

Josã© Carlos Teixeira

List of Publications by Year in descending order

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79
papers

698
citations

623574

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82
all docs

82
docs citations

82
times ranked

675
citing authors

#	ARTICLE	IF	CITATIONS
1	Oleaginous yeasts for sustainable lipid production—“from biodiesel to surf boards, a wide range of “œgreen” applications. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3651-3667.	1.7	99
2	Influence of arterial mechanical properties on carotid blood flow: Comparison of CFD and FSI studies. <i>International Journal of Mechanical Sciences</i> , 2019, 160, 209-218.	3.6	69
3	Assessment of the Stirling engine performance comparing two renewable energy sources: Solar energy and biomass. <i>Renewable Energy</i> , 2020, 154, 581-597.	4.3	51
4	Thermo-mechanical challenges of reflowed lead-free solder joints in surface mount components: a review. <i>Soldering and Surface Mount Technology</i> , 2016, 28, 41-62.	0.9	47
5	Blood Flow Modeling in Coronary Arteries: A Review. <i>Fluids</i> , 2021, 6, 53.	0.8	34
6	The role of lubricant feeding conditions on the performance improvement and friction reduction of journal bearings. <i>Tribology International</i> , 2014, 72, 65-82.	3.0	33
7	Optimization of lipid extraction from the oleaginous yeasts <i>Rhodotorula glutinis</i> and <i>Lipomyces kononenkoae</i> . <i>AMB Express</i> , 2018, 8, 126.	1.4	30
8	The combined effect of melt stirring and ultrasonic agitation on the degassing efficiency of AlSi9Cu3 alloy. <i>Materials Letters</i> , 2009, 63, 2089-2092.	1.3	27
9	Experiments in a large-scale venturi scrubber. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 59-67.	1.8	27
10	Hemodynamic study in 3D printed stenotic coronary artery models: experimental validation and transient simulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 623-636.	0.9	23
11	Manufacturing Methodology on Casting-Based Aluminium Matrix Composites: Systematic Review. <i>Metals</i> , 2021, 11, 436.	1.0	20
12	Fluid—“Structure Interaction study of carotid blood flow: Comparison between viscosity models. <i>European Journal of Mechanics, B/Fluids</i> , 2020, 83, 226-234.	1.2	18
13	Experiments in large scale venturi scrubber. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 424-431.	1.8	17
14	Development of new spacer device geometry: a CFD study (Part I). <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 825-833.	0.9	15
15	Thermohydrodynamic modelling of journal bearings under varying load angle and negative groove flow rate. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2014, 228, 955-973.	1.0	15
16	Multi-Objective Optimization of Solar Thermal Systems Applied to Portuguese Dwellings. <i>Energies</i> , 2020, 13, 6739.	1.6	14
17	Thermal comfort assessment of a surgical room through computational fluid dynamics using local PMV index. <i>Work</i> , 2015, 51, 445-456.	0.6	13
18	Development of a solar concentrator with—“tracking—“system. <i>Mechanical Sciences</i> , 2016, 7, 233-245.	0.5	13

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19	Analysis of Industrial Waste in Wood Pellets and Co-combustion Products. Waste and Biomass Valorization, 2014, 5, 637-650.	1.8	12
20	Contact angle measurement of SAC 305 solder: numerical and experimental approach. Journal of Materials Science: Materials in Electronics, 2016, 27, 8941-8950.	1.1	10
21	Application of laser anemometry for measuring critical bed shear stress of sediment core samples. Continental Shelf Research, 2008, 28, 2718-2724.	0.9	9
22	Effect of hot pressing variables on the microstructure, relative density and hardness of sterling silver (Ag-Cu alloy) powder compacts. Materials Research, 2014, 17, 664-671.	0.6	9
23	Numerical Study of the Unsteady Flow in Simplified and Realistic Iliac Bifurcation Models. Fluids, 2021, 6, 284.	0.8	9
24	Optimizing high-volume ultrasonic melt degassing using synchronized kinematic translation. Journal of Materials Research and Technology, 2021, 14, 2832-2844.	2.6	6
25	Simulation of PMV and PPD Thermal Comfort Using EnergyPlus. Lecture Notes in Computer Science, 2019, , 52-65.	1.0	6
26	Design Optimization of a Solar Dish Collector for Its Application With Stirling Engines. , 2015, , .		5
27	The effect of Bi addition on the electrical and microstructural properties of SAC405 soldered structure. Soldering and Surface Mount Technology, 2021, 33, 19-25.	0.9	5
28	Numerical Modeling of the Wave Soldering Process and Experimental Validation. Journal of Electronic Packaging, Transactions of the ASME, 2022, 144, .	1.2	5
29	The role of the temperature errors in DSC scans on the prediction of the average density of nuclei in polymers crystallized under quiescent conditions. Thermochimica Acta, 2002, 391, 97-106.	1.2	4
30	Moving boundary in non-equilibrium simple batch distillation in non-ideal systems. Chemical Engineering and Processing: Process Intensification, 2009, 48, 1574-1578.	1.8	4
31	Experimental Studies on Wood Pellets Combustion in a Fixed Bed Combustor Using Taguchi Method. Fuels, 2021, 2, 376-392.	1.3	4
32	Energy Performance of a Service Building: Comparison Between EnergyPlus and Revit. Lecture Notes in Computer Science, 2020, , 201-213.	1.0	4
33	A CFD Study of a pMDI Plume Spray. , 2014, , 163-176.		4
34	Effect of Ultrasonic Melt Treatment on Solidification Behavior of Al7SiMg Alloy. International Journal of Metalcasting, 2023, 17, 1034-1048.	1.5	4
35	Study of Devolatilization Rates of Pine Wood and Mass Loss of Wood Pellets. , 2017, , .		3
36	Comparison of CFD and FSI Simulations of Blood Flow in Stenotic Coronary Arteries. , 0, , .		3

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37	Physical Characterization of Estuarine Sediments in the Northern Coast of Portugal. Journal of Coastal Research, 2010, 262, 301-311.	0.1	2
38	Modeling the Reflow Soldering Process in PCBs. , 2015, , .		2
39	Creep Behavior of a Solder Paste With Bi Addition. , 2017, , .		2
40	Assessment of Indoor Thermal Conditions in a Cinema Room Using CFD Simulation: A Case Study. Lecture Notes in Computer Science, 2019, , 40-51.	1.0	2
41	Thermal Simulation of a Supermarket Cold Zone with Integrated Assessment of Human Thermal Comfort. Lecture Notes in Computer Science, 2020, , 214-227.	1.0	2
42	Prediction of Solder Joint Reliability with Applied Acrylic Conformal Coating. Journal of Electronic Materials, 2022, 51, 273-283.	1.0	2
43	Modeling a Stirling Engine for Cogeneration Applications. , 2012, , .		1
44	Development and Optimization of a Small Scale Pellet Burner. , 2012, , .		1
45	Exergy Efficiency Optimization for Gas Turbine Based Cogeneration Systems. , 2013, , .		1
46	CFD Simulation of Two-Phase Flow in a Large Scale Venturi Scrubber. , 2013, , .		1
47	An Experimental Setup for API Assessment of a Valved Holding Chamber Device. , 2013, , .		1
48	Energy and Exergy Analysis of a Biomass Power Plant. , 2016, , .		1
49	Rheology Characterization of Solder Paste. , 2017, , .		1
50	Application of DOE for the Study of a Multiple Jet Impingement System. Lecture Notes in Computer Science, 2019, , 3-11.	1.0	1
51	Building Energy Performance: Comparison Between EnergyPlus and Other Certified Tools. Lecture Notes in Computer Science, 2021, , 493-503.	1.0	1
52	Experimental and Numerical Study of Multiple Jets Impinging a Step Surface. Energies, 2021, 14, 6659.	1.6	1
53	NUMERICAL ANALYSIS OF THE INFLUENCE OF THE JET-TO-JET SPACING BETWEEN TWO ADJACENT AIR JETS IMPINGING A FLAT PLATE. , 2019, , .		1
54	Design Concept of a Non-invasive Tagging Device for Blue Sharks. Lecture Notes in Mechanical Engineering, 2023, , 80-90.	0.3	1

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55	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.	0.3	1
56	The effect of oscillations on the flow patterns near a simulated bed. Coastal Engineering, 2010, 57, 684-693.	1.7	0
57	Modeling Flow Recirculation Inside a Holding Chamber. , 2012, , .		0
58	Teaching Heat Exchanger Design in Mechanical Engineering With CFD. , 2013, , .		0
59	Numerical Modeling of Wave Soldering in PCB. , 2014, , .		0
60	Sensibility Studies on a Transient Thermal Model of the Human Body. , 2014, , .		0
61	Indoor Ventilation in Hospital Operating Rooms. , 2014, , .		0
62	Jet Interaction in Cross Flow: Experimental and Numerical Model. , 2014, , .		0
63	A Correlative CFD Study Between Recirculation Area and FPM in VHC Design. , 2016, , .		0
64	Parametric Analysis of the Thermal Components of an Alpha-Stirling Engine for Cogeneration Applications. , 2017, , .		0
65	Influence of the Microstructure on the Creep Behaviour of Tin-Silver-Copper Solder. , 2018, , .		0
66	A Numerical Study of Solder Paste Rolling Process for PCB Printing. , 2018, , .		0
67	Energy Performance of a Service Building: Comparison Between EnergyPlus and TRACE700. Lecture Notes in Computer Science, 2021, , 364-375.	1.0	0
68	Flow Structure Over a Simulated Bed for Costal Cohesive Sediment Erosion Studies. , 2013, , .		0
69	CFD Simulation of an Alfa-Stirling Engine to Study the Geometrical Parameters on the Engine Performance. , 2019, , .		0
70	Measurement Errors and Uncertainty Estimation of an Experimental Set Up Using a 2D PIV Technique. , 2019, , .		0
71	Influence of the Applied Load on the Creep Behaviour of Tin-Silver-Copper Solder. , 2019, , .		0
72	Combustion of Biomass Based Pellets With Pyrolysis Bio-Oils. , 2019, , .		0

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73	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, .	0.7	0
74	Numerical Analysis of Single Jet Impinging a Flat and Non-flat Plate. Lecture Notes in Computer Science, 2020, , 487-495.	1.0	0
75	Development of Fiber Structures for High Performance Heat Resistant Curtains. , 2020, , .		0
76	Experimental Study of Multiple Air Jets Impinging a Moving Flat Plate. , 2020, , .		0
77	Energy Analysis and Waste Valorization in a Kraft Paper Plant. , 2020, , .		0
78	Numerical Study of the Flow Inside a Modular Bag Filter From a Biomass Power Plant. , 2020, , .		0
79	The Effect of Acrylic Conformal Coating in the Reliability of Solder Joints. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 676-681.	1.4	0