

Sateesh Gedupudi

List of Publications by Year in descending order

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34
papers

445
citations

759190

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35
docs citations

35
times ranked

398
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and Numerical Investigation of the Effect of Bypass Injection on Wall Temperature Distribution of a Single-Phase Mini/Micro-Channel. Heat Transfer Engineering, 2022, 43, 101-125.	1.9	1
2	Stability analysis of a single phase rectangular coupled natural circulation loop system employing a Fourier series based 1-D model. Chemical Engineering Science, 2022, 247, 116900.	3.8	4
3	On the thermal performance of naturally ventilated room with straw insulation retrofitted envelope for different climatic zones of India. Journal of Cleaner Production, 2022, 342, 130665.	9.3	6
4	Development of a Compact Multivariable Sensor Probe for Two-Phase Detection in High Temperature PbLi-argon Vertical Columns. Instruments and Experimental Techniques, 2022, 65, 179-189.	0.5	0
5	In situ thermal characterization of rice straw envelope of an outdoor test room. Journal of Building Engineering, 2021, 33, 101416.	3.4	6
6	Numerical investigation on the heat transfer coefficient jump in tilted single-phase natural circulation loop and coupled natural circulation loop. International Communications in Heat and Mass Transfer, 2021, 120, 104920.	5.6	7
7	Boiling and condensation. , 2021, , 351-396.		0
8	Numerical Study of Single-Phase Heat Transfer Performance of a Mini/Micro-Channel Integrated With Multiple Bypass Micro-Nozzles. Journal of Thermal Science and Engineering Applications, 2021, 13, .	1.5	2
9	Experimental Investigation on the Change in Flow Boiling Characteristics Due to Boiling-Induced Copper Ageing. Journal of Heat Transfer, 2021, 143, .	2.1	8
10	Fourier series based 1-D numerical modelling of the dynamics of inclined closed loop buoyancy driven heat exchangers with conjugate effect. International Journal of Thermal Sciences, 2021, 167, 106987.	4.9	4
11	Experimental investigation of the influence of boiling-induced ageing on high heat flux flow boiling in a copper microchannel. International Journal of Heat and Mass Transfer, 2021, 181, 121862.	4.8	10
12	An Experimental Investigation on the Influence of Copper Ageing on Flow Boiling in a Copper Microchannel. Heat Transfer Engineering, 2020, 41, 333-350.	1.9	11
13	On the Prediction of Pressure Fluctuations and Pressure Drop Caused by Confined Bubble Growth During Flow Boiling in a Rectangular Mini/Micro-Channel. Heat Transfer Engineering, 2020, 41, 1763-1783.	1.9	9
14	Experimental investigation of flow boiling in rectangular mini/micro-channels of different aspect ratios without and with vapour venting membrane. Applied Thermal Engineering, 2020, 168, 114837.	6.0	18
15	Experimental investigation of the effect of bypass inlet on flow boiling in a mini/micro-channel. International Communications in Heat and Mass Transfer, 2020, 110, 104405.	5.6	8
16	On the influence of concrete-straw-plaster envelope thermal mass on the cooling and heating loads for different climatic zones of India. Journal of Cleaner Production, 2020, 276, 123117.	9.3	14
17	1-D semi-analytical modeling and parametric study of a single phase rectangular Coupled Natural Circulation Loop. Chemical Engineering Science, 2019, 207, 105-129.	3.8	8
18	Modeling of pressure drop and heat transfer for flow boiling in a mini/micro-channel of rectangular cross-section. International Journal of Heat and Mass Transfer, 2019, 140, 1029-1054.	4.8	19

#	ARTICLE	IF	CITATIONS
19	Thermodynamic analysis of a combined cycle for cold storage and power generation using geothermal heat source. <i>Thermal Science and Engineering Progress</i> , 2019, 11, 19-27.	2.7	12
20	Subcooled flow boiling of water in a copper microchannel: Experimental investigation and assessment of predictive methods. <i>International Communications in Heat and Mass Transfer</i> , 2019, 103, 24-30.	5.6	13
21	On the prediction of pressure drop in subcooled flow boiling of water. <i>Applied Thermal Engineering</i> , 2019, 155, 386-396.	6.0	13
22	Influence of heating surface characteristics on flow boiling in a copper microchannel: Experimental investigation and assessment of correlations. <i>International Journal of Heat and Mass Transfer</i> , 2019, 128, 290-318.	4.8	29
23	Straw bale based constructions: Measurement of effective thermal transport properties. <i>Construction and Building Materials</i> , 2019, 198, 182-194.	7.2	44
24	Studies on Three-Dimensional Mixed Convection with Surface Radiation in a Rectangular Channel with Discrete Heat Sources. <i>Heat Transfer Engineering</i> , 2019, 40, 66-80.	1.9	3
25	Correlating contact line capillarity and dynamic contact angle hysteresis in surfactant-nanoparticle based complex fluids. <i>Physics of Fluids</i> , 2018, 30, .	4.0	17
26	Governing Influence of Thermodynamic and Chemical Equilibria on the Interfacial Properties in Complex Fluids. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4141-4148.	2.6	8
27	Numerical and experimental investigation of multi-mode heat transfer in a square cavity with and without triangular fins. <i>Heat and Mass Transfer</i> , 2018, 54, 757-772.	2.1	2
28	Special issue on computational heat transfer and fluid dynamics. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , 2018, 10, 237-237.	1.1	0
29	Special issue on computational heat transfer and fluid dynamics. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , 2018, 10, 115-115.	1.1	0
30	Oscillatory solutothermal convection-driven evaporation kinetics in colloidal nanoparticle-surfactant complex fluid pendant droplets. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	17
31	Effects of interplay of nanoparticles, surfactants and base fluid on the surface tension of nanocolloids. <i>European Physical Journal E</i> , 2017, 40, 53.	1.6	83
32	Wettability of Complex Fluids and Surfactant Capped Nanoparticle-Induced Quasi-Universal Wetting Behavior. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6081-6095.	2.6	33
33	Effect of Interaction of Nanoparticles and Surfactants on the Spreading Dynamics of Sessile Droplets. <i>Langmuir</i> , 2017, 33, 12180-12192.	3.5	28
34	Flow Boiling in Rectangular Microchannels: 1-D Modeling of the Influence of Inlet Resistance on Flow Reversal. <i>Heat Transfer Engineering</i> , 2016, 37, 1114-1125.	1.9	8