

Ana Sofia Moita

List of Publications by Year in descending order

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78
papers

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279798

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80
all docs

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docs citations

80
times ranked

1241
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances on the thermal properties and applications of nanofluids: From nanomedicine to renewable energies. <i>Applied Thermal Engineering</i> , 2022, 201, 117725.	6.0	46
2	Recent Developments on the Thermal Properties, Stability and Applications of Nanofluids in Machining, Solar Energy and Biomedicine. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1115.	2.5	23
3	The Impact of Alumina Nanofluids on Pool Boiling Performance on Biphilic Surfaces for Cooling Applications. <i>Energies</i> , 2022, 15, 372.	3.1	6
4	Organ-on-a-Chip Platforms for Drug Screening and Delivery in Tumor Cells: A Systematic Review. <i>Cancers</i> , 2022, 14, 935.	3.7	27
5	Complex Fluid Flow in Microchannels and Heat Pipes with Enhanced Surfaces for Advanced Heat Conversion and Recovery Systems. <i>Energies</i> , 2022, 15, 1478.	3.1	5
6	The Addition of Particles to an Alternative Jet Fuel. <i>Fuels</i> , 2022, 3, 184-206.	2.7	5
7	Thermofluid characterization of nanofluids in spray cooling. <i>Applied Thermal Engineering</i> , 2022, 210, 118411.	6.0	8
8	Recent trends of biomaterials and biosensors for organ-on-chip platforms. <i>Bioprinting</i> , 2022, 26, e00202.	5.8	13
9	Techno-economic evaluation of two hydrogen supply options to southern Germany: On-site production and import from Portugal. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 25214-25228.	7.1	4
10	Effect of alumina nanofluids on bubble dynamics and heat transfer under quiescent conditions. <i>International Journal of Thermofluids</i> , 2022, 15, 100168.	7.8	4
11	Assessment of an Exhaust Thermoelectric Generator Incorporating Thermal Control Applied to a Heavy Duty Vehicle. <i>Energies</i> , 2022, 15, 4787.	3.1	4
12	Heat Transfer and Fluid Dynamics of Nanofluid Droplets Impacting on a Smooth Heated Surface: Detailing Temporal Scale Effects by Using Time-Resolved Thermography. <i>Heat Transfer Engineering</i> , 2021, 42, 1720-1731.	1.9	4
13	Pool Boiling of Nanofluids on Biphilic Surfaces: An Experimental and Numerical Study. <i>Nanomaterials</i> , 2021, 11, 125.	4.1	23
14	Numerical Optimization of a Microchannel Geometry for Nanofluid Flow and Heat Dissipation Assessment. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2440.	2.5	8
15	Thermal Conductivity of Nanofluids: A Review on Prediction Models, Controversies and Challenges. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2525.	2.5	44
16	Experimental Studies of the Sedimentation, Stability and Thermal Conductivity of Two Different Nanofluids. <i>Engineering Proceedings</i> , 2021, 4, 35.	0.4	0
17	Separation Microfluidic Device Fabricated by Micromilling Techniques. <i>Engineering Proceedings</i> , 2021, 4, .	0.4	0
18	3D Printing Techniques and Their Applications to Organ-on-a-Chip Platforms: A Systematic Review. <i>Sensors</i> , 2021, 21, 3304.	3.8	60

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19	Nanofluids Characterization for Spray Cooling Applications. <i>Symmetry</i> , 2021, 13, 788.	2.2	15
20	Nanofluids for the Next Generation Thermal Management of Electronics: A Review. <i>Symmetry</i> , 2021, 13, 1362.	2.2	27
21	A novel and extremely stable nanofluid based on iron oxide nanoparticles: Experimental investigations on the thermal performance. <i>Thermal Science and Engineering Progress</i> , 2021, 26, 101085.	2.7	5
22	Experimental and numerical characterization of single-phase pressure drop and heat transfer enhancement in helical corrugated tubes. <i>International Journal of Heat and Mass Transfer</i> , 2021, 179, 121632.	4.8	16
23	Bubble Dynamics and Heat Transfer on Biphilic Surfaces. , 2021, , 93-97.		5
24	Tetralin- C_{60} fullerene solutions for thermal management of flat-plate photovoltaic/thermal collector. <i>Energy Conversion and Management</i> , 2021, 248, 114799.		
25	Thermal efficiency of metal foams on pool boiling. <i>Journal of Physics: Conference Series</i> , 2021, 2116, 012005.	0.4	2
26	Thermographical study of geometry and phase change influence on PDMS Microchannel liquid cooling devices. <i>Journal of Physics: Conference Series</i> , 2021, 2116, 012050.	0.4	0
27	Fabrication of bio-inspired non-fluorinated superhydrophobic surfaces with anti-icing property and its wettability transformation analysis. <i>Applied Surface Science</i> , 2020, 505, 144386.	6.1	68
28	On the Statistical Characterization of Sprays. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6122.	2.5	10
29	Fast, flexible and low-cost multiphase blood analogue for biomedical and energy applications. <i>Experiments in Fluids</i> , 2020, 61, 1.	2.4	14
30	Thermofluid Characterization of Nanofluid Spray Cooling Combining Phase Doppler Interferometry with High-Speed Visualization and Time-Resolved IR Thermography. <i>Energies</i> , 2020, 13, 5864.	3.1	12
31	Experimental description of bubble dynamics and heat transfer processes occurring on the pool boiling of water on biphilic surfaces. <i>Applied Thermal Engineering</i> , 2020, 178, 115507.	6.0	25
32	Effect of copper foam thickness on pool boiling heat transfer of HFE-7100. <i>International Journal of Heat and Mass Transfer</i> , 2020, 152, 119547.	4.8	57
33	Bubble Dynamics and Heat Transfer on Biphilic Surfaces: Experiments and Numerical Simulation. <i>Journal of Bionic Engineering</i> , 2020, 17, 809-821.	5.0	15
34	Characterization of net coolant flow rate to copper boiling surfaces using two-phase particle image Velocimetry and dielectric fluid. <i>Heat and Mass Transfer</i> , 2020, 56, 1811-1823.	2.1	2
35	Effect of pattern geometry on bubble dynamics and heat transfer on biphilic surfaces. <i>Experimental Thermal and Fluid Science</i> , 2020, 115, 110088.	2.7	35
36	Analogue Fluids for Cell Deformability Studies in Microfluidic Devices. <i>Communications in Computer and Information Science</i> , 2020, , 90-101.	0.5	1

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37	Assessment of Computational Cell Model Benefits for Optimization of Microfluidic Devices. , 2020, , .		0
38	Challenges and Advances in Measuring Temperatures at Liquid-Solid Interfaces. , 2020, , 357-384.		0
39	Effect of nanoparticles concentration on the characteristics of nanofluid sprays for cooling applications. Journal of Thermal Analysis and Calorimetry, 2019, 135, 3375-3386.	3.6	22
40	Experimental investigation on heat transfer and pressure drop of internal flow in corrugated tubes. International Journal of Heat and Mass Transfer, 2019, 140, 940-955.	4.8	38
41	Effect of Al ₂ O ₃ nanoparticles on laminar, transient and turbulent flow of isopropyl alcohol. International Journal of Heat and Mass Transfer, 2019, 130, 1032-1044.	4.8	31
42	Cell Deformability Studies for Clinical Diagnostics: Tests with Blood Analogue Fluids using a Drop based Microfluidic Device. , 2019, , .		1
43	Thermographic analysis of interfacial heat transfer mechanisms on droplet/wall interactions with high temporal and spatial resolution. Experimental Thermal and Fluid Science, 2018, 96, 284-294.	2.7	31
44	Investigation of effects of receding contact angle and energy conversion on numerical prediction of receding of the droplet impact onto hydrophilic and superhydrophilic surfaces. International Journal of Heat and Fluid Flow, 2018, 74, 89-109.	2.4	16
45	Wettability Effect on Pool Boiling: A Review. , 2018, , 1-61.		8
46	Two-Phase Thermosiphon Cooling Using Integrated Heat Spreaders With Copper Microstructures. , 2018, , .		4
47	ON THE PROCESS OF BUBBLE GROWING AND DEPARTURE ON HYDROPHILIC, SUPERHYDROPHOBIC AND BIPHILIC SURFACES. , 2018, , .		3
48	ENHANCED VOF-BASED DIRECT NUMERICAL SIMULATIONS OF SLUG FLOW BOILING WITHIN MICRO-CHANNELS WITH SMOOTH AND FINNED HEATED WALLS. , 2018, , .		2
49	Design, Test and Fabrication of a Droplet based Microfluidic Device for Clinical Diagnostics. , 2018, , .		0
50	Selecting and Optimizing a Heat Exchanger for Automotive Vehicle Rankine Cycle Waste Heat Recovery Systems. Energy Procedia, 2017, 107, 390-397.	1.8	4
51	Application of bioinspired superhydrophobic surfaces in two-phase heat transfer experiments. Journal of Bionic Engineering, 2017, 14, 506-519.	5.0	11
52	Effect of extreme wetting scenarios on pool boiling conditions. Applied Thermal Engineering, 2017, 115, 1424-1437.	6.0	60
53	Sensible Heat Transfer during Droplet Cooling: Experimental and Numerical Analysis. Energies, 2017, 10, 790.	3.1	24
54	Microfluidic Prototype of a Lab-on-Chip Device for Lung Cancer Diagnostics. , 2017, , .		3

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55	Bubble dynamics and heat transfer for pool boiling on hydrophilic, superhydrophobic and biphilic surfaces. <i>Journal of Physics: Conference Series</i> , 2016, 745, 032132.	0.4	10
56	Reversibly switchable wettability on aluminum alloy substrate corresponding to different pH droplet and its corrosion resistance. <i>Chemical Engineering Journal</i> , 2016, 303, 565-574.	12.7	32
57	2 phase microprocessor cooling system with controlled pool boiling of dielectrics over micro-and-nano structured Integrated Heat Spreaders. , 2016, , .		9
58	Dynamics of droplets of biological fluids on smooth superhydrophobic surfaces under electrostatic actuation. <i>Journal of Bionic Engineering</i> , 2016, 13, 220-234.	5.0	20
59	Fluid dynamic and heat transfer processes between solid surfaces and non-Newtonian liquid droplets. <i>Applied Thermal Engineering</i> , 2015, 88, 33-46.	6.0	7
60	Influence of surface topography in the boiling mechanisms. <i>International Journal of Heat and Fluid Flow</i> , 2015, 52, 50-63.	2.4	70
61	EMPIRICAL AND MODELING-BASED CORRELATIONS FOR POOL BOILING ON MICROSTRUCTURED SURFACES. <i>Interfacial Phenomena and Heat Transfer</i> , 2014, 2, 273-292.	0.8	6
62	Characterization of the topography and wettability of English weed leaves and biomimetic replicas. <i>Journal of Bionic Engineering</i> , 2014, 11, 346-359.	5.0	26
63	Study of the Combined Effects of Liquid Properties and Surface Micro-Patterning on Pool Boiling Heat Transfer. , 2014, , .		1
64	Characterization of pool boiling mechanisms over micro-patterned surfaces using PIV. <i>International Journal of Heat and Mass Transfer</i> , 2013, 66, 261-270.	4.8	31
65	Enhancement of pool boiling heat transfer by surface micro-structuring. <i>Journal of Physics: Conference Series</i> , 2012, 395, 012175.	0.4	14
66	Scaling the effects of surface topography in the secondary atomization resulting from droplet/wall interactions. <i>Experiments in Fluids</i> , 2012, 52, 679-695.	2.4	29
67	Droplet Impact on a Solid Surface. , 2011, , 183-211.		6
68	Advances and challenges in explaining fuel spray impingement: How much of single droplet impact research is useful?. <i>Progress in Energy and Combustion Science</i> , 2010, 36, 554-580.	31.2	412
69	Heat Transfer During Drop Impact Onto a Heated Solid Substrate. , 2010, , .		4
70	Development of empirical correlations to predict the secondary droplet size of impacting droplets onto heated surfaces. <i>Experiments in Fluids</i> , 2009, 47, 755-768.	2.4	29
71	Drop impacts onto cold and heated rigid surfaces: Morphological comparisons, disintegration limits and secondary atomization. <i>International Journal of Heat and Fluid Flow</i> , 2007, 28, 735-752.	2.4	73
72	Experimental study on fuel drop impacts onto rigid surfaces: Morphological comparisons, disintegration limits and secondary atomization. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 2175-2183.	3.9	25

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73	Secondary atomization of water and isooctane drops impinging on tilted heated surfaces. Experiments in Fluids, 2007, 43, 297-313.	2.4	39
74	The Deformation of Single Droplets Impacting onto a Flat Surface. , 0, , .		6
75	The Interaction of Fuel Droplets With Heated Interposed Surfaces in IC Engines. , 0, , .		3
76	Heat Transfer and Fluid Flow Investigations in PDMS Microchannel Heat Sinks Fabricated by Means of a Low-Cost 3D Printer. , 0, , .		4
77	Time resolved thermographic analysis of droplet impacts onto heated surfaces under extreme wetting scenarios. , 0, , .		0
78	Experimental and numerical study on sensible heat transfer at droplet/wall interactions. , 0, , .		0