

senhorinha de fã;tima teixeira

List of Publications by Year in descending order

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150
papers

983
citations

516710

16
h-index

526287

27
g-index

157
all docs

157
docs citations

157
times ranked

815
citing authors

#	ARTICLE	IF	CITATIONS
1	Design Concept of a Non-invasive Tagging Device for Blue Sharks. Lecture Notes in Mechanical Engineering, 2023, , 80-90.	0.4	1
2	Analysis and Validation of a CFD Simulation of the Wind Through a Horizontal Axis Wind Turbine as an Actuator Disc with a Porous Jump Condition. Lecture Notes in Mechanical Engineering, 2023, , 187-199.	0.4	1
3	Hemodynamic Studies in Coronary Artery Models Manufactured by 3D Printing. Lecture Notes in Mechanical Engineering, 2022, , 191-200.	0.4	1
4	Numerical Modeling of the Wave Soldering Process and Experimental Validation. Journal of Electronic Packaging, Transactions of the ASME, 2022, 144, .	1.8	5
5	Prediction of Solder Joint Reliability with Applied Acrylic Conformal Coating. Journal of Electronic Materials, 2022, 51, 273-283.	2.2	2
6	i9MASKS Project. Advances in Higher Education and Professional Development Book Series, 2022, , 271-289.	0.2	0
7	Energy, Thermal Comfort and Pathologies – A Current Concern. Studies in Systems, Decision and Control, 2022, , 273-279.	1.0	2
8	2D PIV analysis of the flow dynamics of multiple jets impinging on a complex moving plate. International Journal of Heat and Mass Transfer, 2022, 188, 122600.	4.8	16
9	The Effect of Acrylic Conformal Coating in the Reliability of Solder Joints. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 676-681.	2.5	0
10	Organ-on-a-Chip Platforms for Drug Screening and Delivery in Tumor Cells: A Systematic Review. Cancers, 2022, 14, 935.	3.7	27
11	Project-Based Learning in a Mechanical Engineering Course: A new proposal based on student's views. International Journal of Mechanical Engineering Education, 2022, 50, 767-804.	1.0	2
12	Fluid Flow and Structural Numerical Analysis of a Cerebral Aneurysm Model. Fluids, 2022, 7, 100.	1.7	6
13	The integration of spheroids and organoids into organ-on-a-chip platforms for tumour research: A review. Bioprinting, 2022, 27, e00224.	5.8	10
14	Hemodynamic study in 3D printed stenotic coronary artery models: experimental validation and transient simulation. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 623-636.	1.6	23
15	Energy Performance of a Service Building: Comparison Between EnergyPlus and TRACE700. Lecture Notes in Computer Science, 2021, , 364-375.	1.3	0
16	Blood Flow Modeling in Coronary Arteries: A Review. Fluids, 2021, 6, 53.	1.7	34
17	Building Energy Performance: Comparison Between EnergyPlus and Other Certified Tools. Lecture Notes in Computer Science, 2021, , 493-503.	1.3	1
18	3D Printing Techniques and Their Applications to Organ-on-a-Chip Platforms: A Systematic Review. Sensors, 2021, 21, 3304.	3.8	60

#	ARTICLE	IF	CITATIONS
19	The structure of information in the internationalization processes of universities. , 2021, , .		0
20	Sawdust drying process in a large-scale pellets facility: An energy and exergy analysis. Cleaner Environmental Systems, 2021, 2, 100037.	4.2	4
21	Experimental measurements of the shear force on surface mount components simulating the wave soldering process. Soldering and Surface Mount Technology, 2021, ahead-of-print, .	1.5	2
22	Numerical Study of the Unsteady Flow in Simplified and Realistic Iliac Bifurcation Models. Fluids, 2021, 6, 284.	1.7	9
23	Application of Taguchi Method for the Analysis of a Multiple Air Jet Impingement System with and without Target Plate Motion. International Journal of Heat and Mass Transfer, 2021, 176, 121504.	4.8	14
24	Computational Simulations in Advanced Microfluidic Devices: A Review. Micromachines, 2021, 12, 1149.	2.9	15
25	Experimental and Numerical Study of Multiple Jets Impinging a Step Surface. Energies, 2021, 14, 6659.	3.1	1
26	Numerical Modeling and Optimization of an Air Handling Unit. Energies, 2021, 14, 68.	3.1	4
27	Analysis and monitoring of the combustion performance in a biomass power plant. Cleaner Engineering and Technology, 2021, , 100334.	4.0	4
28	Polydimethylsiloxane mechanical properties: A systematic review. AIMS Materials Science, 2021, 8, 952-973.	1.4	20
29	Numerical Simulation of the Flow Inside a Horizontal Closed Refrigerated Display Cabinet. , 2021, , .		0
30	Numerical Analysis of Multiple Jets Impinging on a Moving Surface. , 2021, , .		0
31	Survey of Existing Literature Data on the Biomass Combustion Behavior in Industrial Grate-Fired Boilers. , 2021, , .		1
32	Numerical Simulation of Solder Paste Printing on Through-Hole Components. , 2021, , .		0
33	Steady Flow Studies of the Geometry Effects on the Recirculation Properties at the Iliac Bifurcation. , 2021, , .		0
34	i9Masks: From a Multidisciplinary Summer Project to a Non-Accredited Short Course. , 2021, , .		0
35	Visualization and Measurements of Blood Cells Flowing in Microfluidic Systems and Blood Rheology: A Personalized Medicine Perspective. Journal of Personalized Medicine, 2020, 10, 249.	2.5	23
36	Work-in-Progress: Tailoring broad-spectrum, technology-centred IEM studies. , 2020, , .		0

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37	Thermal Conversion of Pine Wood and Kinetic Analysis under Oxidative and Non-Oxidative Environments at Low Heating Rate. Proceedings (mdpi), 2020, 58, .	0.2	7
38	3D Printed Biomodels for Flow Visualization in Stenotic Vessels: An Experimental and Numerical Study. Micromachines, 2020, 11, 549.	2.9	24
39	Assessment of the Stirling engine performance comparing two renewable energy sources: Solar energy and biomass. Renewable Energy, 2020, 154, 581-597.	8.9	51
40	Influence of Operating Conditions on the Thermal Behavior and Kinetics of Pine Wood Particles Using Thermogravimetric Analysis. Energies, 2020, 13, 2756.	3.1	13
41	Energy Performance of a Service Building: Comparison Between EnergyPlus and Revit. Lecture Notes in Computer Science, 2020, , 201-213.	1.3	4
42	Thermal Simulation of a Supermarket Cold Zone with Integrated Assessment of Human Thermal Comfort. Lecture Notes in Computer Science, 2020, , 214-227.	1.3	2
43	Fluid-Structure Interaction study of carotid blood flow: Comparison between viscosity models. European Journal of Mechanics, B/Fluids, 2020, 83, 226-234.	2.5	18
44	In vitro Biomodels in Stenotic Arteries to Perform Blood Analogues Flow Visualizations and Measurements: A Review. Open Biomedical Engineering Journal, 2020, 14, 87-102.	0.5	24
45	Multi-Objective Optimization of Solar Thermal Systems Applied to Portuguese Dwellings. Energies, 2020, 13, 6739.	3.1	14
46	Modeling Blood Pulsatile Turbulent Flow in Stenotic Coronary Arteries. International Journal of Biology and Biomedical Engineering, 2020, 14, .	0.3	6
47	Experimental and numerical analysis of the influence of the nozzle-to-plate distance in a jet impingement process. International Journal of Thermodynamics, 2020, 23, 81-91.	1.0	4
48	Measurement Errors and Uncertainty Quantification of a Two-Dimensional-Particle Image Velocimetry Experimental Setup for Jet Flow Characterization. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2020, 6, .	1.1	0
49	Numerical Analysis of Single Jet Impinging a Flat and Non-flat Plate. Lecture Notes in Computer Science, 2020, , 487-495.	1.3	0
50	Numerical simulation of blood pulsatile flow in stenotic coronary arteries: The effect of turbulence modeling and non-Newtonian assumptions. , 2020, , .		6
51	Influence of Plate Orifice in the Pre-Mixing of Gas-Powered Water Heaters. Proceedings (mdpi), 2020, 58, .	0.2	0
52	Experimental Study of Multiple Air Jets Impinging a Moving Flat Plate. , 2020, , .		0
53	Numerical Study of the Flow Inside a Modular Bag Filter From a Biomass Power Plant. , 2020, , .		0
54	Application of DOE for the Study of a Multiple Jet Impingement System. Lecture Notes in Computer Science, 2019, , 3-11.	1.3	1

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55	Multi-objective Optimization of Solar Thermal Systems Applied to Residential Building in Portugal. Lecture Notes in Computer Science, 2019, , 26-39.	1.3	0
56	Assessment of Indoor Thermal Conditions in a Cinema Room Using CFD Simulation: A Case Study. Lecture Notes in Computer Science, 2019, , 40-51.	1.3	2
57	Integrating Science, Technology, Engineering and Mathematics contents through PBL in an Industrial Engineering and Management first year program. Production, 2019, 29, .	1.3	10
58	Influence of arterial mechanical properties on carotid blood flow: Comparison of CFD and FSI studies. International Journal of Mechanical Sciences, 2019, 160, 209-218.	6.7	69
59	The Potential of Renewable Energy in Timor-Leste: An Assessment for Biomass. Energies, 2019, 12, 1441.	3.1	11
60	Corporate memory in the lean context. , 2019, , .		0
61	Reusing Equipment in Cells Reconfiguration for a Lean and Sustainable Production. Procedia Manufacturing, 2019, 39, 1038-1047.	1.9	4
62	Rheology of F620 solder paste and flux. Soldering and Surface Mount Technology, 2019, 31, 125-132.	1.5	4
63	Simulation of PMV and PPD Thermal Comfort Using EnergyPlus. Lecture Notes in Computer Science, 2019, , 52-65.	1.3	6
64	NUMERICAL ANALYSIS OF THE INFLUENCE OF THE JET-TO-JET SPACING BETWEEN TWO ADJACENT AIR JETS IMPINGING A FLAT PLATE. , 2019, , .		1
65	CFD Simulation of an Alfa-Stirling Engine to Study the Geometrical Parameters on the Engine Performance. , 2019, , .		0
66	Measurement Errors and Uncertainty Estimation of an Experimental Set Up Using a 2D PIV Technique. , 2019, , .		0
67	Influence of the Applied Load on the Creep Behaviour of Tin-Silver-Copper Solder. , 2019, , .		0
68	Thermal-economic optimisation of a CHP gas turbine system by applying a fit-problem genetic algorithm. International Journal of Sustainable Energy, 2018, 37, 354-377.	2.4	4
69	Combustion Modelling of a 20 kW Pellet Boiler. , 2018, , .		2
70	An Experimental Setup for Multiple Air Jet Impingement Over a Surface. , 2018, , .		0
71	Influence of the Microstructure on the Creep Behaviour of Tin-Silver-Copper Solder. , 2018, , .		0
72	A Numerical Study of Solder Paste Rolling Process for PCB Printing. , 2018, , .		0

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73	Effect of the Soldering Atmosphere on the Wettability Between Sn4.0Ag0.5Cu (in wt.%) Lead-Free Solder Paste and Various Substrates. Journal of Materials Engineering and Performance, 2018, 27, 5011-5017.	2.5	5
74	Thermal comfort assessment of orthopaedic health professionals in an operating room. , 2018, , 561-565.		0
75	Design of a solar dish Stirling cogeneration system: Application of a multi-objective optimization approach. Applied Thermal Engineering, 2017, 123, 646-657.	6.0	31
76	CFD Modeling of Combustion in Biomass Furnace. Energy Procedia, 2017, 120, 665-672.	1.8	31
77	Parametric Analysis of the Thermal Components of an Alpha-Stirling Engine for Cogeneration Applications. , 2017, , .		0
78	Creep Behavior of a Solder Paste With Bi Addition. , 2017, , .		2
79	Tutoring Experiences in PBL of Industrial Engineering and Management Program: Teachers vs Students. , 2017, , .		2
80	Study of Devolatilization Rates of Pine Wood and Mass Loss of Wood Pellets. , 2017, , .		3
81	Rheology Characterization of Solder Paste. , 2017, , .		1
82	Energy and Exergy Analysis of a Biomass Power Plant. , 2016, , .		1
83	CFD Modeling the Cooling Stage of Reflow Soldering Process. , 2016, , .		2
84	Combined Tools for Surgical Case Packages Contents and Cost Optimization: A Preliminary Study. Procedia Computer Science, 2016, 100, 393-398.	2.0	0
85	A Correlative CFD Study Between Recirculation Area and FPM in VHC Design. , 2016, , .		0
86	Thermal Driven Dispersion of Smoke in a Parking Space. , 2016, , .		1
87	Contact angle measurement of SAC 305 solder: numerical and experimental approach. Journal of Materials Science: Materials in Electronics, 2016, 27, 8941-8950.	2.2	10
88	Thermodynamic and economic optimization of a solar-powered Stirling engine for micro-cogeneration purposes. Energy, 2016, 111, 1-17.	8.8	86
89	Influence of Copper Layer Content in the Elastic and Damping Behavior of Glass-Fiber/Epoxy-Resin Composites. Applied Composite Materials, 2016, 23, 1219-1228.	2.5	5
90	Design Optimization of a Solar Dish Collector for Its Application With Stirling Engines. , 2015, , .		5

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91	VHC Performance Evaluation at Constant Flow: 30 L/Min. , 2015, , .		0
92	Modeling the Reflow Soldering Process in PCBs. , 2015, , .		2
93	Wetting behaviour of SAC305 solder on different substrates in high vacuum and inert atmosphere. Journal of Materials Science: Materials in Electronics, 2015, 26, 5106-5112.	2.2	13
94	Thermal comfort assessment of a surgical room through computational fluid dynamics using local PMV index. Work, 2015, 51, 445-456.	1.1	13
95	Testing a human thermal software using field investigation from an industrial plant. , 2015, , 329-332.		0
96	Numerical Modeling of Wave Soldering in PCB. , 2014, , .		0
97	Maximum Profit of a Cogeneration System Based on Stirling Thermodynamic Cycle. , 2014, , .		2
98	Sensitivity Studies on a Transient Thermal Model of the Human Body. , 2014, , .		0
99	Indoor Ventilation in Hospital Operating Rooms. , 2014, , .		0
100	Numerical Study of Regenerator Configuration in the Design of a Stirling Engine. , 2014, , .		1
101	Jet Interaction in Cross Flow: Experimental and Numerical Model. , 2014, , .		0
102	A CFD Study of a pMDI Plume Spray. , 2014, , 163-176.		4
103	Thermal Hydraulic Modeling of Shell and Tube Heat Exchangers. , 2014, , .		0
104	Modeling the Thermal Environment in an Operating Room. , 2014, , .		0
105	Two Stage Atmospheric Burners: Development and Verification of a New Mass-Energy Balance Model. , 2014, , .		0
106	Testing thermal comfort of trekking boots: An objective and subjective evaluation. Applied Ergonomics, 2013, 44, 557-565.	3.1	33
107	Teaching Heat Exchanger Design in Mechanical Engineering With CFD. , 2013, , .		0
108	Exergy Efficiency Optimization for Gas Turbine Based Cogeneration Systems. , 2013, , .		1

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109	Thermal-Economic Modeling of a Micro-CHP Unit Based on a Stirling Engine. , 2013, , .		2
110	Thermal comfort evaluation of an operating room through CFD methodology. , 2013, , 425-430.		0
111	CFD Simulation of Two-Phase Flow in a Large Scale Venturi Scrubber. , 2013, , .		1
112	An Experimental Setup for API Assessment of a Valved Holding Chamber Device. , 2013, , .		1
113	Experimental analysis of particles flow inside the Volumatic®spacer. , 2013, , .		0
114	Flow Structure Over a Simulated Bed for Costal Cohesive Sediment Erosion Studies. , 2013, , .		0
115	Modeling a Stirling Engine for Cogeneration Applications. , 2012, , .		1
116	Development and Optimization of a Small Scale Pellet Burner. , 2012, , .		1
117	Modeling Flow Recirculation Inside a Holding Chamber. , 2012, , .		0
118	Development of new spacer device geometry: a CFD study (Part I). Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 825-833.	1.6	15
119	An economic perspective on the optimisation of a small-scale cogeneration system for the Portuguese scenario. Energy, 2012, 45, 436-444.	8.8	26
120	On Solving the Profit Maximization of Small Cogeneration Systems. Lecture Notes in Computer Science, 2012, , 147-158.	1.3	5
121	A lining for the Thermal Comfort of Trekking Boots “ Experimental and Numerical Studies. Research Journal of Textile and Apparel, 2011, 15, 50-61.	1.1	2
122	Optimal Design of Micro-Turbine Cogeneration Systems for the Portuguese Buildings Sector. , 2011, , .		2
123	Experimental Validation of a CFD Model in a Thermal Environment Characterization. , 2011, , .		1
124	Design and Development of a New Valve Geometry for Spacer Devices. , 2010, , .		0
125	Teaching differential equations in different environments: A first approach. Computer Applications in Engineering Education, 2010, 18, 555-562.	3.4	7
126	The effect of oscillations on the flow patterns near a simulated bed. Coastal Engineering, 2010, 57, 684-693.	4.0	0

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127	Development and Evaluation of a Micro-Cogeneration Prototype for Residential Applications. , 2010, , .		0
128	Physical Characterization of Estuarine Sediments in the Northern Coast of Portugal. Journal of Coastal Research, 2010, 262, 301-311.	0.3	2
129	Optimization of a Small Scale Pellet Boiler. , 2010, , .		0
130	Computational Fluid Dynamics Applicable to Cloth Design. , 2009, , .		0
131	Study and Development of Spacers for Pressurized Inhaler Devices: A Project Review. , 2009, , .		0
132	Experiments in a large-scale venturi scrubber. Chemical Engineering and Processing: Process Intensification, 2009, 48, 59-67.	3.6	27
133	Experiments in large scale venturi scrubber. Chemical Engineering and Processing: Process Intensification, 2009, 48, 424-431.	3.6	17
134	Thermo-Economic Optimization in the Design of Small-Scale and Residential Cogeneration Systems. , 2009, , .		1
135	Contributions to the Study of Blood Flow in the Abdominal Aorta and Its Branches. , 2009, , .		0
136	Application of laser anemometry for measuring critical bed shear stress of sediment core samples. Continental Shelf Research, 2008, 28, 2718-2724.	1.8	9
137	Experimental Study and CFD Analysis of the Volumatic® Spacer. , 2008, , .		1
138	The Influence of Renal Branches on the Iliac Arteries Blood Flow. , 2008, , .		0
139	Axial variation of droplet distribution in a venturi scrubber. WIT Transactions on Ecology and the Environment, 2008, , .	0.0	0
140	Numerical study of blood fluid rheology in the abdominal aorta. WIT Transactions on Ecology and the Environment, 2008, , .	0.0	1
141	Teaching Partial Differential Equations With Computer-Based Problem Solving. , 2006, , 121.		0
142	Development of an Experimental Facility to Test Polymer Extrusion. , 2006, , .		1
143	Numerical and experimental studies in the development of new clothing materials. WIT Transactions on Engineering Sciences, 2006, , .	0.0	1
144	Simplified Model for the Thermal Boundary Condition in Polymer Injection. , 2005, , 201.		0

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145	Numerical Optimization of a Gas Turbine Cogeneration Plant. , 2003, , 699.		0
146	Evaluation of the Thermal Behaviour of Injection Moulds. International Polymer Processing, 2000, 15, 95-102.	0.5	3
147	A quasi-one-dimensional model for gas/solids flow in venturis. Powder Technology, 1999, 102, 281-288.	4.2	13
148	Computational Fluid Dynamics Simulations: an Approach to Evaluate Cardiovascular Dysfunction. , 0, , .		0
149	pMDI Sprays: Theory, Experiment and Numerical Simulation. , 0, , .		4
150	Comparison of CFD and FSI Simulations of Blood Flow in Stenotic Coronary Arteries. , 0, , .		3