural gas and biogas for dual-fuel operation in diesel engines	poster
Christian Jeremi R. Coronado	523	ENTS	Energy study of Photovoltaic-thermal solar-assisted heat pump systems for hot water production in Brazil	oral
Christian Jeremi R. Coronado	528	ENTS	PROCESS SIMULATION OF THE PALM OIL HYDROTREATING FOR GREEN DIESEL PRODUCTION USING ASPEN PLUS	oral
Cícero Escobar	476	HMTR	Geometry evaluation of a lid-driven cavity insert at different positions	oral
Cirilo Seppi Bresolin	612	FLMR	Power-law Fluid Flow Behavior on Porous Media Interface	oral
Clarice de Amorim	234	OSPE	Micro-Scale Mechanisms of Pore-Blocking by Emulsion Droplets	oral
Clarice de Amorim	268	NMMS	New approaches in the study of water-oil flow in a PDMS-based porous media micromodel	oral
Clauber Andre Ferasso	78	ENTS	EXPERIMENTAL STUDY ON CONVECTIVE MASS TRANSFER OF HYDROGEN DURING ELECTROLYSIS	oral
Claudinei Henrique Ferreira Rodrigues	620	ENTS	EXPERIMENTAL STUDY OF OXIDATIVE TORREFACTION OF EUCALYPTUS WOOD CHIP USING A MINERAL LAYER OF SILICA SAND	poster
Claudio Santana	117	COMB	ENERGY AND EXERGY ANALYSIS OF THE USE OF A BIOFUEL IN AN INTERNAL COMBUSTION ENGINE	poster
Claudio Silva	129	ENTS	MINIMIZATION OF ELECTRICITY GENERATION COSTS WITH SMALL CAPACITIES CC-MCI-CRO	oral
Clayton Fernandes de Souza	269	HMTR	Determination Of Thermal Conductivity In Aerogel, With Or Without The Addition Of Graphene, Using The Hot Wire Method	oral
Cleison de Paula	364	ENTS	THERMO-ECONOMIC ANALYSIS OF A CONVENTIONAL REFRIGERATOR HOUSEHOLD USING PCM	poster
Conrado Ermel	729	ENTS	OPERATIONAL COST ASSESSMENT OF AIR-SOURCE HEAT PUMPS INTEGRATED TO THERMAL ENERGY STORAGE IN SOUTHERN B	oral
Cristhian Alvarez Pacheco	278	FLMR	DETERMINATION OF VOLUMETRIC FRACTION IN ANNULAR THREE-PHASE FLOW USING ARTIFICIAL NEURAL NETWORKS	oral
Cristian Douglas Rosa da Silva	567	FLMR	COMPARISON OF RANS, DES AND LES TURBULENCE MODELS TO DETERMINE DISCHARGE COEFFIENTS OF AN ENGINE CYLINDER	oral
Cristian Giliard Zapalai	280	ENTS	Analysis of corrosion and fouling development in a biomass steam generator burning sludge from a slaughterhouse effluent tre	oral
Cristian Mauricio Potosi Rosero	473	FLMR	EXPERIMENTAL AND NUMERICAL ANALYSIS OF EROSION BY PARTICLE-LADEN IMPINGING JETS	oral
Cristian Mauricio Potosi Rosero	538	FLMR	Experimental investigation of bubble turbulent fragmentation in a centrifugal pump	oral
Cristiana Maia	183	ENTS	THERMODYNAMIC MODELING OF A HYBRID SOLAR-ELECTRIC DRYER	oral
Cristiana Maia	186	ENTS	Performance analysis of a solar tower power plant based on the s-CO2 Brayton cycle	oral
Cristiana Maia	201	ENTS	Feasibility assessment of a TES unit of a CSP plant in Brazil	oral
Cristiana Maia	413	ENTS	EFFECT OF THE GEOMETRY ON THE PERFORMANCE OF A SMALL-SCALE SOLAR CHIMNEY	oral
Cristiana Maia	493	ENTS	Development of a solar radiation map using artificial intelligence techniques	oral
Cristiane Mesquita	325	ENTS	Experimental analysis of the heat and mass transfer of a flat sheet module of direct contact membrane distillation (DCMD) for	oral
Cristiano Oliveira	358	FLMR	Investigation of the perforated plates influence on the experiment for the transverse permeability determination of RTM reinfo	oral
Cristiano Tibiriçá	36	NMMS	Record Heat Flux for Flow Boiling with R123 in a single Microchannel	oral
Cristiano Tibiriçá	143	HMTR	Evaluation of the thermal-hydraulic performance of heat exchanger for energy reuse in organic Rankine cycles	oral

Cristiano Tibiriçá	263	FLMR	Evaluation of two-phase flow patterns using chromatic confocal microscopy	oral
Cristiano Tibiriçá	478	ENTS	Evaluation of potential fluids for low temperature Organic Rankine cycle	oral
Cristiano Tibiriçá	575	ENTS	Experimental study and simulation of Organic Rankine Cycle using R123	oral
Cristiano Tibiriçá	723	BIOE	MODELING, OPTIMIZATION AND PROTOTYPING OF A CENTRIFUGAL AIR COMPRESSOR FOR PORTABLE ARTIFICIAL RESPIRATOR	oral
Cristiano Vitorino da Silva	23	COMB	CFD modeling of coal particle reactivity in a drop tube furnace	oral
Daduí Cordeiro Guerrieri	554	ENTS	Efficiency Gain by using a conceptual residential PVT System in the environmental conditions of Rio de Janeiro City.	oral
Daniel Barbedo Vasconcelos Santos	402	FLMR	Axisymmetric Two-phase Finite Element Simulation Using a Front Tracking Method on an Unstructured Mesh	oral
Daniel Botezelli	610	FLMR	A GPU ACCELERATED ALGORITHM FOR SOLVING NAVIER-STOKES EQUATIONS	oral
Daniel Chalhub	564	FLMR	CFD Simulation of Respiratory Droplets and Aerosols in Airflows	oral
Daniel Chalhub	582	FLMR	NUMERICAL SIMULATION OF DROSS TRANSPORT IN HOT DIP GALVANIZING FLOW	poster
Daniel Chalhub	635	AERO	MATHEMATICAL MODEL FOR PROPELLANT GRAIN GEOMETRY REGRESSION	oral
Daniel Chalhub	640	AERO	Evaluating the effect of grain geometry and the particle size of ammonium perchlorate on the combustion of Base Bleed prope	oral
Daniel Chalhub	686	AERO	TEST BENCH FOR MEASURING THE REGRESSION RATE OF SOLID PROPELLANTS	oral
Daniel Dall Onder dos Santos	426	FLMR	Numerical analysis of the rheological properties effects over the re-start flow	oral
Daniel Dall Onder dos Santos	427	FLMR	Numerical investigation of the heat transfer of a viscoplastic flow inside a cavity with embedded cylinders	oral
daniel de souza gomes	434	NUCE	OVERVIEW OF THE PHYSICAL PROPERTIES OF THE MOLTEN SALT REACTOR USING FLIBE	poster
Daniel Dezan	51	FLMR	LOW-COST IDENTIFICATION OF TWO-FACTOR INTERACTIONS THROUGH FRACTIONAL FACTORIAL METHOD APPLIED TO 1D MO	oral
Daniel do Amaral Rodrigues	473	FLMR	EXPERIMENTAL AND NUMERICAL ANALYSIS OF EROSION BY PARTICLE-LADEN IMPINGING JETS	oral
Daniel Godoy Costa	75	HMTR	An initial study on an EV battery prismatic cell thermal behavior	poster
Daniel Godoy Costa	77	ENTS	Electrothermal simulation of electric vehicles battery under driving conditions.	oral
Daniel Ribeiro Dessaune	219	ENTS	Assessment of the Steam Reforming of Ethanol for Hydrogen Production in a Lumped-Particle Packed Bed Reformer Heated by	oral
Daniel Ribeiro Dessaune	222	HMTR	Mathematical Modelling for Solar-Powered Seawater Desalination Process on the Solid Open-Cell Foam Bed Based on Direct C	poster
Daniel Rodrigues Weller	189	OSPE	NUMERICAL ANALYSIS OF WATER-OIL-AIR FLOW IN A HORIZONTAL GRAVITATIONAL SEPARATOR	oral
Daniel Rubano Barretto Turci	118	ENTS	THERMODYNAMIC ANALYSIS OF AN ORGANIC RANKINE CYCLE INTEGRATED WITH LATENT HEAT STORAGE HARNESSING SOLAR	oral
Daniele Dias	126	AERO	Thermal diffusivity and surface mechanical properties of the plasma nitrided Hastelloy X superalloy	poster
Daniele Ferreira	171	HVAC	REFRIGERANT SELECTION FOR A CHILLER AIR CONDITIONING SYSTEM IN BRAZIL	oral
Danieli Sayuri Hakoyama	293	ENTS	STUDY OF THE DISPOSAL OF THE WASTE FROM THE HYDROGEN GENERATION REACTION FROM ALUMINUM OXIDATION IN AN	poster
Danielle R S Guerra	712	ENTS	DETERMINATION OF MINIMUM FLUIDIZATION VELOCITY OF AÇAÍ SEEDS BY EXPERIMENTAL DATA AND NUMERICAL SIMULATIO	poster
Danmer Maza	112	FLMR	Effect of Thixotropy in Complex Flows	oral
Danton José Fortes Villas Boas	439	AERO	Numerical simulation of turbulent compressible flow over a surface bump	oral
DARIO ALVISO	25	COMB	Validation of a Reduced Chemical Kinetic Mechanism for Supercritical Combustion of Gasoline/Ethanol Blends	oral
Davi Antônio dos Santos	610	FLMR	A GPU ACCELERATED ALGORITHM FOR SOLVING NAVIER-STOKES EQUATIONS	oral
Davi Saadi de Almeida Lettieri	35	AERO	MODELING SINGLE JET DIFFUSION FLAME OSCILLATIONS BASED ON UNDER-SAMPLED DATA	oral
Davi Vieira	334	ENTS	STUDY OF A HYBRID CYCLE WITH A HIGH-TEMPERATURE FUEL CELL AND A THERMAL ENGINE	oral
David Rush	450	HMTR	A PRELIMINARY DESIGN OF NUMERICAL EXPERIMENTS STUDY ON THE INFLUENCE OF FACTORS AFFECTING THE FIRE SPREAD IN	oral
Davidson Moreira	166	HMTR	Estimation of the Deposition Rates of Atmospheric Pollutants Using Particle Swarm Optimization	oral
Davidson Moreira	258	ENTS	SOLAR IRRADIATION MODELING IN VALE SÃO FRANCISCO DA BAHIA USING THE WRF-SOLAR MESOSCALE MODEL	poster
Débora Carla Silva Mól	119	HVAC	ANALYSIS OF THE EFFECT OF PRESSURE DROP IN EJECTORS ON THE PERFORMANCE OF VAPOR COMPRESSION REFRIGERATION	oral
Debora Carneiro Moreira	546	NMMS	High-speed imaging of flow boiling in asymmetric Dual-V microchannels with tapered manifold	oral
Deidson Vilhena Santos	435	FLMR	COMPUTATIONAL ANALYSIS OF THE FLOW IN A BACKWARD-FACING STEP WITH AN EXPANSION RATIO OF 1.94	oral
Dener Silva de Almeida	558	FLMR	Numerical simulation of the geometrical parameters influence on uniflow cyclone recirculation zones	poster
Derce de Oliveira Souza Recouvreux	210	ENTS	Performance prediction of microbial fuel cells for acid mine drainage treatment and energy production using least squares fitti	oral
Dhyogo Miléo Taher	14	BIOE	MICROALGAE BIOPOLYMERS: A REVIEW	poster
Dhyogo Miléo Taher	293	ENTS	STUDY OF THE DISPOSAL OF THE WASTE FROM THE HYDROGEN GENERATION REACTION FROM ALUMINUM OXIDATION IN AN	poster
Dhyogo Miléo Taher	302	ENTS	Mathematical modeling of a hydrogen production reactor from aluminum waste	poster
Diego Barboza	572	HMTR	USING INVERSE TECHNIQUES TO SOLVE HEAT TRANSFER PROBLEMS WITH APPLICATION TO A HIGH-SPEED STEEL TOOL DURING	oral
Diego Felipe	665	HVAC	COMPARATIVE ANALYSIS OF ENERGY EFFICIENCY BETWEEN A MIXTURE (50% ISOBUTANE AND 50% PROPANE) IN RELATION TO	oral
Diego Busson de Moraes	470	NMMS	NUMERICAL COMPARISON ON THERMAL PERFORMANCE OF DIFFERENT CROSS SECTIONS OF PIN-FIN HEAT SINKS	oral
Diego Corrêa	56	HMTR	REAL-TIME HEAT FLUX ESTIMATION IN TURNING PROCESS USING INVERSE PROBLEM TECHNIQUE AND INFRARED THERMOGRA	oral
Diego Corrêa	509	BIOE	Microalgae biomass production using swine wastewater for biofuels production and effluent bioremediation	oral

Diego Corrêa	515	BIOE	Biotechnological potential of microalgae in high-value compounds extraction and biofuels production	oral
Diego de Lima Sousa	38	HVAC	Exergoeconomic analysis of a hybrid system of waste incineration and absorption refrigeration	poster
Diego de Lima Sousa	419	ENTS	Optimization and parametric analysis in a recuperative heat exchanger.	poster
Diego de Lima Sousa	498	HVAC	MATHEMATICAL MODELING OF AN AIR CONDITIONER TO SIMULATE THE COOLING OF SPACES	poster
Diego de Lima Sousa	565	ENTS	Modeling, simulation and optimization of the microalgae oil extraction process and production of pure hydrocarbons (green di	poster
Diego Duarte	281	ENTS	DESIGN AND VALIDATION OF AN ETHANOL AUTOTHERMAL REFORMER	oral
Diego Duarte	303	ENTS	Plasma-assisted catalytic route for the production of biodiesel	oral
Diego Ferolla de Abreu	184	AERO	External Laminar Boundary Layer Simulations Using a High-Fidelity Wall-Modeling Approach	oral
Diego Jhovanny Mariños Rosado	66	ENTS	DETERMINATION OF EXERGETIC AND ECONOMIC PARAMETERS OF A NATURAL GAS COMBINED CYCLE THERMOELECTRIC POW	poster
Diego Knupp	543	HMTR	Solution of a two dimensional convection heat transfer problem with quantum computing	oral
Diógenes Barbosa Teles	1	OSPE	Industrial Valves For Thermal Applications at Low Temperatures: Literature Review and Case Study	oral
Diogo Angelo Stradioto	23	COMB	CFD modeling of coal particle reactivity in a drop tube furnace	oral
Diogo B. Pitz	293	ENTS	STUDY OF THE DISPOSAL OF THE WASTE FROM THE HYDROGEN GENERATION REACTION FROM ALUMINUM OXIDATION IN AN	poster
Diogo B. Pitz	302	ENTS	Mathematical modeling of a hydrogen production reactor from aluminum waste	poster
Diogo Elias da Vinha Andrade	669	FLMR	Rheological study of hydrate slurries in water-based drilling fluids	oral
Diogo Elias da Vinha Andrade	710	FLMR	EXPERIMENTAL ANALYSIS OF THE START-UP FLOW OF MODEL WAXY OIL IN PIPELINE	oral
Diogo Elias da Vinha Andrade	718	OSPE	The role of Pressure on the yield stress and dynamic moduli for an Inverted Emulsion Drilling Fluid	oral
Diogo Lôndero Da Silva	260	HVAC	Steady-state simulation of the air-conditioning system of a hybrid vehicle	oral
Diogo Nardelli Siebert	31	FLMR	Kinetic theory based lattice-Boltzmann models for multiphase systems	oral
Diogo Nunes	615	COMB	THERMAL BEHAVIOR OF COMBUSTION OF MIXTURES OF CRUDE GLYCEROL AND SOYBEAN RESIDUES	poster
Domingos Sávio Tavares Mendes Junior	665	HVAC	COMPARATIVE ANALYSIS OF ENERGY EFFICIENCY BETWEEN A MIXTURE (50% ISOBUTANE AND 50% PROPANE) IN RELATION TO	oral
Douglas Bueno	519	FLMR	On the use of CFD to investigate the aeroelastic behavior of an airfoil	poster
Douglas Daniel de Carvalho	10	FLMR	Locomotion of an intruder within granular media	oral
Douglas Machado	724	HMTR	Experimental Evaluation on the effect of magnetite in aerogel form on the dielectric breakdown strength and thermal conducti	oral
Douglas Monteiro Andrade	254	NUCE	ON THE WATER HAMMER IN ELASTO-VISCOPLASTIC PIPES	oral
Douglas Pereira Vasconcellos	297	HMTR	ANALYSIS OF THE THERMAL PERFORMANCE OF A EARTH-AIR HEAT EXCHANGER (EAHE)	oral
Douglas Pereira Vasconcellos	499	HVAC	VALIDATION AND NUMERICAL ANALYSIS OF AN EARTH-AIR HEAT EXCHANGER (EAHE) IN STEADY-STATE	poster
Duban Villadiego	317	ENTS	Experimental analysis of a solar thermal energy storage system based on phase change materials (PCM) for air heating applicat	poster
Eber Dantas de Sá Paiva	471	BIOE	OPTIMIZATION OF THERMAL ABLATION FOR FUNCTIONAL RE-ENTRY ARRHYTHMIAS	oral
Edemar Morsch Filho	651	ENTS	Thermal simulation of a furnace for production of frits and comparison of costs using air and pure oxygen	oral
EDGAR AMARAL SILVEIRA	711	COMB	PREDICTION MODEL OF INTERNAL HEAT GENERATION DURING WOODY BIOMASS DEGRADATION	poster
Edgar Ofuchi	463	FLMR	PIV investigation of the flow field in a centrifugal rotor	oral
Edson Bazzo	277	COMB	Co-combustion of floated sludge from a slaughterhouse wastewater treatment plant with eucalyptus woodchips in a biomass s	oral
Edson Bazzo	280	ENTS	Analysis of corrosion and fouling development in a biomass steam generator burning sludge from a slaughterhouse effluent tre	oral
Edson Soares	53	FLMR	NUMERICAL MODELLING OF MICRO-SCALE LIQUID-LIQUID DISPLACEMENT IN HOMOGENEOUS AND HETEROGENEOUS POROUS	poster
Eduardo Matos Germer	400	FLMR	FLOW PATTERNS IN HORIZONTAL TRANSPORTATION OF BENTONITE PARTICLES	oral
Eduardo Matos Germer	406	OSPE	MACHINE LEARNING MODEL TO DETERMINE THE CURVE-FITTING EQUATION FOR PREDICTION OF THE STARTUP OF NON-BROV	oral
Eduardo Matos Germer	710	FLMR	EXPERIMENTAL ANALYSIS OF THE START-UP FLOW OF MODEL WAXY OIL IN PIPELINE	oral
Eduardo Alves	98	OSPE	Laplace Transform-Based Modeling of Heat Transfer in Producing Wellbores	oral
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Eduardo Burin	277	COMB	Co-combustion of floated sludge from a slaughterhouse wastewater treatment plant with eucalyptus woodchips in a biomass s	oral
Eduardo Burin	280	ENTS	Analysis of corrosion and fouling development in a biomass steam generator burning sludge from a slaughterhouse effluent tre	oral
Eduardo De Carli da Silva	340	AERO	Preliminary design of an aerospace vehicle using airbreathing propulsion system for hypersonic speed	oral
Eduardo Henrique Taube Cunegatto	82	FLMR	Constructal Design and Response Surface modeling of tube arrangement heat exchanger with two degrees of freedom for pseu	oral
Eduardo Nóbrega	571	FLMR	Evaluation of minimum fluidization velocities for various particulates and operating conditions	oral
Eduardo Nunes dos Santos	420	FLMR	DETAILED ANALYSIS OF THE DIAMETER INFLUENCE ON AIR-WATER SLUG FLOW CHARACTERISTICS IN UPWARD VERTICAL FLOW	oral
Eduardo Ramos David	473	FLMR	EXPERIMENTAL AND NUMERICAL ANALYSIS OF EROSION BY PARTICLE-LADEN IMPINGING JETS	oral
eduardo tirone	449	COMB	PERFORMANCE AND KNOCKING ANALYSIS OF A MOTOR GENERATOR GROUP OPERATING IN THE OTTO CYCLE WITH GASOLINE	poster
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Edwin Martin Cardenas Contreras	217	NMMS	NUMERICAL EVALUATION OF THE APPLICATION OF MWCNT NANOFLUIDS IN AUTOMOTIVE FLAT TUBE RADIATORS	oral

Elaine Maria Cardoso	78	ENTS	EXPERIMENTAL STUDY ON CONVECTIVE MASS TRANSFER OF HYDROGEN DURING ELECTROLYSIS	oral
Elaine Maria Cardoso	331	NMMS	EXPERIMENTAL AND NUMERICAL STUDY OF HEAT TRANSFER AND PRESSURE DROP IN MICRO PIN-FIN HEAT SINKS UNDER SING	oral
Élcio Nogueira	99	HMTR	Thermal Efficiency and Second Law of Thermodynamics Applied in a Straight Microchannel Printed Circuit Heat Exchanger	oral
Elena Peñaranda	470	NMMS	NUMERICAL COMPARISON ON THERMAL PERFORMANCE OF DIFFERENT CROSS SECTIONS OF PIN-FIN HEAT SINKS	oral
Elias da Conceição Rodrigues	245	OSPE	DISPLACEMENT EFFICIENCY IN WASHOUT ZONES DURING WELL CONSTRUCTION	oral
Elias Pagnan	404	ENTS	Magnetic Refrigeration Technology Assessment: Design of a Magnetic Wine Cooler	oral
Elias Pagnan	429	HVAC	Enhancing the Frequency of Magnetic Refrigerators Using Dummy Regenerators	oral
Elisa Ishitani Melo	186	ENTS	Performance analysis of a solar tower power plant based on the s-CO2 Brayton cycle	oral
Elisa Ishitani Melo	201	ENTS	Feasibility assessment of a TES unit of a CSP plant in Brazil	oral
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Elisan dos Santos Magalhães	349	HMTR	DETERMINATION OF THERMAL PROPERTIES AT HIGH TEMPERATURES BY THE APPLICATION OF AN OPTIMIZED INVERSE PROBLE	oral
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Elisan dos Santos Magalhães	438	HMTR	THERMAL CONTACT RESISTANCE ESTIMATION USING FUTURE TIME REGULARIZATION	oral
Elisan dos Santos Magalhães	610	FLMR	A GPU ACCELERATED ALGORITHM FOR SOLVING NAVIER-STOKES EQUATIONS	oral
Elisan dos Santos Magalhães	644	HMTR	EXPERIMENTAL STUDY OF FORCED CONVECTION HEAT TRANSFER IN A HEATSINK WITH RECTANGULAR FLAT FINS	oral
Elisangela Leal	117	COMB	ENERGY AND EXERGY ANALYSIS OF THE USE OF A BIOFUEL IN AN INTERNAL COMBUSTION ENGINE	poster
Elisangela Leal	334	ENTS	STUDY OF A HYBRID CYCLE WITH A HIGH-TEMPERATURE FUEL CELL AND A THERMAL ENGINE	oral
Elise Watzko	210	ENTS	Performance prediction of microbial fuel cells for acid mine drainage treatment and energy production using least squares fitti	oral
Elizaldo dos Santos	134	ENTS	NUMERICAL INVESTIGATION OF THE INFLUENCE OF AN AUXILIARY WALL IN THE PERFORMANCE OF A SOLAR CHIMNEY CONNE	oral
Elizaldo dos Santos	709	OSPE	Development of an eddy current break applied in tests of small scale wind turbine	oral
Elóy Gasparin	51	FLMR	LOW-COST IDENTIFICATION OF TWO-FACTOR INTERACTIONS THROUGH FRACTIONAL FACTORIAL METHOD APPLIED TO 1D MO	oral
Emanuel da Silva Diaz Estrada	134	ENTS	NUMERICAL INVESTIGATION OF THE INFLUENCE OF AN AUXILIARY WALL IN THE PERFORMANCE OF A SOLAR CHIMNEY CONNE	oral
Emerson Paulino dos Reis	47	ENTS	ANALYSIS OF ELECTRICITY GENERATION AS A FUNCTION OF ENVIRONMENTAL CONDITIONS FROM THE BOTTOMING CYCLE ENE	oral
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Emilio Paladino	259	FLMR	Identification of transient differential pressure signal features of two-phase in different flow patterns across an orifice plate	oral
Emmanuel Dutra	661	ENTS	Performance analysis of double cascade heat pump for industrial steam generation	oral
Eneida Regina Guimarães Dourado Ribeiro	102	NUCE	NATURAL CONVECTION IN A VERTICAL ANNULUS FILLED WITH POROUS MEDIA WITH INTERNAL HEAT GENERATION	oral
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ENIO BANDARRA FILHO	142	NMMS	THERMOHYDRAULIC PERFORMANCE OF NANOFLUID FLOW WITH SUDDEN GEOMETRY CHANGE	oral
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Eric Dittrich	446	FLMR	EXPERIMENTAL INVESTIGATION OF THE INFLUENCE OF THE WALL TEMPERATURE ON INORGANIC SCALE DEPOSITION IN PIPES	oral
Eric Neugebauer	328	FLMR	Stability Approach for Automotive Fuel Tank System Premature Shutt-Off Prediction	oral
Erick Oliveira	554	ENTS	Efficiency Gain by using a conceptual residential PVT System in the environmental conditions of Rio de Janeiro City.	oral
Erick Cardoso Costa	280	ENTS	Analysis of corrosion and fouling development in a biomass steam generator burning sludge from a slaughterhouse effluent tre	oral
Erick Daniel Rincón Castrillo	502	HVAC	CONDENSING TEMPERATURE OPTIMIZATION OF CASCADE CONDENSER IN A SUBCRITICAL REFRIGERATION SYSTEM WITH R123	poster
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Erick de Moraes Franklin	70	FLMR	Study of dune fields by remote sensing	oral
Erick de Moraes Franklin	85	FLMR	ROLE OF DRAG FORCE IN GRANULAR SIZE SEGREGATION IN SEDIMENT TRANSPORT	oral
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Erick Giovani Sperandio Nascimento	543	HMTR	Solution of a two dimensional convection heat transfer problem with quantum computing	oral
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Érika Barbosa Oliveira	723	BIOE	MODELING, OPTIMIZATION AND PROTOTYPING OF A CENTRIFUGAL AIR COMPRESSOR FOR PORTABLE ARTIFICIAL RESPIRATORS	oral
Erika Aparecida Carvalho	536	OSPE	Experimental study on droplets breakage of oil-water emulsions (O/W) across a variable pressure drop device	oral

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Ernesto Mancilla	463	FLMR	PIV investigation of the flow field in a centrifugal rotor	oral
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Erykson Marconny da Silva Costa	246	AERO	A TWO-DIMENSIONAL PARABOLIC MODEL FOR COMBUSTION CHAMBER SIMULATION	oral
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Estela Carraro	631	BIOE	PARAMETRIC ANALYSIS OF HUMAN BREAST THERMAL RESPONSE AS AN AID FOR EARLY CANCER DIAGNOSIS	oral
Evandro Fernandes Cunha	675	FLMR	An empirical assessment of roll waves evolution in mud-like fluids flowing down steep slopes	oral
Evandro Teixeira	590	ENTS	A REVIEW ON THE USE OF BIOGAS AS A FUEL FOR INTERNAL COMBUSTION ENGINES	oral
Evani Porto	172	HMTR	DEALING WITH STAIRCASE GEOMETRIES IN THE NUMERICAL ANALYSIS OF HEAT TRANSFER FROM CURVED SURFACES BY THE L	oral
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Fabiana de Marqui Mantovan	277	COMB	Co-combustion of floated sludge from a slaughterhouse wastewater treatment plant with eucalyptus woodchips in a biomass s	oral
Fabiana de Marqui Mantovan	280	ENTS	Analysis of corrosion and fouling development in a biomass steam generator burning sludge from a slaughterhouse effluent tre	oral
Fabio Antonio Xavier	280	ENTS	Analysis of corrosion and fouling development in a biomass steam generator burning sludge from a slaughterhouse effluent tre	oral
Fabio Bagni	431	FLMR	Study of the impact of microCT image resizing on numerically estimated porosity and permeability results	oral
Fabio Borges	301	FLMR	A feedback linearization controller using a hybrid control with wavelet and perceptron neural networks applied to a hydraulic	oral
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Fábio Dias	292	COMB	STUDY OF ADVANCE AND DELAY OF PILOT AND MAIN INJECTIONS FOR DIFFERENT ENGINE OPERATING LOADS	poster
Fábio Lisboa	590	ENTS	A REVIEW ON THE USE OF BIOGAS AS A FUEL FOR INTERNAL COMBUSTION ENGINES	oral
Fábio Malacco Moreira	540	FLMR	Evaluation of a Parallel High-Order CFD Solver Developed Using Chapel	oral
Fábio Roberto Vieira	628	ENTS	Experimental study of Ex-situ catalytic pyrolysis of sugarcane bagasse using calcium oxide as catalyst	poster
Fábio Roberto Vieira	632	ENTS	IN-SITU catalytic pyrolysis of sugarcane bagasse using calcium carbonate for biofuel production.	poster
Fabio Saltara	51	FLMR	LOW-COST IDENTIFICATION OF TWO-FACTOR INTERACTIONS THROUGH FRACTIONAL FACTORIAL METHOD APPLIED TO 1D MO	oral
Fabio Silva	362	OSPE	A LSTM Neural Network Approach for the Rock Formation Consolidation Inference of Brazilian Sandstone Reservoirs	oral
Fabio Suguimoto	221	FLMR	IMAGE PROCESSING TO CALCULATE THE LIQUID FRACTION OF A TWO-PHASE KEROSENE-WATER FLOW	poster
Fabrício Pena	250	COMB	Numerical investigation of Fe2O3-Al Thermite reaction using zero and first-order kinetic models.	poster
Fabricio Silva	703	FLMR	BUBBLE-DROP INTERACTIONS IN FLOTATION COLUMNS – THE PROBABILITY OF COMPOUND DROP FORMATION	oral
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FELIPE BALBOM	467	AERO	Combustion analysis of a new concept uniflow two stroke engine for experimental aircraft application	oral
Felipe Bastos de Freitas Rachid	144	FLMR	ANALYTICAL SOLUTION OF ZIELKE'S UNSTEADY FRICTION MODEL FOR ONE-DIMENSIONAL PIPE FLOW IN LIGHT OF THE SECOND	poster
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Humberto Reis	380	HVAC	DISTRIBUTED MATHEMATICAL MODEL AND EXPERIMENTAL VALIDATION FOR A CO2 HEAT PUMP ASSISTED BY SOLAR ENERGY	poster
Iago Gomes Costa	38	HVAC	Exergoeconomic analysis of a hybrid system of waste incineration and absorption refrigeration	poster
Iago Gomes Costa	419	ENTS	Optimization and parametric analysis in a recuperative heat exchanger.	poster
Iago Gomes Costa	498	HVAC	MATHEMATICAL MODELING OF AN AIR CONDITIONER TO SIMULATE THE COOLING OF SPACES	poster
Iago Gomes Costa	565	ENTS	Modeling, simulation and optimization of the microalgae oil extraction process and production of pure hydrocarbons (green die	poster
Iago Lessa de Oliveira	188	BIOE	Numerically assessing the impact of different hyperelastic laws on the mechanical response of intracranial aneurysms walls	oral
Ícaro Kleisson Araújo Lucena	265	HMTR	Effect of Nanoparticle Biodistribution in the Laser Induced Thermal Therapy: a Skin Cancer Embedded with Gold Nanoshells	poster
Igor Marques Alves	186	ENTS	Performance analysis of a solar tower power plant based on the s-CO2 Brayton cycle	oral
Igor Marques Alves	201	ENTS	Feasibility assessment of a TES unit of a CSP plant in Brazil	oral
Igor Tosi	597	ENTS	Impact of COVID-19 on the thermodynamic performance of the human body.	poster
Ihana Aguiar Severo	509	BIOE	Microalgae biomass production using swine wastewater for biofuels production and effluent bioremediation	oral
Ihana Aguiar Severo	515	BIOE	Biotechnological potential of microalgae in high-value compounds extraction and biofuels production	oral
Ihana Aguiar Severo	557	BIOE	MATHEMATICAL MODELING AND SIMULATION OF BATCH REGIME FOR IMMOBILIZED MICROALGAE PHOTOBIOREACTOR FOR E	oral
Ingrid Carneiro	431	FLMR	Study of the impact of microCT image resizing on numerically estimated porosity and permeability results	oral
Ingrid Curcino	325	ENTS	Experimental analysis of the heat and mass transfer of a flat sheet module of direct contact membrane distillation (DCMD) for	oral
Ingrid SilvaEzechiello da Silva	245	OSPE	DISPLACEMENT EFFICIENCY IN WASHOUT ZONES DURING WELL CONSTRUCTION	oral

Isabel Borges da Rocha	126	AERO	Thermal diffusivity and surface mechanical properties of the plasma nitrided Hastelloy X superalloy	poster
Isabel Matos	61	AERO	Measurement of regression rate in hybrid rocket using combustion chamber pressure	poster
Isabela Fernanda Rocha Corrêa	465	HMTR	MATHEMATICAL MODELING AND SIMULATION OF AN INTENSIVE CARE UNIT MECHANICAL VENTILATOR FOR HEATING AND AII	oral
Isabelle Guimarães da Silva	331	NMMS	EXPERIMENTAL AND NUMERICAL STUDY OF HEAT TRANSFER AND PRESSURE DROP IN MICRO PIN-FIN HEAT SINKS UNDER SING	oral
Isabely Lira do Nascimento	284	FLMR	DRAG REDUCTION EXPERIMENTAL ANALYSIS USING MUCILAGE EXTRACTED FROM OPUNTIA COCHENILLIFERA IN ROTATING GE	poster
ivan fernney ibanez aguilar	20	HMTR	A CRITICAL EVALUTAION OF FICK'S VERSUS STEFAN MAXWELL DIFFUSION MODELS TO PREDICT WAX DEPOSITION	oral
ivan fernney ibanez aguilar	130	OSPE	EXPERIMENTAL INVESTIGATION OF THE TEMPORAL AND RADIAL VARIATION OF THE COMPOSITION OF WAX DEPOSITS FORMEI	oral
Ivana de Fátima Braga	721	HMTR	MODELING A DIRECT-EXPANSION SOLAR ASSISTED HEAT PUMP CONDENSER WITH EMPHASIS ON CONVECTIVE HEAT TRANSFEI	poster
Ivi Silva	101	AERO	DESIGN OF A TEST BENCH FOR ELECTRIC PROPULSION SYSTEMS OF UNMANNED AERIAL VEHICLES	poster
Ivonete Ávila	615	COMB	THERMAL BEHAVIOR OF COMBUSTION OF MIXTURES OF CRUDE GLYCEROL AND SOYBEAN RESIDUES	poster
Ivonete Ávila	624	ENTS	NUMERICAL MODELING OF RESIDUAL WOODY BIOMASS TORREFACTION	poster
Ivonete Ávila	632	ENTS	IN-SITU catalytic pyrolysis of sugarcane bagasse using calcium carbonate for biofuel production.	poster
Izabela Henriques	198	ENTS	IMPACT OF COLD HEAT PIPES ON THE NUCLEAR ENERGY CONVERSION SYSTEM MASS FOR SPACE POWER GENERATION	oral
Izabela Henriques	200	ENTS	RADIATOR IMPACT ON STIRLING CYCLE EFFICIENCY FOR SPACE POWER GENERATION	oral
Jacqueline Copetti	78	ENTS	EXPERIMENTAL STUDY ON CONVECTIVE MASS TRANSFER OF HYDROGEN DURING ELECTROLYSIS	oral
Jacqueline Copetti	331	NMMS	EXPERIMENTAL AND NUMERICAL STUDY OF HEAT TRANSFER AND PRESSURE DROP IN MICRO PIN-FIN HEAT SINKS UNDER SING	oral
Jade Spinola Ávila	241	OSPE	H2 Production Offshore with Carbon Capture and Storage	oral
Jader Barbosa	98	OSPE	Laplace Transform-Based Modeling of Heat Transfer in Producing Wellbores	oral
Jader Barbosa	135	HVAC	Evaluation of Machine Learning models to predict the thermal performance of Active Magnetic Regenerators	oral
Jader Barbosa	164	OSPE	Investigation on the Effects of Thermophysical Properties of Drilling Fluids on the Simulation of Thermally Driven APB	oral
Jader Barbosa	404	ENTS	Magnetic Refrigeration Technology Assessment: Design of a Magnetic Wine Cooler	oral
Jader Barbosa	429	HVAC	Enhancing the Frequency of Magnetic Refrigerators Using Dummy Regenerators	oral
Jader Barbosa	487	ENTS	Phase Equilibrium Data for R-290 + POE ISO 32 Mixtures between 283.15 and 343.15 K	oral
Jader Barbosa	724	HMTR	Experimental Evaluation on the effect of magnetite in aerogel form on the dielectric breakdown strength and thermal conducti	oral
Jader Barbosa	725	HMTR	THERMAL-HYDRAULIC CHARACTERIZATION OF A TRIANGULAR MICROCHANNEL REGENERATOR VIA THE SINGLE-BLOW METHO	oral
Jader Barbosa	726	HVAC	Analysis of a compact cooling system containing an enhanced-surface spray heat sink	oral
Jáder Araujo	473	FLMR	EXPERIMENTAL AND NUMERICAL ANALYSIS OF EROSION BY PARTICLE-LADEN IMPINGING JETS	oral
Jael Yankson	376	HMTR	Numerical analysis of Heat and Mass Transfer in Air Dehumidification using Solid Desiccant	poster
Jaguarê Smith Gonzaga Filho	144	FLMR	ANALYTICAL SOLUTION OF ZIELKE'S UNSTEADY FRICTION MODEL FOR ONE-DIMENSIONAL PIPE FLOW IN LIGHT OF THE SECOND	poster
Jaime Gonzalez-Maya	85	FLMR	ROLE OF DRAG FORCE IN GRANULAR SIZE SEGREGATION IN SEDIMENT TRANSPORT	oral
Jaime Lozano	135	HVAC	Evaluation of Machine Learning models to predict the thermal performance of Active Magnetic Regenerators	oral
Jaime Lozano	404	ENTS	Magnetic Refrigeration Technology Assessment: Design of a Magnetic Wine Cooler	oral
Jaime Lozano	429	HVAC	Enhancing the Frequency of Magnetic Refrigerators Using Dummy Regenerators	oral
Jaime Lozano	725	HMTR	THERMAL-HYDRAULIC CHARACTERIZATION OF A TRIANGULAR MICROCHANNEL REGENERATOR VIA THE SINGLE-BLOW METHO	oral
Jairo Ramalho	361	HMTR	Evaluating the performance of Earth-air heat exchangers coupled to a galvanized square cylinder under different installation de	oral
Jaisson Vidal	281	ENTS	DESIGN AND VALIDATION OF AN ETHANOL AUTOTHERMAL REFORMER	oral
Jamer Carneiro	694	NUCE	One-dimensional thermo-hydraulic analysis of single-phase coupled natural circulation loops	oral
Janaína de Oliveira Castro Silva	413	ENTS	EFFECT OF THE GEOMETRY ON THE PERFORMANCE OF A SMALL-SCALE SOLAR CHIMNEY	oral
Javier Antonio Mendoza Corredor	62	COMB	COMBUSTION-TURBULENCE INTERACTION AND ENGINE PERFORMANCE: A CRFD NUMERICAL SIMULATION ON DIRECT-INJECTI	poster
Javier Antonio Mendoza Corredor	79	COMB	HEAD PISTON GEOMETRY OPTIMIZATION: A CRFD STUDY APPLIED TO A LOCOMOTIVE ENGINE	oral
Jean Barbosa	251	COMB	Estimation of Double Tsuji flames dimension based on experimental, analytical and numerical results	oral
Jean Fagundez	562	COMB	CHARACTERIZATION OF COMBUSTION PARAMETERS IN A SPARK-IGNITION ENGINE USING H2 AS FUEL	oral
Jean Fagundez	567	FLMR	COMPARISON OF RANS, DES AND LES TURBULENCE MODELS TO DETERMINE DISCHARGE COEFFIENTS OF AN ENGINE CYLINDER	oral
jeferson Avila Souza	357	HMTR	Numerical modeling of the thermal performance of a hybrid solar inverter	oral
jeferson Avila Souza	358	FLMR	Investigation of the perforated plates influence on the experiment for the transverse permeability determination of RTM reinf	oral
Jeferson Diehl de Oliveira	78	ENTS	EXPERIMENTAL STUDY ON CONVECTIVE MASS TRANSFER OF HYDROGEN DURING ELECTROLYSIS	oral
Jeferson Diehl de Oliveira	331	NMMS	EXPERIMENTAL AND NUMERICAL STUDY OF HEAT TRANSFER AND PRESSURE DROP IN MICRO PIN-FIN HEAT SINKS UNDER SING	oral
Jefferson Rodrigues Ferreira	700	ENTS	INVESTIGATION OF THE BIOENERGETIC POTENTIAL OF SOYBEAN HUSKS FOR USE IN THERMOCHEMICAL PROCESSES BY PHYSICO	oral
Jéssica Florinda Zeitoune	281	ENTS	DESIGN AND VALIDATION OF AN ETHANOL AUTOTHERMAL REFORMER	oral
Jessica Martha Nunes	331	NMMS	EXPERIMENTAL AND NUMERICAL STUDY OF HEAT TRANSFER AND PRESSURE DROP IN MICRO PIN-FIN HEAT SINKS UNDER SING	oral

Jéssica Santos	195	FLMR	Forecast analysis and integrated optimization of wind farm yaw control using numerical simulations	oral
Jéssica Silva	170	ENTS	STUDY ON THE MAXIMUM PRESSURES OF A SOLAR-ASSISTED R744 DIRECT EXPANSION HEAT PUMP FOR WATER HEATING.	poster
Jesús Daniel Fernández	268	NMMS	New approaches in the study of water-oil flow in a PDMS-based porous media micromodel	oral
Jesús Daniel Fernández	274	NMMS	Visualization of two-phase flow in micromodels of vugular porous media	oral
Jesús David Rhenals Julio	317	ENTS	Experimental analysis of a solar thermal energy storage system based on phase change materials (PCM) for air heating applica	poster
Jesús David Rhenals Julio	620	ENTS	EXPERIMENTAL STUDY OF OXIDATIVE TORREFACTION OF EUCALYPTUS WOOD CHIP USING A MINERAL LAYER OF SILICA SAND	poster
Jesús David Rhenals Julio	624	ENTS	NUMERICAL MODELING OF RESIDUAL WOODY BIOMASS TORREFACTION	poster
Jhoan Cubas	469	FLMR	NUMERICAL STUDY OF SUPERCRTICAL CO2 IN A RADIAL CENTRIFUGAL PUMP	oral
Jimes de Lima Percy	436	AERO	Heat conduction in composite with dependence on fiber orientation in a solid rocket motor envelope	oral
Jimmy Alvarez	276	FLMR	TURBULENT FLOW OVER DUNES: EXPERIMENTAL DETERMINATION	oral
Jislane Santana	241	OSPE	H2 Production Offshore with Carbon Capture and Storage	oral
Joao Alves de Lima	325	ENTS	Experimental analysis of the heat and mass transfer of a flat sheet module of direct contact membrane distillation (DCMD) for	oral
Joao Alves de Lima	470	NMMS	NUMERICAL COMPARISON ON THERMAL PERFORMANCE OF DIFFERENT CROSS SECTIONS OF PIN-FIN HEAT SINKS	oral
João Batista Campos Silva	331	NMMS	EXPERIMENTAL AND NUMERICAL STUDY OF HEAT TRANSFER AND PRESSURE DROP IN MICRO PIN-FIN HEAT SINKS UNDER SING	oral
João Batista de Aguiar	253	ENTS	Thermodynamic Model for Compressed Air Motor	oral
João Batista Pereira	675	FLMR	An empirical assessment of roll waves evolution in mud-like fluids flowing down steep slopes	oral
Joao Carneiro	86	FLMR	Linear stability analysis of closure models for the 1D Two-Fluid Model: a focus on the velocity shape factor	oral
João Carvalho	49	FLMR	FROZEN CORE-ANNULAR FLOW MODEL IN THE EFFERVESCENT ATOMIZER	poster
João Carvalho	66	ENTS	DETERMINATION OF EXERGETIC AND ECONOMIC PARAMETERS OF A NATURAL GAS COMBINED CYCLE THERMOELECTRIC POW	poster
João Charles Santos	667	HVAC	DYNAMIC IDENTIFICATION OF A BEVERAGE COOLER SYSTEM WITH PREDICTION OF TEMPERATURE STABILIZATION TIME FOR EI	poster
João Luiz F. Azevedo	30	AERO	A Computational Analysis and Validation of a Laminar-Turbulent Transition Model Including Crossflow Effects	oral
João Luiz F. Azevedo	46	AERO	NUMERICAL INFLUENCE OF VISCOUS FLUX CALCULATION SCHEMES FOR TURBULENT FLOW SIMULATIONS IN AERONAUTICAL A	oral
João Luiz F. Azevedo	88	AERO	Accuracy Analysis of Gradient Reconstruction Techniques for the Discrete Solution of the Gas Dynamics Equations	oral
João Luiz F. Azevedo	184	AERO	External Laminar Boundary Layer Simulations Using a High-Fidelity Wall-Modeling Approach	oral
João Luiz F. Azevedo	192	AERO	Development of Transonic Unsteady Aerodynamic Reduced-Order Models Using System Identification Techniques	oral
João Luiz F. Azevedo	194	AERO	Guidelines on the Usage of System Identification Techniques in Aeroelastic Studies	oral
João Luiz F. Azevedo	484	AERO	AN ASSESSMENT OF GRID REFINEMENT IN THERMOCHEMICAL NON-EQUILIBRIUM HYPERSONIC REENTRY FLOWS	oral
João Luiz F. Azevedo	540	FLMR	Evaluation of a Parallel High-Order CFD Solver Developed Using Chapel	oral
João Luiz F. Azevedo	577	AERO	A New Safety Analysis Model Applied To A Subsonic Wind Tunnel Operation	oral
João Paulo Innocente de Souza	13	FLMR	NUMERICAL SIMULATION OF FLOWS IN CONJUGATED REGIONS USING THE FINITE ELEMENT METHOD TO SOLVE THE DARCY-FO	oral
João Pedro Marques Mendonça Lira	202	FLMR	TRUNCATION ERROR EQUIVALENT BOUNDARY CLOSURE SCHEMES FOR HIGH-ORDER SPATIAL DISCRETIZATION	poster
João Pedro Flórido	400	FLMR	FLOW PATTERNS IN HORIZONTAL TRANSPORTATION OF BENTONITE PARTICLES	oral
João Pinheiro	571	FLMR	Evaluation of minimum fluidization velocities for various particulates and operating conditions	oral
João Victor Loebens Hinterholz	370	HVAC	CFD ASSESSMENT OF THE THERMO-HYDRAULIC PERFORMANCE CHARACTERISTICS OF TUBE-FIN HEAT EXCHANGERS	oral
João Victor Lopes Marchiori	132	FLMR	PORE-SCALE SIMULATION OF CaCO3 SCALING EFFECTS ON LOSS OF PRODUCTION IN OIL RESERVOIRS	poster
João Víctor Ribeiro Moreira	510	COMB	STUDY OF METHODOLOGIES FOR DETERMINING HIGHER AND LOWER HEATING VALUE THROUGH IMMEDIATE ANALYSIS OF EU	poster
João Vitor Siqueira	196	AERO	Three-dimensional CFD investigation of the sidewall compression angle in a scramjet intake	oral
Joao Vitor de Sousa Silva	284	FLMR	DRAG REDUCTION EXPERIMENTAL ANALYSIS USING MUCILAGE EXTRACTED FROM OPUNTIA COCHENILLIFERA IN ROTATING GE	poster
Joaquim Manoel Gonçalves	40	HMTR	Cubic Hermite interpolation function in supercritical heat exchanger modeling	oral
Joaquim Manoel Gonçalves	75	HMTR	An initial study on an EV battery prismatic cell thermal behavior	poster
Joaquim Manoel Gonçalves	77	ENTS	Electrothermal simulation of electric vehicles battery under driving conditions.	oral
Joel Gustavo Teleken	277	COMB	Co-combustion of floated sludge from a slaughterhouse wastewater treatment plant with eucalyptus woodchips in a biomass s	oral
Joel Karp	703	FLMR	BUBBLE-DROP INTERACTIONS IN FLOTATION COLUMNS – THE PROBABILITY OF COMPOUND DROP FORMATION	oral
Johann Eduardo Castro Bolivar	715	FLMR	Experimental study on low-frequency sound propagation in dispersed water-air pipe flow	oral
Jonathan Galdino	718	OSPE	The role of Pressure on the yield stress and dynamic moduli for an Inverted Emulsion Drilling Fluid	oral
Jordan Amaro Gutierrez	49	FLMR	FROZEN CORE-ANNULAR FLOW MODEL IN THE EFFERVESCENT ATOMIZER	poster
Jordan Deambrosio Cussuol	284	FLMR	DRAG REDUCTION EXPERIMENTAL ANALYSIS USING MUCILAGE EXTRACTED FROM OPUNTIA COCHENILLIFERA IN ROTATING GE	poster
Jorge Antonio Avendaño Benavides	179	NMMS	Effect of the temperature on the controlled release of actives in gellan gum-based microcapsules	oral
Jorge Antonio Avendaño Benavides	268	NMMS	New approaches in the study of water-oil flow in a PDMS-based porous media micromodel	oral
Jorge Antonio Avendaño Benavides	274	NMMS	Visualization of two-phase flow in micromodels of vugular porous media	oral

Jorge Antonio Avendaño Benavides	295	FLMR	Effects of SiO2 nanoparticles on the shear and extensional rheology of mechanically degraded partially hydrolyzed polyacrylam	oral
Jorge Chavez	225	FLMR	AERODYNAMIC INVESTIGATION OF A MIRA FASTBACK MODEL GEOMETRY USING CFD TECHNIQUES BASED ON EXPERIMENTAL	poster
Jorge enrique Arrollo Caballero	290	FLMR	Dynamics of horizontal core-annular flow via Particle Image Velocimetry (PIV)	oral
Jorge enrique Arrollo Caballero	300	FLMR	Study of the dynamics of stratified liquid-liquid horizontal pipe flow via particle image velocimetry	oral
Jorge Luiz Biazussi	42	FLMR	Pressure field in a centrifugal pump computed from particle image velocimetry	oral
Jorge Mario Mendoza Fandiño	317	ENTS	Experimental analysis of a solar thermal energy storage system based on phase change materials (PCM) for air heating applica	poster
Jorge Nicolau dos Santos	546	NMMS	High-speed imaging of flow boiling in asymmetric Dual-V microchannels with tapered manifold	oral
Jornandes Silva	219	ENTS	Assessment of the Steam Reforming of Ethanol for Hydrogen Production in a Lumped-Particle Packed Bed Reformer Heated by	oral
Jornandes Silva	222	HMTR	Mathematical Modelling for Solar-Powered Seawater Desalination Process on the Solid Open-Cell Foam Bed Based on Direct Co	poster
José Alberto Reis Parise	218	ENTS	ENERGY AND EXERGY ANALYSIS OF A STEADY STATE THREE STEPS FIRE TUBE BOILER OPERATING WITH NATURAL GAS	oral
José Alexandre de Campos	553	COMB	ANALYSIS OF A RADIANT POROUS BURNER WITH ENERGY RECOVERY SYSTEM ATTACHED USING PREMIXED METHANE AND AIR	oral
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José da Rocha Miranda Pontes	635	AERO	MATHEMATICAL MODEL FOR PROPELLANT GRAIN GEOMETRY REGRESSION	oral
José da Rocha Miranda Pontes	686	AERO	TEST BENCH FOR MEASURING THE REGRESSION RATE OF SOLID PROPELLANTS	oral
José Filipe Trilha de Carvalho	477	FLMR	Validation of a CFD code with LBM approach with experimental data from a Tesla turbine	oral
José Joaquim Conceição Soares Santos	371	ENTS	A comparative analysis of hypotheses in modeling a hybrid compression refrigeration cycle	oral
José Luiz Gasche	188	BIOE	Numerically assessing the impact of different hyperelastic laws on the mechanical response of intracranial aneurysms walls	oral
José Luiz Zanon Zotin	554	ENTS	Efficiency Gain by using a conceptual residential PVT System in the environmental conditions of Rio de Janeiro City.	oral
José Reginaldo Alves de Queiroz Júnior	613	BIOE	AGATA: Infrared image-based CAD system to aid in breast cancer screening	oral
José Ricardo Pelaquim Mendes	249	OSPE	STUDY OF NONAQUEOUS DRILLING FLUIDS AS A BARRIER ELEMENT	poster
José Ricardo Pelaquim Mendes	270	OSPE	GAS HYDRATES IN OFFSHORE HYDROCARBON EXPLOITATION: REVIEW AND CASE ANALYSIS	oral
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JOSÉ VIRIATO COELHO VARGAS	38	HVAC	Exergoeconomic analysis of a hybrid system of waste incineration and absorption refrigeration	poster
JOSÉ VIRIATO COELHO VARGAS	293	ENTS	STUDY OF THE DISPOSAL OF THE WASTE FROM THE HYDROGEN GENERATION REACTION FROM ALUMINUM OXIDATION IN AN	poster
JOSÉ VIRIATO COELHO VARGAS	302	ENTS	Mathematical modeling of a hydrogen production reactor from aluminum waste	poster
JOSÉ VIRIATO COELHO VARGAS	359	ENTS	MATHEMATICAL MODELING AND SIMULATION OF CO2 REMOVAL FROM AN ALKALINE SOLUTION FOR FUEL CELLS APPLICATIOI	oral
JOSÉ VIRIATO COELHO VARGAS	373	ENTS	MODELING AND SIMULATION APPLIED TO THE THERMAL MANAGEMENT OF ELECTRONIC SYSTEMS	poster
JOSÉ VIRIATO COELHO VARGAS	419	ENTS	Optimization and parametric analysis in a recuperative heat exchanger.	poster
JOSÉ VIRIATO COELHO VARGAS	465	HMTR	MATHEMATICAL MODELING AND SIMULATION OF AN INTENSIVE CARE UNIT MECHANICAL VENTILATOR FOR HEATING AND AII	oral
JOSÉ VIRIATO COELHO VARGAS	498	HVAC	MATHEMATICAL MODELING OF AN AIR CONDITIONER TO SIMULATE THE COOLING OF SPACES	poster
JOSÉ VIRIATO COELHO VARGAS	509	BIOE	Microalgae biomass production using swine wastewater for biofuels production and effluent bioremediation	oral
JOSÉ VIRIATO COELHO VARGAS	515	BIOE	Biotechnological potential of microalgae in high-value compounds extraction and biofuels production	oral
JOSÉ VIRIATO COELHO VARGAS	527	BIOE	Simplified mathematical model of thermal response of an abdomen after abdominoplasty	oral
JOSÉ VIRIATO COELHO VARGAS	557	BIOE	MATHEMATICAL MODELING AND SIMULATION OF BATCH REGIME FOR IMMOBILIZED MICROALGAE PHOTOBIOREACTOR FOR E	oral
JOSÉ VIRIATO COELHO VARGAS	565	ENTS	Modeling, simulation and optimization of the microalgae oil extraction process and production of pure hydrocarbons (green di	poster
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José Vitor Pereira	595	ENTS	THERMODYNAMICS ANALYSIS OF A WATER HEAT TREATMENT UNIT FOR SUGAR-ALCOHOLIC PLANTS	poster
José WILTON FERREIRA DO NASCIMENTO	45	OSPE	USE OF TAGGING AND CRITICALITY MATRIX AS PARAMETERS FOR MAINTENANCE OF HYDROMECHANICAL EQUIPMENT OF THE	poster
Joseane Caroline Bernardes	724	HMTR	Experimental Evaluation on the effect of magnetite in aerogel form on the dielectric breakdown strength and thermal conducti	oral
Josiane Weise	64	FLMR	Experimental study of the transient wet gas flow through an orifice plate using high speed camera and high frequency differen	oral
Juan Carlos Assis da Silva	35	AERO	MODELING SINGLE JET DIFFUSION FLAME OSCILLATIONS BASED ON UNDER-SAMPLED DATA	oral
Juan Carlos Assis da Silva	65	FLMR	COMPARATIVE ANALYSIS OF STEADY-STATE GENERATION METHODS APPLIED TO THE FLOW OVER A BACKWARDS-FACING STEI	oral
Juan Carlos Assis da Silva	74	AERO	DATA-BASED MODAL DECOMPOSITION OF OSCILLATORY METHANE JET DIFFUSION FLAMES	oral
Juan Carlos Assis da Silva	202	FLMR	TRUNCATION ERROR EQUIVALENT BOUNDARY CLOSURE SCHEMES FOR HIGH-ORDER SPATIAL DISCRETIZATION	poster
Juan Carlos Assis da Silva	321	FLMR	THERMOMECHANICAL AND RHEOLOGICAL ANALYSIS OF POLYAMIDE 11 UNDER AGEING CONDITIONS IN OFFSHORE FIELDS	oral
Juan Jose Garcia Pabon	523	ENTS	Energy study of Photovoltaic-thermal solar-assisted heat pump systems for hot water production in Brazil	oral
Juan Ordonez	14	BIOE	MICROALGAE BIOPOLYMERS: A REVIEW	poster
Juan Ordonez	293	ENTS	STUDY OF THE DISPOSAL OF THE WASTE FROM THE HYDROGEN GENERATION REACTION FROM ALUMINUM OXIDATION IN AN	poster
Juan Pablo Arteaga Ramos	620	ENTS	EXPERIMENTAL STUDY OF OXIDATIVE TORREFACTION OF EUCALYPTUS WOOD CHIP USING A MINERAL LAYER OF SILICA SAND	poster
Juan Pablo Arteaga Ramos	624	ENTS	NUMERICAL MODELING OF RESIDUAL WOODY BIOMASS TORREFACTION	poster

Juan Pablo de Lima Costa Salazar	340	AERO	Preliminary design of an aerospace vehicle using airbreathing propulsion system for hypersonic speed	oral
Juan Pablo de Lima Costa Salazar	355	AERO	Simulation of the flow field and far-field noise from an UAV propeller	oral
JUAN PABLO FLOREZ	123	HMTR	THERMAL PERFORMANCE OF MINI LOOP HEAT PIPE: INFLUENCE OF COOLING SYSTEMS	oral
Juan Sergio Romero	204	FLMR	Topological Optimization Method Applying to Incompressible Flows Using and Integrating Finite Element Methods (FEM) and F	poster
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Júlia de Oliveira	208	COMB	Parameter Estimation by Bayesian Statistics of Kinetic Models in Ozonation Processes	poster
Juliana Loureiro	446	FLMR	EXPERIMENTAL INVESTIGATION OF THE INFLUENCE OF THE WALL TEMPERATURE ON INORGANIC SCALE DEPOSITION IN PIPES	oral
Juliana Loureiro	514	OSPE	CHARACTERIZATION OF THE ROUGHNESS PATTERN AND REYNOLDS NUMBER EFFECTS ON THE SCALE DEPOSITS IN PIPE FLOWS	oral
Juliana Loureiro	538	FLMR	Experimental investigation of bubble turbulent fragmentation in a centrifugal pump	oral
Juliana Silva Brasil	36	NMMS	Record Heat Flux for Flow Boiling with R123 in a single Microchannel	oral
Juliana Silva Brasil	478	ENTS	Evaluation of potential fluids for low temperature Organic Rankine cycle	oral
Juliana Silva Brasil	575	ENTS	Experimental study and simulation of Organic Rankine Cycle using R123	oral
Juliano Fernandes Dias Taveira de Brito	337	HMTR	Simulation of a cooling processes of wort using a immersion chiller	oral
Juliano Pereira Silveira	562	COMB	CHARACTERIZATION OF COMBUSTION PARAMETERS IN A SPARK-IGNITION ENGINE USING H2 AS FUEL	oral
Julie Brenda Santos da Silva	700	ENTS	INVESTIGATION OF THE BIOENERGETIC POTENTIAL OF SOYBEAN HUSKS FOR USE IN THERMOCHEMICAL PROCESSES BY PHYSICO	oral
Julio Augusto Mendes da Silva	241	OSPE	H2 Production Offshore with Carbon Capture and Storage	oral
Julio Cesar Dainezi de Oliveira	275	ENTS	THERMAL PERFORMANCE AND ECONOMIC EVALUATION OF SMALL OFFICE INTEGRATED WITH PCM IN A SOUTHERN BRAZILIAN	oral
JULIO CESAR SAMPAIO DUTRA	279	HMTR	REAL-TIME INTERNAL HEAT FLUX ESTIMATION ON PULSATING HEAT PIPES USING KALMAN FILTER	oral
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Julio Santos	243	HMTR	Numerical analysis of fluid flow and heat transfer for brewing process	oral
Julio Victor Vieira Martins Chadlvski	355	AERO	Simulation of the flow field and far-field noise from an UAV propeller	oral
Jurandir Itizo Yanagihara	51	FLMR	LOW-COST IDENTIFICATION OF TWO-FACTOR INTERACTIONS THROUGH FRACTIONAL FACTORIAL METHOD APPLIED TO 1D MO	oral
Kamila Queiroz	613	BIOE	AGATA: Infrared image-based CAD system to aid in breast cancer screening	oral
KAMILA CARDOSO	338	AERO	Study of the catalyst on the regression rate of HTPB-based fuel grain for hybrid rocket propulsion using a 2D slab burner	poster
karl peter burr	328	FLMR	Stability Approach for Automotive Fuel Tank System Premature Shutt-Off Prediction	oral
Karoline da Costa Rocha Fernandes Ferreira	125	COMB	ENERGY USE AND THERMOCHEMICAL CONVERSION OF OILY WASTE THROUGH AIR/STEAM GASIFICATION	oral
Kauê Melenek	509	BIOE	Microalgae biomass production using swine wastewater for biofuels production and effluent bioremediation	oral
Kauê Melenek	515	BIOE	Biotechnological potential of microalgae in high-value compounds extraction and biofuels production	oral
Kelvin Barbosa	284	FLMR	DRAG REDUCTION EXPERIMENTAL ANALYSIS USING MUCILAGE EXTRACTED FROM OPUNTIA COCHENILLIFERA IN ROTATING GE	poster
Kelvin Guessi Domiciano	122	HMTR	INFLUENCE OF GROOVES ON THE THERMAL BEHAVIOR OF MINI PULSATING HEAT PIPES	oral
Kelvin Guessi Domiciano	123	HMTR	THERMAL PERFORMANCE OF MINI LOOP HEAT PIPE: INFLUENCE OF COOLING SYSTEMS	oral
Kesiany Máxima de Souza	581	COMB	Estimation of the activation energy as a function of the extent of conversion in a thermite system by various isoconversional m	oral
Kleber Marques Lisbôa	118	ENTS	THERMODYNAMIC ANALYSIS OF AN ORGANIC RANKINE CYCLE INTEGRATED WITH LATENT HEAT STORAGE HARNESSING SOLAR	oral
Kleber Marques Lisbôa	670	NUCE	ASSESSMENT OF DESALINATION VIA MEMBRANE DISTILLATION USING LOW-GRADE WASTE HEAT IN SMALL MODULAR REACTO	oral
L. Enrique Ortiz-Vidal	625	FLMR	Theoretical analysis of free-surface flows in rectangular annular cross-section	oral
Lara Schimith Berghe	244	OSPE	LIQUID-LIQUID DISPLACEMENT FLOWS IN A RADIAL HELE-SHAW CELL	oral
Lara Werncke Vieira	539	ENTS	Power Plant Performance Assessment - Physical and Machine Learning Integration Through Multifidelity Modeling	oral
Lara Werncke Vieira	548	ENTS	Artificial Neural Networks to predict a coal-fired power plant efficiency: comparative study	oral
Larissa Carla Ribeiro de Araújo	563	ENTS	Thermodynamic study through EES of the use of biogas in power systems in sugar and ethanol plants	poster
Larissa Krambeck	122	HMTR	INFLUENCE OF GROOVES ON THE THERMAL BEHAVIOR OF MINI PULSATING HEAT PIPES	oral
Larissa Krambeck	123	HMTR	THERMAL PERFORMANCE OF MINI LOOP HEAT PIPE: INFLUENCE OF COOLING SYSTEMS	oral
Lauber Martins	14	BIOE	MICROALGAE BIOPOLYMERS: A REVIEW	poster
Lauber Martins	38	HVAC	Exergoeconomic analysis of a hybrid system of waste incineration and absorption refrigeration	poster
Lauber Martins	293	ENTS	STUDY OF THE DISPOSAL OF THE WASTE FROM THE HYDROGEN GENERATION REACTION FROM ALUMINUM OXIDATION IN AN	poster
Lauber Martins	302	ENTS	Mathematical modeling of a hydrogen production reactor from aluminum waste	poster
Lauber Martins	359	ENTS	MATHEMATICAL MODELING AND SIMULATION OF CO2 REMOVAL FROM AN ALKALINE SOLUTION FOR FUEL CELLS APPLICATION	oral
Lauber Martins	465	HMTR	MATHEMATICAL MODELING AND SIMULATION OF AN INTENSIVE CARE UNIT MECHANICAL VENTILATOR FOR HEATING AND AII	oral
Lauber Martins	527	BIOE	Simplified mathematical model of thermal response of an abdomen after abdominoplasty	oral

Lauber Martins	557	BIOE	MATHEMATICAL MODELING AND SIMULATION OF BATCH REGIME FOR IMMOBILIZED MICROALGAE PHOTOBIOREACTOR FOR E	oral
Lauber Martins	631	BIOE	PARAMETRIC ANALYSIS OF HUMAN BREAST THERMAL RESPONSE AS AN AID FOR EARLY CANCER DIAGNOSIS	oral
Laura Carolina Monteiro dos Santos Rodrigues	340	AERO	Preliminary design of an aerospace vehicle using airbreathing propulsion system for hypersonic speed	oral
Laura Tatiana Meneses Barrera	57	COMB	C1-C4 ALCOHOLS FOR THE TRANSPORTATION INDUSTRY: DETAILED KINETICS MODELS ASSESSMENT IN TERMS OF LAMINAR FL	oral
Laura Tatiana Meneses Barrera	146	COMB	TUNING DETAILED KINETICS MODELS FOR LAMINAR FLAME SPEED AND NOX PREDICTIONS: A SYSTEMATIC METHODOLOGY US	poster
Laura Tatiana Meneses Barrera	242	COMB	REDUCTION TECHNIQUES FOR DETAILED KINETICS MODELS: A NUMERICAL ASSESSMENT FOCUSED ON TRANSPORTATION FUEL	poster
Laura Tatiana Meneses Barrera	255	COMB	(BIO)FUEL SURROGATES FOR THE TRANSPORTATION INDUSTRY: A LITERATURE REVIEW INCLUDING DETAILED KINETICS MODEL	oral
LAURILIO SILVA JUNIOR	635	AERO	MATHEMATICAL MODEL FOR PROPELLANT GRAIN GEOMETRY REGRESSION	oral
LAURILIO SILVA JUNIOR	640	AERO	Evaluating the effect of grain geometry and the particle size of ammonium perchlorate on the combustion of Base Bleed prope	oral
LAURILIO SILVA JUNIOR	686	AERO	TEST BENCH FOR MEASURING THE REGRESSION RATE OF SOLID PROPELLANTS	oral
Layse Barbosa Pôrto	70	FLMR	Study of dune fields by remote sensing	oral
Leandro Alcoforado Sphaier	125	COMB	ENERGY USE AND THERMOCHEMICAL CONVERSION OF OILY WASTE THROUGH AIR/STEAM GASIFICATION	oral
Leandro Alcoforado Sphaier	243	HMTR	Numerical analysis of fluid flow and heat transfer for brewing process	oral
Leandro Alcoforado Sphaier	376	HMTR	Numerical analysis of Heat and Mass Transfer in Air Dehumidification using Solid Desiccant	poster
Leandro Carrasco	709	OSPE	Development of an eddy current break applied in tests of small scale wind turbine	oral
Leandro Macedo	468	OSPE	Detection of Calcium Carbonate Precipitation by Sensors Based on Fiber Optic Bragg Networks	poster
Leandro Rogel Silva	280	ENTS	Analysis of corrosion and fouling development in a biomass steam generator burning sludge from a slaughterhouse effluent tre	oral
Leandro Salviano	51	FLMR	LOW-COST IDENTIFICATION OF TWO-FACTOR INTERACTIONS THROUGH FRACTIONAL FACTORIAL METHOD APPLIED TO 1D MO	oral
Leandro Salviano	136	ENTS	Sensitivity analysis of small-scale vertical-axis wind turbines: improving the design space using Bézier-GAN	oral
Leandro Salviano	157	FLMR	Analysis of the impacts caused by the insertion of leading-edge tubercles over a Francis turbine runner	oral
Leib Neubarth	635	AERO	MATHEMATICAL MODEL FOR PROPELLANT GRAIN GEOMETRY REGRESSION	oral
Leib Neubarth	640	AERO	Evaluating the effect of grain geometry and the particle size of ammonium perchlorate on the combustion of Base Bleed prope	oral
Leib Neubarth	686	AERO	TEST BENCH FOR MEASURING THE REGRESSION RATE OF SOLID PROPELLANTS	oral
Leila Ribeiro dos Santos	49	FLMR	FROZEN CORE-ANNULAR FLOW MODEL IN THE EFFERVESCENT ATOMIZER	poster
Leila Ribeiro dos Santos	190	COMB	Study of the influence of injection timing and direction in the performance of a spark ignition engine fueled with gasoline-etha	poster
Leilane Nogueira	712	ENTS	DETERMINATION OF MINIMUM FLUIDIZATION VELOCITY OF AÇAÍ SEEDS BY EXPERIMENTAL DATA AND NUMERICAL SIMULATIO	poster
Leonardo Caron	260	HVAC	Steady-state simulation of the air-conditioning system of a hybrid vehicle	oral
Leonardo Cavalheiro Martinez	374	ENTS	Parametrical and analytical analysis of biogas production and its use as an alternative fuel in a gas turbine cycle	poster
Leonardo Henrique Gouvêa	8	AERO	Preliminary experimental evaluation of the burning of paraffin-based fuels supported in polymeric matrices applied to hybrid r	oral
Leonardo Henrique Gouvêa	61	AERO	Measurement of regression rate in hybrid rocket using combustion chamber pressure	poster
Leonardo Henrique Gouvêa	338	AERO	Study of the catalyst on the regression rate of HTPB-based fuel grain for hybrid rocket propulsion using a 2D slab burner	poster
Leonardo Monteiro de Carvalho	369	HVAC	ENC-2022-0369 TRANSIENT ASSESSMENT OF LOW-GWP FLUIDS IN A TWO-STAGE REFRIGERATION SYSTEM	oral
Leonardo Oliveira	527	BIOE	Simplified mathematical model of thermal response of an abdomen after abdominoplasty	oral
Leonardo Santos de Brito Alves	35	AERO	MODELING SINGLE JET DIFFUSION FLAME OSCILLATIONS BASED ON UNDER-SAMPLED DATA	oral
Leonardo Santos de Brito Alves	65	FLMR	COMPARATIVE ANALYSIS OF STEADY-STATE GENERATION METHODS APPLIED TO THE FLOW OVER A BACKWARDS-FACING STE	oral
Leonardo Santos de Brito Alves	74	AERO	DATA-BASED MODAL DECOMPOSITION OF OSCILLATORY METHANE JET DIFFUSION FLAMES	oral
Leonardo Santos de Brito Alves	202	FLMR	TRUNCATION ERROR EQUIVALENT BOUNDARY CLOSURE SCHEMES FOR HIGH-ORDER SPATIAL DISCRETIZATION	poster
Leonardo Silva Oliveira	129	ENTS	MINIMIZATION OF ELECTRICITY GENERATION COSTS WITH SMALL CAPACITIES CC-MCI-CRO	oral
Leonardo Tavares	563	ENTS	Thermodynamic study through EES of the use of biogas in power systems in sugar and ethanol plants	poster
Leonel R Cancino	57	COMB	C1-C4 ALCOHOLS FOR THE TRANSPORTATION INDUSTRY: DETAILED KINETICS MODELS ASSESSMENT IN TERMS OF LAMINAR FL	oral
Leonel R Cancino	62	COMB	COMBUSTION-TURBULENCE INTERACTION AND ENGINE PERFORMANCE: A CRFD NUMERICAL SIMULATION ON DIRECT-INJECT	poster
Leonel R Cancino	79	COMB	HEAD PISTON GEOMETRY OPTIMIZATION: A CRFD STUDY APPLIED TO A LOCOMOTIVE ENGINE	oral
Leonel R Cancino	146	COMB	TUNING DETAILED KINETICS MODELS FOR LAMINAR FLAME SPEED AND NOX PREDICTIONS: A SYSTEMATIC METHODOLOGY USI	poster
Leonel R Cancino	225	FLMR	AERODYNAMIC INVESTIGATION OF A MIRA FASTBACK MODEL GEOMETRY USING CFD TECHNIQUES BASED ON EXPERIMENTAL	poster
Leonel R Cancino	242	COMB	REDUCTION TECHNIQUES FOR DETAILED KINETICS MODELS: A NUMERICAL ASSESSMENT FOCUSED ON TRANSPORTATION FUEL	poster
Leonel R Cancino	255	COMB	(BIO)FUEL SURROGATES FOR THE TRANSPORTATION INDUSTRY: A LITERATURE REVIEW INCLUDING DETAILED KINETICS MODEL	oral
Leslye Soares Ferreira	550	ENTS	MAP OF COMPLEMENTARITY OF SOLAR-WIND ENERGY IN THE STATE OF RIO GRANDE DO NORTE	poster
Letícia Jenisch Rodrigues	21	ENTS	Behavior Analysis of Photovoltaic Modules Integrated to a Building in Different Brazilian Regions	poster
Letícia Jenisch Rodrigues	97	ENTS	Hybrid photovoltaic-wind power plants: Brazilian legislation and state of the art	poster
Letieri Ávila	301	FLMR	A feedback linearization controller using a hybrid control with wavelet and perceptron neural networks applied to a hydraulic	oral

Letieri Ávila	709	OSPE	Development of an eddy current break applied in tests of small scale wind turbine	oral
Lia Pimont	338	AERO	Study of the catalyst on the regression rate of HTPB-based fuel grain for hybrid rocket propulsion using a 2D slab burner	poster
Liércio Isoldi	134	ENTS	NUMERICAL INVESTIGATION OF THE INFLUENCE OF AN AUXILIARY WALL IN THE PERFORMANCE OF A SOLAR CHIMNEY CONNE	oral
Lilian Alves Monte Soares	554	ENTS	Efficiency Gain by using a conceptual residential PVT System in the environmental conditions of Rio de Janeiro City.	oral
Lirio Schaeffer	78	ENTS	EXPERIMENTAL STUDY ON CONVECTIVE MASS TRANSFER OF HYDROGEN DURING ELECTROLYSIS	oral
Lorena Guimarães	661	ENTS	Performance analysis of double cascade heat pump for industrial steam generation	oral
Lorena Moraes	245	OSPE	DISPLACEMENT EFFICIENCY IN WASHOUT ZONES DURING WELL CONSTRUCTION	oral
Luben Cabezas Gómez	215	NMMS	NUMERICAL SIMULATION OF THE THERMOHYDRAULIC PERFORMANCE OF MWCNT/EG-WATER NANOFLUIDS IN AN AUTOMOT	oral
Luben Cabezas Gómez	478	ENTS	Evaluation of potential fluids for low temperature Organic Rankine cycle	oral
Luben Cabezas Gómez	575	ENTS	Experimental study and simulation of Organic Rankine Cycle using R123	oral
Luca Pagliarini	279	HMTR	REAL-TIME INTERNAL HEAT FLUX ESTIMATION ON PULSATING HEAT PIPES USING KALMAN FILTER	oral
Lucas Cunha de Azevedo	45	OSPE	USE OF TAGGING AND CRITICALITY MATRIX AS PARAMETERS FOR MAINTENANCE OF HYDROMECHANICAL EQUIPMENT OF THE	poster
Lucas Güenter Fernandes	728	COMB	EXPERIMENTAL STUDY OF THE GAS ATMOSPHERE EFFECTS ON A STOICHIOMETRIC PREMIXED FLAME	poster
Lucas Jardim	543	HMTR	Solution of a two dimensional convection heat transfer problem with quantum computing	oral
Lucas Militão	724	HMTR	Experimental Evaluation on the effect of magnetite in aerogel form on the dielectric breakdown strength and thermal conducti	oral
Lucas Pereira Netto	564	FLMR	CFD Simulation of Respiratory Droplets and Aerosols in Airflows	oral
Lucas Rhuan Prudente	117	COMB	ENERGY AND EXERGY ANALYSIS OF THE USE OF A BIOFUEL IN AN INTERNAL COMBUSTION ENGINE	poster
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Luciane Calabria	78	ENTS	EXPERIMENTAL STUDY ON CONVECTIVE MASS TRANSFER OF HYDROGEN DURING ELECTROLYSIS	oral
Luciano Amaury dos Santos	40	HMTR	Cubic Hermite interpolation function in supercritical heat exchanger modeling	oral
Luciano Amaury dos Santos	75	HMTR	An initial study on an EV battery prismatic cell thermal behavior	poster
Luciano Amaury dos Santos	77	ENTS	Electrothermal simulation of electric vehicles battery under driving conditions.	oral
Luciano Moreira	7	ENTS	THERMOECONOMIC EVALUATION OF A HIGH-PERFORMANCE POLYGENERATION SYSTEM	poster
Luckyan Quintino	225	FLMR	AERODYNAMIC INVESTIGATION OF A MIRA FASTBACK MODEL GEOMETRY USING CFD TECHNIQUES BASED ON EXPERIMENTAL	poster
Luila Saidler	180	OSPE	BIBLIOMETRIC ANALYSIS, SYSTEMATIC REVIEW AND EXPERIMENTAL STUDY OF SURFACE AND MATERIAL EFFECT IN CALCIUM	poster
Luila Saidler	468	OSPE	Detection of Calcium Carbonate Precipitation by Sensors Based on Fiber Optic Bragg Networks	poster
Luis Arturo Gómez Malagón	661	ENTS	Performance analysis of double cascade heat pump for industrial steam generation	oral
Luis Evelio Garcia-Acevedo	508	ENTS	ASSESSMENT OF EXERGETIC EFFICIENCY OF BRAZILIAN METROPOLES EVALUATING THE INTRODUCTION OF ELECTROMOBILITY	oral
Luis Felipe Acuna Alegria	299	FLMR	EXPERIMENTAL STUDY OF FLUID-STRUCTURE INTERACTION OF A MODEL OF DOWN-HOLE SAFETY VALVE SUBJECTED TO SLUG F	oral
Luis Felipe Cattelan	429	HVAC	Enhancing the Frequency of Magnetic Refrigerators Using Dummy Regenerators	oral
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Luis Fernando Alzuguir Azevedo	130	OSPE	EXPERIMENTAL INVESTIGATION OF THE TEMPORAL AND RADIAL VARIATION OF THE COMPOSITION OF WAX DEPOSITS FORMED	oral
Luis Fernando Alzuguir Azevedo	213	OSPE	INTERFACE TEMPERATURE MEASURMENTS AND CRYSTAL VISUALIZATION DURING WAX DEPOSIT FORMATION ON COLD SURFA	oral
Luís Fernando Figueira da Silva	89	COMB	PARAMETRIC STUDY OF EMPIRICAL CONSTANTS USED IN SOOT FORMATION MODELS BASED ON INTERPOLATIVE CLOSURE MET	oral
Luis Fernando Junior Saldaña Bernuy	240	ENTS	NUMERICAL CHARACTERIZATION OF THE GEOMETRY AT THE ENTRANCE TO THE TANK IN THE FORMATION AND DEVELOPMENT	oral
Luis Filipe de Almeida Roque	422	COMB	Comparative study regarding the use of hydrogen, natural gas and biogas for dual-fuel operation in diesel engines	poster
Luís Gustavo Medeiros De Luca	164	OSPE	Investigation on the Effects of Thermophysical Properties of Drilling Fluids on the Simulation of Thermally Driven APB	oral
Luís Gustavo Medeiros De Luca	487	ENTS	Phase Equilibrium Data for R-290 + POE ISO 32 Mixtures between 283.15 and 343.15 K	oral
Luis Gustavo Doblins Kramer	509	BIOE	Microalgae biomass production using swine wastewater for biofuels production and effluent bioremediation	oral
LUIS HUMBERTO QUITIAN ARDILA	400	FLMR	FLOW PATTERNS IN HORIZONTAL TRANSPORTATION OF BENTONITE PARTICLES	oral
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Luiz Ferrão	338	AERO	Study of the catalyst on the regression rate of HTPB-based fuel grain for hybrid rocket propulsion using a 2D slab burner	poster
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Luiz Antonio Alcântara Pereira	27	FLMR	USE OF A FAST MULTIPOLE METHOD TO REDUCE THE COMPUTATIONAL COSTS OF AIRCRAFT WAKES SIMULATIONS	poster

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Luiz Machado	170	ENTS	STUDY ON THE MAXIMUM PRESSURES OF A SOLAR-ASSISTED R744 DIRECT EXPANSION HEAT PUMP FOR WATER HEATING.	poster
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Luiz Nunes	74	AERO	DATA-BASED MODAL DECOMPOSITION OF OSCILLATORY METHANE JET DIFFUSION FLAMES	oral
Luiz Paulo Borges Miranda	426	FLMR	Numerical analysis of the rheological properties effects over the re-start flow	oral
Luiz Paulo Borges Miranda	427	FLMR	Numerical investigation of the heat transfer of a viscoplastic flow inside a cavity with embedded cylinders	oral
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Maíra Andrade	418	ENTS	Analysis of the port environment for the export of green hydrogen	poster
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Marcio CARVALHO	112	FLMR	Effect of Thixotropy in Complex Flows	oral
Marcio CARVALHO	179	NMMS	Effect of the temperature on the controlled release of actives in gellan gum-based microcapsules	oral
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Marcley Pereira	449	COMB	PERFORMANCE AND KNOCKING ANALYSIS OF A MOTOR GENERATOR GROUP OPERATING IN THE OTTO CYCLE WITH GASOLINE	poster
Marco Antônio Cerutti	135	HVAC	Evaluation of Machine Learning models to predict the thermal performance of Active Magnetic Regenerators	oral
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Marcos Araújo Lima Parreiras	129	ENTS	MINIMIZATION OF ELECTRICITY GENERATION COSTS WITH SMALL CAPACITIES CC-MCI-CRO	oral
MARCOS BRIOSCHI	527	BIOE	Simplified mathematical model of thermal response of an abdomen after abdominoplasty	oral
Marcos Curi	554	ENTS	Efficiency Gain by using a conceptual residential PVT System in the environmental conditions of Rio de Janeiro City.	oral
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Marcos Duran Pereira	38	HVAC	Exergoeconomic analysis of a hybrid system of waste incineration and absorption refrigeration	poster
Marcos Gabriel Caceres Romero	560	FLMR	Dissolved Oxygen Hydrodynamic Simulation using coupling wing-bottom Shallow Water and Contaminant Transport Formulati	oral
Marcos Hiroshi Takahama	719	ENTS	Mathematical model of heat dissipation in rolling bearings	oral
Marcos Lourenço	221	FLMR	IMAGE PROCESSING TO CALCULATE THE LIQUID FRACTION OF A TWO-PHASE KEROSENE-WATER FLOW	poster
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Maria dos Reis Santos Borges	485	ENTS	Life cycle assessment of biogas production from dairy cow manure on a Brazilian farm	oral
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Maria Laura Martins-Costa	288	HMTR	NUMERICAL APPROXIMATION FOR POROUS PARALLEL FINS WITH RADIATION	oral
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MARLON MAURICIO HERNANDEZ CELY	300	FLMR	Study of the dynamics of stratified liquid-liquid horizontal pipe flow via particle image velocimetry	oral
MARLON MAURICIO HERNANDEZ CELY	324	FLMR	SEVERE SLUGGING IDENTIFICATION USING LONG-SHORT TERM MEMORY NETWORKS	oral
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Maurício Ferrapontoff Lemos	686	AERO	TEST BENCH FOR MEASURING THE REGRESSION RATE OF SOLID PROPELLANTS	oral
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Rafael Fillus Chuproski	126	AERO	Thermal diffusivity and surface mechanical properties of the plasma nitrided Hastelloy X superalloy	poster
Rafael Franklin Lazaro de Cerqueira	42	FLMR	Pressure field in a centrifugal pump computed from particle image velocimetry	oral
Rafael Franklin Lazaro de Cerqueira	64	FLMR	Experimental study of the transient wet gas flow through an orifice plate using high speed camera and high frequency differen	oral
Rafael Meier	593	COMB	Numerical Study of Triple Flames in Partially Premixed Methane and Hydrogen-Air Mixtures	oral
Rafael Peralta Moreira	55	FLMR	Modeling of complex displacement flows involving foamed fluids in annular geometries for well cementing applications	oral
Rafael Pinho Furtado	238	ENTS	THERMODYNAMIC ANALYSIS OF THE INFLUENCE OF CARBON DIOXIDE AS DILUENT IN OXY-FUEL COMBUSTION GAS TURBINES	oral
Rafael Pinho Furtado	323	ENTS	Exergetic analysis of a supercritical cogeneration system proposed for a sugarcane mill producing sugar and ethanol	oral
rafael pinto	640	AERO	Evaluating the effect of grain geometry and the particle size of ammonium perchlorate on the combustion of Base Bleed prope	oral
Rafael Quines	154	COMB	Study of Flame Propagation Velocity Inside a Closed Duct and Validation with Flame Propagation Theory	oral
Rafael Quines	366	COMB	STUDY OF FLAME ACCELERATION IN A CLOSED DUCT USING EFFECTIVE LEWIS AND ZELDOVICH NUMBERS AS PARAMETERS	oral
Rafael Rank Storm	275	ENTS	THERMAL PERFORMANCE AND ECONOMIC EVALUATION OF SMALL OFFICE INTEGRATED WITH PCM IN A SOUTHERN BRAZILIAN	oral
Rafael San Martin Moreira	470	NMMS	NUMERICAL COMPARISON ON THERMAL PERFORMANCE OF DIFFERENT CROSS SECTIONS OF PIN-FIN HEAT SINKS	oral
Rafael Silva Ribeiro Gonçalves	14	BIOE	MICROALGAE BIOPOLYMERS: A REVIEW	poster
Rafael Silva Ribeiro Gonçalves	293	ENTS	STUDY OF THE DISPOSAL OF THE WASTE FROM THE HYDROGEN GENERATION REACTION FROM ALUMINUM OXIDATION IN AN	poster
Rafael Silva Ribeiro Gonçalves	302	ENTS	Mathematical modeling of a hydrogen production reactor from aluminum waste	poster
Rafael Silva Ribeiro Gonçalves	359	ENTS	MATHEMATICAL MODELING AND SIMULATION OF CO2 REMOVAL FROM AN ALKALINE SOLUTION FOR FUEL CELLS APPLICATION	oral
Rafael Silva Ribeiro Gonçalves	557	BIOE	MATHEMATICAL MODELING AND SIMULATION OF BATCH REGIME FOR IMMOBILIZED MICROALGAE PHOTOBIOREACTOR FOR E	oral
Rafael Trintinaglia Perin	728	COMB	EXPERIMENTAL STUDY OF THE GAS ATMOSPHERE EFFECTS ON A STOICHIOMETRIC PREMIXED FLAME	poster
Rafael Valladares de Almeida	234	OSPE	Micro-Scale Mechanisms of Pore-Blocking by Emulsion Droplets	oral
Rafaela Mirabile	14	BIOE	MICROALGAE BIOPOLYMERS: A REVIEW	poster
Rafaela Vilas Boas Pedrassani	3	NUCE	Dynamic analysis of pressurization of containment building of a pressurized water reactor with phase change materials	oral
Rafaella Magliano Balbi de Faria	244	OSPE	LIQUID-LIQUID DISPLACEMENT FLOWS IN A RADIAL HELE-SHAW CELL	oral
Ralney Faria	119	HVAC	ANALYSIS OF THE EFFECT OF PRESSURE DROP IN EJECTORS ON THE PERFORMANCE OF VAPOR COMPRESSION REFRIGERATION	oral
Ralney Faria	364	ENTS	THERMO-ECONOMIC ANALYSIS OF A CONVENTIONAL REFRIGERATOR HOUSEHOLD USING PCM	poster
Ralney Faria	721	HMTR	MODELING A DIRECT-EXPANSION SOLAR ASSISTED HEAT PUMP CONDENSER WITH EMPHASIS ON CONVECTIVE HEAT TRANSFE	poster
Ramiro Bertolina	453	FLMR	A numerical simulation study on a H-Darrieus wind turbine	oral
Ramon Eduardo Pereira Silva	322	ENTS	ENERGETIC AND EXERGETIC ANÁLISYS SOFTWARE IN PYTHON: DEVELOPMENT, VALIDATION AND APPLICATION	poster
Ranena V. Ponce F.	234	OSPE	Micro-Scale Mechanisms of Pore-Blocking by Emulsion Droplets	oral
Raphael Machado Cezar	423	HMTR	NUMERICAL STUDY OF A 1M DIAMETER METHANOL POOL FIRE: AN ASSESSMENT OF TURBULENCE AND EVAPORATION MODEL	oral
Raphael Marinho Lomonaco Neto	292	COMB	STUDY OF ADVANCE AND DELAY OF PILOT AND MAIN INJECTIONS FOR DIFFERENT ENGINE OPERATING LOADS	poster
Raphael Nunes	364	ENTS	THERMO-ECONOMIC ANALYSIS OF A CONVENTIONAL REFRIGERATOR HOUSEHOLD USING PCM	poster
Raphael Nunes	721	HMTR	MODELING A DIRECT-EXPANSION SOLAR ASSISTED HEAT PUMP CONDENSER WITH EMPHASIS ON CONVECTIVE HEAT TRANSFE	poster
Raul Liston	256	HVAC	TEMPERATURE CONTROL OF DOMESTIC REFRIGERATORS BASED UPON THE ELECTRIC CURRENT OF THE COMPRESSOR	oral
Raysa Gomes dos Santos	383	FLMR	A numerical investigation on concentrated emulsions in simple shear flow	oral
Regiane Gordia Drabeski	126	AERO	Thermal diffusivity and surface mechanical properties of the plasma nitrided Hastelloy X superalloy	poster
REGINA ANTONIO	210	ENTS	Performance prediction of microbial fuel cells for acid mine drainage treatment and energy production using least squares fitti	oral
Renata Rech de Souza	539	ENTS	Power Plant Performance Assessment - Physical and Machine Learning Integration Through Multifidelity Modeling	oral
Renata Rech de Souza	548	ENTS	Artificial Neural Networks to predict a coal-fired power plant efficiency: comparative study	oral
Renato Batista	628	ENTS	Experimental study of Ex-situ catalytic pyrolysis of sugarcane bagasse using calcium oxide as catalyst	poster
Renato Batista	632	ENTS	IN-SITU catalytic pyrolysis of sugarcane bagasse using calcium carbonate for biofuel production.	poster
Renato Finoteli	687	OSPE	A theoretical-experimental comparison for a flexible pipe aspirating fluid under VIV	oral
Renato Machado Cotta	325	ENTS	Experimental analysis of the heat and mass transfer of a flat sheet module of direct contact membrane distillation (DCMD) for	oral
Renato Machado Cotta	670	NUCE	ASSESSMENT OF DESALINATION VIA MEMBRANE DISTILLATION USING LOW-GRADE WASTE HEAT IN SMALL MODULAR REACTO	oral

Renato Maia Matarazzo Orsino	687	OSPE	A theoretical-experimental comparison for a flexible pipe aspirating fluid under VIV	oral
Renato Pereira	219	ENTS	Assessment of the Steam Reforming of Ethanol for Hydrogen Production in a Lumped-Particle Packed Bed Reformer Heated by	oral
Renato Pereira	222	HMTR	Mathematical Modelling for Solar-Powered Seawater Desalination Process on the Solid Open-Cell Foam Bed Based on Direct C	poster
Renato Siqueira	53	FLMR	NUMERICAL MODELLING OF MICRO-SCALE LIQUID-LIQUID DISPLACEMENT IN HOMOGENEOUS AND HETEROGENEOUS POROUS	poster
Renato Siqueira	132	FLMR	PORE-SCALE SIMULATION OF CaCO3 SCALING EFFECTS ON LOSS OF PRODUCTION IN OIL RESERVOIRS	poster
Renato Siqueira	180	OSPE	BIBLIOMETRIC ANALYSIS, SYSTEMATIC REVIEW AND EXPERIMENTAL STUDY OF SURFACE AND MATERIAL EFFECT IN CALCIUM C	poster
Renato Siqueira	468	OSPE	Detection of Calcium Carbonate Precipitation by Sensors Based on Fiber Optic Bragg Networks	poster
Renatto Yupa-Villanueva	335	HVAC	Numerical Analysis Of Volumetric Inefficiencies Of A Small Variable Capacity Reciprocating Compressor	oral
René Sebastian Valencia Ramírez	89	COMB	PARAMETRIC STUDY OF EMPIRICAL CONSTANTS USED IN SOOT FORMATION MODELS BASED ON INTERPOLATIVE CLOSURE MET	oral
Reynaldo Palacios	238	ENTS	THERMODYNAMIC ANALYSIS OF THE INFLUENCE OF CARBON DIOXIDE AS DILUENT IN OXY-FUEL COMBUSTION GAS TURBINES	oral
Reynaldo Palacios	323	ENTS	Exergetic analysis of a supercritical cogeneration system proposed for a sugarcane mill producing sugar and ethanol	oral
Ricardo Galdino da SIlva	46	AERO	NUMERICAL INFLUENCE OF VISCOUS FLUX CALCULATION SCHEMES FOR TURBULENT FLOW SIMULATIONS IN AERONAUTICAL A	oral
Ricardo Hartmann	508	ENTS	ASSESSMENT OF EXERGETIC EFFICIENCY OF BRAZILIAN METROPOLES EVALUATING THE INTRODUCTION OF ELECTROMOBILITY	oral
Ricardo Knesebeck	395	ENTS	MATHEMATICAL MODEL OF TIGHTNESS TESTS WITH THERMAL EFFECTS	poster
Ricardo Linhares	130	OSPE	EXPERIMENTAL INVESTIGATION OF THE TEMPORAL AND RADIAL VARIATION OF THE COMPOSITION OF WAX DEPOSITS FORMEI	oral
Ricardo Linhares	213	OSPE	INTERFACE TEMPERATURE MEASURMENTS AND CRYSTAL VISUALIZATION DURING WAX DEPOSIT FORMATION ON COLD SURFA	oral
Ricardo Ramos	595	ENTS	THERMODYNAMICS ANALYSIS OF A WATER HEAT TREATMENT UNIT FOR SUGAR-ALCOHOLIC PLANTS	poster
Ricardo Victal Moreira Leite	643	FLMR	DIFFUSER STUDY FOR ENHANCING THE EFFICIENCY OF WIND TURBINES	poster
RICHARDSON LEANDRO NUNES	478	ENTS	Evaluation of potential fluids for low temperature Organic Rankine cycle	oral
RICHARDSON LEANDRO NUNES	575	ENTS	Experimental study and simulation of Organic Rankine Cycle using R123	oral
Rigoberto Morales	121	FLMR	MECHANISTIC MODELING OF THE SURGING PHENOMENON INITIATION IN CENTRIFUGAL PUMPS OPERATING WITH GAS-LIQUI	poster
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Rigoberto Morales	444	FLMR	EXPERIMENTAL STUDY OF THE INFLUENCE OF GAS DENSITY ON TWO-PHASE FLOW IN A ROCKING-FLOW CELL	oral
Rigoberto Morales	463	FLMR	PIV investigation of the flow field in a centrifugal rotor	oral
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Rigoberto Morales	486	FLMR	ANALYSIS OF SINGLE-BUBBLE DYNAMICS IN CONFINED CHANNELS	oral
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Rita de Cássia Fernandes de Lima	613	BIOE	AGATA: Infrared image-based CAD system to aid in breast cancer screening	oral
Roberta Fatima Neumeister	100	FLMR	NUMERICAL STUDY OF TANDEM SLENDER CYLINDERS ON A TURBULENT CROSSFLOW	oral
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Roberta Juliana Collet da Fonseca	354	HMTR	Development and application of a wide-band approach based on the weighted-sum-of-gray-gases model for problems with no	oral
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Roberta Juliana Collet da Fonseca	513	HMTR	PROPOSITION OF A NEW METHODOLOGY FOR GENERATING THE COEFFICIENTS OF THE WEIGHTED-SUM-OF-GRAY-GASES MOD	oral
Roberta Minussi	612	FLMR	Power-law Fluid Flow Behavior on Porous Media Interface	oral
Roberto Begnis Hausen	467	AERO	Combustion analysis of a new concept uniflow two stroke engine for experimental aircraft application	oral
Roberto Berlini Rodrigues da Costa	422	COMB	Comparative study regarding the use of hydrogen, natural gas and biogas for dual-fuel operation in diesel engines	poster
Roberto Bigonha	590	ENTS	A REVIEW ON THE USE OF BIOGAS AS A FUEL FOR INTERNAL COMBUSTION ENGINES	oral
ROBERTO CARLOS CHUCUYA HUALLPACHOQU	240	ENTS	NUMERICAL CHARACTERIZATION OF THE GEOMETRY AT THE ENTRANCE TO THE TANK IN THE FORMATION AND DEVELOPMENT	oral
Roberto Mamud Guedes da Silva	108	HMTR	Estimation of pollution sources with Physics-Informed Neural Network	oral
Roberto Wolf Francisco Jr.	553	COMB	ANALYSIS OF A RADIANT POROUS BURNER WITH ENERGY RECOVERY SYSTEM ATTACHED USING PREMIXED METHANE AND AIR	oral
Roberto Wolf Francisco Jr.	579	COMB	ANALYSIS OF POLLUTANT EMISSIONS FROM THE BURNING OF BIOMASS PELLETS AND AIR FOR DIFFERENT OPERATING CONDIT	oral
Robson Eduardo dos Anjos Schneider	104	ENTS	Thermodynamic Modelling of Rotating Detonation Engines Cycles	oral
Robson Leal da Silva	695	HVAC	COMMERCIAL DRINKING-FOUNTAIN EXPERIMENT, BASED ON ABNT NBR 16236	poster
Rodolfo Castanho Fernandes	655	FLMR	Computational Fluid Dynamic analyses in order to improve portable ducted fan performance for crops spray penetration	poster
Rodolfo Perissinotto	42	FLMR	Pressure field in a centrifugal pump computed from particle image velocimetry	oral
Rodolfo Prediger Helfenstein	450	HMTR	A PRELIMINARY DESIGN OF NUMERICAL EXPERIMENTS STUDY ON THE INFLUENCE OF FACTORS AFFECTING THE FIRE SPREAD IN	oral
Rodolfo Ramalho	693	FLMR	Numerical model for analysis of axial-flow pumps designed using the minimum pressure coefficient criterion	poster
Rodolfo Rodrigues	617	COMB	ESTIMATING THE HIGHER HEATING VALUE OF CANDIOTA COAL USING DIFFERENT METHODS OF MACHINE LEARNING	oral
Rodrigo Guedes	399	HMTR	NUMERICAL THERMAL ANALYSIS OF AN 81MM MORTAR	oral

Rodrigo Guedes	401	HMTR	STATE ESTIMATION OF THE HEAT FLUX IN AN 81 MM MORTAR	oral
Rodrigo Guedes dos Santos	371	ENTS	A comparative analysis of hypotheses in modeling a hybrid compression refrigeration cycle	oral
Rodrigo Gustavo Dourado da Silva	56	HMTR	REAL-TIME HEAT FLUX ESTIMATION IN TURNING PROCESS USING INVERSE PROBLEM TECHNIQUE AND INFRARED THERMOGRA	oral
Rodrigo Luís Formosinho Castello Branco	86	FLMR	Linear stability analysis of closure models for the 1D Two-Fluid Model: a focus on the velocity shape factor	oral
Rodrigo Perito Cardoso	252	HVAC	An Image-Based Technique for Ice Quality Evaluation	oral
Rodrigo Prando Pedroni	132	FLMR	PORE-SCALE SIMULATION OF CaCO3 SCALING EFFECTS ON LOSS OF PRODUCTION IN OIL RESERVOIRS	poster
Rogério De Paula	466	FLMR	Numerical investigation of ferrofluid droplets motion in pressure driven flows	oral
Rogerio Fernandes Brito	572	HMTR	USING INVERSE TECHNIQUES TO SOLVE HEAT TRANSFER PROBLEMS WITH APPLICATION TO A HIGH-SPEED STEEL TOOL DURING	oral
ROGERIO GAMA	288	HMTR	NUMERICAL APPROXIMATION FOR POROUS PARALLEL FINS WITH RADIATION	oral
Rogério Gonçalves dos Santos	25	COMB	Validation of a Reduced Chemical Kinetic Mechanism for Supercritical Combustion of Gasoline/Ethanol Blends	oral
Rogerio Mesquita de Carvalho	244	OSPE	LIQUID-LIQUID DISPLACEMENT FLOWS IN A RADIAL HELE-SHAW CELL	oral
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Romulo Heringer	92	HMTR	ANALYTICAL MODEL OF MICROSSEGREGATION IN THE SOLIDIFICATION OF A BINARY ALLOY INCLUDING THERMODIFFUSION EF	oral
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Roseane Albani	166	HMTR	Estimation of the Deposition Rates of Atmospheric Pollutants Using Particle Swarm Optimization	oral
Rubenildo Barros	230	FLMR	Numerical study of artillery ammunition range increase using base bleed technology	oral
Rui Santiago de Sousa	45	OSPE	USE OF TAGGING AND CRITICALITY MATRIX AS PARAMETERS FOR MAINTENANCE OF HYDROMECHANICAL EQUIPMENT OF THE	poster
Samuel Luna de Abreu	40	HMTR	Cubic Hermite interpolation function in supercritical heat exchanger modeling	oral
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Samuel Luna de Abreu	77	ENTS	Electrothermal simulation of electric vehicles battery under driving conditions.	oral
Sandra Luz	485	ENTS	Life cycle assessment of biogas production from dairy cow manure on a Brazilian farm	oral
Sandra Luz	590	ENTS	A REVIEW ON THE USE OF BIOGAS AS A FUEL FOR INTERNAL COMBUSTION ENGINES	oral
Sandro Metrevelle Marcondes de Lima e Silva	56	HMTR	REAL-TIME HEAT FLUX ESTIMATION IN TURNING PROCESS USING INVERSE PROBLEM TECHNIQUE AND INFRARED THERMOGRA	oral
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Sandro Metrevelle Marcondes de Lima e Silva	644	HMTR	EXPERIMENTAL STUDY OF FORCED CONVECTION HEAT TRANSFER IN A HEATSINK WITH RECTANGULAR FLAT FINS	oral
Santiago del Rio Oliveira	578	HMTR	A NUMERICAL STUDY OF NATURAL CONVECTIVE HEAT TRANSFER FROM A HORIZONTAL TWO-DIMENSIONAL TWO-SIDED PLAT	poster
Sara Isabel de Melo Resende	364	ENTS	THERMO-ECONOMIC ANALYSIS OF A CONVENTIONAL REFRIGERATOR HOUSEHOLD USING PCM	poster
Sara Isabel de Melo Resende	721	HMTR	MODELING A DIRECT-EXPANSION SOLAR ASSISTED HEAT PUMP CONDENSER WITH EMPHASIS ON CONVECTIVE HEAT TRANSFE	poster
Satish Kandlikar	546	NMMS	High-speed imaging of flow boiling in asymmetric Dual-V microchannels with tapered manifold	oral
Sebastian Ruiz	89	COMB	PARAMETRIC STUDY OF EMPIRICAL CONSTANTS USED IN SOOT FORMATION MODELS BASED ON INTERPOLATIVE CLOSURE MET	oral
Sergio Bordalo	137	OSPE	An experimental method for the study of oscillations of pipes carrying liquid and gas mixtures in slug flow pattern	oral
Sergio Braga	220	COMB	PERFORMANCE OF COMPRESSION IGNITION ENGINES FUELED BY DIESEL-BIODIESEL-ETHANOL BLENDS USING MODELS BASED (	oral
Sergio Frey	720	FLMR	Stabilized finite element method on the flow of yield stress fluids	poster
Sergio Hanriot	449	COMB	PERFORMANCE AND KNOCKING ANALYSIS OF A MOTOR GENERATOR GROUP OPERATING IN THE OTTO CYCLE WITH GASOLINE	poster
Sergio Ribeiro	229	OSPE	Permeability prediction of karst porous media using Convolutional Neural Networks	oral
Sergio Ribeiro	233	OSPE	Estimation of well production flow rate using Recursive Neural Networks	oral
Sergio Viçosa Möller	100	FLMR	NUMERICAL STUDY OF TANDEM SLENDER CYLINDERS ON A TURBULENT CROSSFLOW	oral
Sergio Viçosa Möller	309	FLMR	The Effect of Rheological Properties on the Amplification of Roll Waves	oral
Sergio Viçosa Möller	675	FLMR	An empirical assessment of roll waves evolution in mud-like fluids flowing down steep slopes	oral
Shirley Mota Pedreira	296	AERO	Preliminary Investigation of a Pintle Injector for Atomizing Gelled Ethanol and Hydrogen Peroxide	oral
Silvia Azucena Nebra de Perez	238	ENTS	THERMODYNAMIC ANALYSIS OF THE INFLUENCE OF CARBON DIOXIDE AS DILUENT IN OXY-FUEL COMBUSTION GAS TURBINES	oral
Silvia Azucena Nebra de Perez	323	ENTS	Exergetic analysis of a supercritical cogeneration system proposed for a sugarcane mill producing sugar and ethanol	oral
silvio carlos anibal almeida	521	ENTS	Hybrid energy sources for fuel cell vehicle propulsion	oral
Silvio GUIMARAES	493	ENTS	Development of a solar radiation map using artificial intelligence techniques	oral
Silvio L. M. Junqueira	503	FLMR	Experimental Study of Fracture-Filling by a Non-Newtonian Fluid Flow With Particulate Material	oral
Silvio L. M. Junqueira	504	OSPE	MODELING AND SIMULATION OF INTERNAL CONTROL VALVE (ICV) CALCIUM CARBONATE SCALE FORMATION	oral
Solidônio Carvalho	409	COMB	BOUDOUARD, REFORMING OF CHAR AND METHANATION REACTION EVALUATION BY CFD SIMULATIONS OF FLUIDIZED-BED RE	poster
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Stephan Hennings Och	28	HMTR	Appraisal of temperature ranges and regenerator efficiency over Stirling Engines with mass transfer	oral
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Stephan Hennings Och	302	ENTS	Mathematical modeling of a hydrogen production reactor from aluminum waste	poster
Su Jian	3	NUCE	Dynamic analysis of pressurization of containment building of a pressurized water reactor with phase change materials	oral
Su Jian	102	NUCE	NATURAL CONVECTION IN A VERTICAL ANNULUS FILLED WITH POROUS MEDIA WITH INTERNAL HEAT GENERATION	oral
Su Jian	670	NUCE	ASSESSMENT OF DESALINATION VIA MEMBRANE DISTILLATION USING LOW-GRADE WASTE HEAT IN SMALL MODULAR REACTC	oral
Su Jian	694	NUCE	One-dimensional thermo-hydraulic analysis of single-phase coupled natural circulation loops	oral
Suanny Mesquita	101	AERO	DESIGN OF A TEST BENCH FOR ELECTRIC PROPULSION SYSTEMS OF UNMANNED AERIAL VEHICLES	poster
Sylvie Lorente	134	ENTS	NUMERICAL INVESTIGATION OF THE INFLUENCE OF AN AUXILIARY WALL IN THE PERFORMANCE OF A SOLAR CHIMNEY CONNE	oral
Tainan Longo	656	FLMR	NUMERICAL ANALYSIS OF FLOW OVER TWO ALIGNED CYLINDERS WITH DIFFERENT SIZES	poster
Tamiris Silva	221	FLMR	IMAGE PROCESSING TO CALCULATE THE LIQUID FRACTION OF A TWO-PHASE KEROSENE-WATER FLOW	poster
Tarciso Claudino	134	ENTS	NUMERICAL INVESTIGATION OF THE INFLUENCE OF AN AUXILIARY WALL IN THE PERFORMANCE OF A SOLAR CHIMNEY CONNE	oral
Tatiana Pineda	210	ENTS	Performance prediction of microbial fuel cells for acid mine drainage treatment and energy production using least squares fitti	oral
Taygoara Oliveira	383	FLMR	A numerical investigation on concentrated emulsions in simple shear flow	oral
Taygoara Oliveira	453	FLMR	A numerical simulation study on a H-Darrieus wind turbine	oral
Taygoara Oliveira	466	FLMR	Numerical investigation of ferrofluid droplets motion in pressure driven flows	oral
Taygoara Oliveira	480	FLMR	Ferrofluid droplets under external magnetic field and shear flow in non-equilibrium magnetization regime	oral
Thaís Doll Luz	680	ENTS	A PRELIMINARY NUMERICAL STUDY OF A CONSTANT-PRESSURE SUPERCRITICAL FLUID-BASED THERMAL ENERGY STORAGE RES	oral
Thaís Ferreira	676	HMTR	Nucleate pool boiling of Carbon Dioxide on a horizontal and vertical surface	oral
Thais Lamoglia de Carvalho	536	OSPE	Experimental study on droplets breakage of oil-water emulsions (O/W) across a variable pressure drop device	oral
Thales Maluf	411	ENTS	Comparative analysis of well drilling techniques for water and geothermal energy recovery	poster
Thalles Coimbra Borba Roldão	36	NMMS	Record Heat Flux for Flow Boiling with R123 in a single Microchannel	oral
Thalles Coimbra Borba Roldão	143	HMTR	Evaluation of the thermal-hydraulic performance of heat exchanger for energy reuse in organic Rankine cycles	oral
Thalles Coimbra Borba Roldão	478	ENTS	Evaluation of potential fluids for low temperature Organic Rankine cycle	oral
Thalles Coimbra Borba Roldão	575	ENTS	Experimental study and simulation of Organic Rankine Cycle using R123	oral
Thallyo Yuri Caetano Pereira	230	FLMR	Numerical study of artillery ammunition range increase using base bleed technology	oral
thalyssa monteiro	691	ENTS	Application of artificial neural networks to predict NO emissions into biomasses combustion processes	oral
Thamires das Chagas Silva	46	AERO	NUMERICAL INFLUENCE OF VISCOUS FLUX CALCULATION SCHEMES FOR TURBULENT FLOW SIMULATIONS IN AERONAUTICAL A	oral
THAMY HAYASHI	366	COMB	STUDY OF FLAME ACCELERATION IN A CLOSED DUCT USING EFFECTIVE LEWIS AND ZELDOVICH NUMBERS AS PARAMETERS	oral
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Thiago Antonini Alves	499	HVAC	VALIDATION AND NUMERICAL ANALYSIS OF AN EARTH-AIR HEAT EXCHANGER (EAHE) IN STEADY-STATE	poster
Thiago Cardoso de Souza	593	COMB	Numerical Study of Triple Flames in Partially Premixed Methane and Hydrogen-Air Mixtures	oral
Thiago Fernando Santiago de Freitas	247	FLMR	VALIDATION OF IMERSPEC2D USING GREEN-TAYLOR VORTICES AND TEMPORAL JET	oral
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Thomas Siqueira Pereira	272	HMTR	EXPERIMENTAL EVALUATION OF THERMAL PERFORMANCE OF A HEAT EXCHANGER USING THERMOSYPHONS	oral
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Thompson Diordinis Metzka Lanzanova	562	COMB	CHARACTERIZATION OF COMBUSTION PARAMETERS IN A SPARK-IGNITION ENGINE USING H2 AS FUEL	oral
Thompson Diordinis Metzka Lanzanova	567	FLMR	COMPARISON OF RANS, DES AND LES TURBULENCE MODELS TO DETERMINE DISCHARGE COEFFIENTS OF AN ENGINE CYLINDER	oral
tiago cousseau	719	ENTS	Mathematical model of heat dissipation in rolling bearings	oral
Tiago de Freitas Paulino	119	HVAC	ANALYSIS OF THE EFFECT OF PRESSURE DROP IN EJECTORS ON THE PERFORMANCE OF VAPOR COMPRESSION REFRIGERATION	oral
Tiago de Freitas Paulino	171	HVAC	REFRIGERANT SELECTION FOR A CHILLER AIR CONDITIONING SYSTEM IN BRAZIL	oral
Tiago de Freitas Paulino	380	HVAC	DISTRIBUTED MATHEMATICAL MODEL AND EXPERIMENTAL VALIDATION FOR A CO2 HEAT PUMP ASSISTED BY SOLAR ENERGY	poster
Tiago Francisconi Borges Camargo	259	FLMR	Identification of transient differential pressure signal features of two-phase in different flow patterns across an orifice plate	oral
Tiago Henrique Leitão Dalcuche	189	OSPE	NUMERICAL ANALYSIS OF WATER-OIL-AIR FLOW IN A HORIZONTAL GRAVITATIONAL SEPARATOR	oral
Tiago Henrique Leitão Dalcuche	703	FLMR	BUBBLE-DROP INTERACTIONS IN FLOTATION COLUMNS – THE PROBABILITY OF COMPOUND DROP FORMATION	oral
Tiago Nascimento	514	OSPE	CHARACTERIZATION OF THE ROUGHNESS PATTERN AND REYNOLDS NUMBER EFFECTS ON THE SCALE DEPOSITS IN PIPE FLOWS	oral
Tomaz Antônio Lisboa e Silva	382	FLMR	NUMERICAL STUDY OF DISPERSION OF CARBON MONOXIDE IN A STREET CANYON	poster

Túlio Augusto Zucareli de Souza	422	COMB	Comparative study regarding the use of hydrogen, natural gas and biogas for dual-fuel operation in diesel engines	poster
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ualas aguiar	204	FLMR	Topological Optimization Method Applying to Incompressible Flows Using and Integrating Finite Element Methods (FEM) and F	poster
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Vanessa Kava	515	BIOE	Biotechnological potential of microalgae in high-value compounds extraction and biofuels production	oral
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Vinicius Albani	166	HMTR	Estimation of the Deposition Rates of Atmospheric Pollutants Using Particle Swarm Optimization	oral
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