

Balaji Chakravarthy

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181
papers

3,450
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31
h-index

50
g-index

189
ext. papers

3,987
ext. citations

3.2
avg, IF

6.06
L-index

#	Paper	IF	Citations
181	Experimental investigations on phase change material based finned heat sinks for electronic equipment cooling. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 1642-1649	4.9	169
180	Thermal optimization of PCM based pin fin heat sinks: An experimental study. <i>Applied Thermal Engineering</i> , 2013 , 54, 65-77	5.8	149
179	Method to improve geometry for heat transfer enhancement in PCM composite heat sinks. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 2759-2770	4.9	134
178	Interaction of surface radiation with free convection in a square cavity. <i>International Journal of Heat and Fluid Flow</i> , 1993 , 14, 260-267	2.4	121
177	Experimental investigations on thermal performance enhancement and effect of orientation on porous matrix filled PCM based heat sink. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 46, 27-30	5.8	109
176	Conjugate turbulent natural convection with surface radiation in air filled rectangular enclosures. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 625-639	4.9	83
175	Convection heat transfer from aluminium and copper foams in a vertical channel [An experimental study]. <i>International Journal of Thermal Sciences</i> , 2013 , 64, 1-10	4.1	72
174	Thermal performance of a PCM heat sink under different heat loads: [An experimental study]. <i>International Journal of Thermal Sciences</i> , 2014 , 79, 240-249	4.1	69
173	Numerical Investigation of PCM Based Heat Sinks with Embedded Metal Foam/Crossed Plate Fins. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014 , 66, 1131-1153	2.3	62
172	Correlations for free convection and surface radiation in a square cavity. <i>International Journal of Heat and Fluid Flow</i> , 1994 , 15, 249-251	2.4	62
171	Effect of surface radiation on conjugate mixed convection in a vertical channel with a discrete heat source in each wall. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 3331-3347	4.9	60
170	Conjugate mixed convection with surface radiation from a horizontal channel with protruding heat sources. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 3568-3582	4.9	58
169	Interaction of radiation with free convection in an open cavity. <i>International Journal of Heat and Fluid Flow</i> , 1994 , 15, 317-324	2.4	57
168	Interaction effects between laminar natural convection and surface radiation in tilted square and shallow enclosures. <i>International Journal of Thermal Sciences</i> , 2012 , 60, 70-84	4.1	56
167	Experimental investigation of flow assisted mixed convection in high porosity foams in vertical channels. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 5231-5241	4.9	56
166	Multi-objective geometric optimization of a PCM based matrix type composite heat sink. <i>Applied Energy</i> , 2015 , 156, 703-714	10.7	55
165	Optimization of the location of multiple discrete heat sources in a ventilated cavity using artificial neural networks and micro genetic algorithm. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 2299-2312	4.9	55

164	Experimental investigation on the heat transfer performance of a PCM based pin fin heat sink with discrete heating. <i>International Journal of Thermal Sciences</i> , 2017 , 111, 188-203	4.1	54
163	A nonlinear regression based multi-objective optimization of parameters based on experimental data from an IC engine fueled with biodiesel blends. <i>Biomass and Bioenergy</i> , 2011 , 35, 2171-2183	5.3	49
162	Multi-parameter estimation in combined conduction-radiation from a plane parallel participating medium using genetic algorithms. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 1706-1714	4.9	49
161	Experimental study of mixed convection heat transfer in a vertical duct filled with metallic porous structures. <i>International Journal of Thermal Sciences</i> , 2010 , 49, 340-348	4.1	47
160	Estimation of parameters in multi-mode heat transfer problems using Bayesian inference Effect of noise and a priori. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 2313-2334	4.9	47
159	Sensitivity of tropical cyclone Jal simulations to physics parameterizations. <i>Journal of Earth System Science</i> , 2012 , 121, 923-946	1.8	44
158	An experimental and numerical investigation of mixed convection from a heat generating element in a ventilated cavity. <i>Experimental Thermal and Fluid Science</i> , 2007 , 32, 502-520	3	42
157	Experimental investigations of heat transfer from an internally finned two phase closed thermosyphon. <i>Applied Thermal Engineering</i> , 2017 , 112, 1658-1666	5.8	41
156	Thermal performance of an internally finned two phase closed thermosyphon with refrigerant R134a: A combined experimental and numerical study. <i>International Journal of Thermal Sciences</i> , 2018 , 126, 281-293	4.1	39
155	Turbulent natural convection in an enclosure with localized heating from below. <i>International Journal of Thermal Sciences</i> , 2007 , 46, 1232-1241	4.1	39
154	Combined conduction, convection and radiation in a slot. <i>International Journal of Heat and Fluid Flow</i> , 1995 , 16, 139-144	2.4	38
153	A Bayesian approach for the simultaneous estimation of surface heat transfer coefficient and thermal conductivity from steady state experiments on fins. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 3060-3068	4.9	37
152	Optimal configuration of discrete heat sources in a vertical duct under conjugate mixed convection using artificial neural networks. <i>International Journal of Thermal Sciences</i> , 2009 , 48, 881-890	4.1	36
151	A neural network based estimation of tumour parameters from a breast thermogram. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 4714-4727	4.9	31
150	Comparison of Various Methods for Simultaneous Retrieval of Surface Emissivities and Gas Properties in Gray Participating Media. <i>Journal of Heat Transfer</i> , 2006 , 128, 829-837	1.8	30
149	Conjugate Mixed Convection With Surface Radiation From a Vertical Plate With a Discrete Heat Source. <i>Journal of Heat Transfer</i> , 2001 , 123, 698-702	1.8	30
148	Combined experimental and numerical approaches to multi-mode heat transfer between vertical parallel plates. <i>Experimental Thermal and Fluid Science</i> , 2004 , 29, 75-86	3	29
147	Entropy generation minimization in turbulent mixed convection flows. <i>International Communications in Heat and Mass Transfer</i> , 2007 , 34, 544-552	5.8	28

146	Estimation of principal thermal conductivities of layered honeycomb composites using ANN-GA based inverse technique. <i>International Journal of Thermal Sciences</i> , 2017 , 111, 423-436	4.1	27
145	Decay heat removal in pool type fast reactor using passive systems. <i>Nuclear Engineering and Design</i> , 2012 , 250, 480-499	1.8	27
144	THE USE OF ACFD APPROACH PROBLEMS INVOLVING SURFACE RADIATION AND FREE CONVECTION. <i>International Communications in Heat and Mass Transfer</i> , 2003 , 30, 251-259	5.8	27
143	Thermal management of electronics using phase change material based pin fin heat sinks. <i>Journal of Physics: Conference Series</i> , 2012 , 395, 012134	0.3	24
142	A new ANN driven MCMC method for multi-parameter estimation in two-dimensional conduction with heat generation. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 5440-5455	4.9	24
141	Interaction of turbulent natural convection and surface thermal radiation in inclined square enclosures. <i>Heat and Mass Transfer</i> , 2008 , 44, 1153-1170	2.2	24
140	Optimization of convective fin systems: a holistic approach. <i>Heat and Mass Transfer</i> , 2002 , 39, 57-68	2.2	24
139	Experimental and numerical investigations on the effect of porosity and PPI gradients of metal foams on the thermal performance of a composite phase change material heat sink. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 164, 120454	4.9	24
138	A Neural Network-Based Optimization Of Thermal Performance Of Phase Change Material-Based Finned Heat Sinks: An Experimental Study. <i>Experimental Heat Transfer</i> , 2013 , 26, 431-452	2.4	23
137	Experimental investigations of the thermal performance of self-rewetting fluids in internally finned wickless heat pipes. <i>Experimental Thermal and Fluid Science</i> , 2018 , 92, 436-446	3	23
136	Estimation of temperature dependent heat transfer coefficient in a vertical rectangular fin using liquid crystal thermography. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 3686-3693	4.9	22
135	Conjugate Mixed Convection with Surface Radiation from a Vertical Channel with Protruding Heat Sources. <i>Numerical Heat Transfer; Part A: Applications</i> , 2011 , 60, 171-196	2.3	21
134	Optimization of multiple heaters in a vented enclosure: A combined numerical and experimental study. <i>International Journal of Thermal Sciences</i> , 2010 , 49, 721-732	4.1	21
133	A polarized microwave radiative transfer model for passive remote sensing. <i>Atmospheric Research</i> , 2008 , 88, 277-293	5.4	21
132	Experimental investigation of convective heat transfer in a vertical channel with brass wire mesh blocks. <i>International Journal of Thermal Sciences</i> , 2016 , 99, 170-179	4.1	20
131	Synergistic analysis of heat transfer characteristics of an internally finned two phase closed thermosyphon. <i>Applied Thermal Engineering</i> , 2016 , 101, 720-729	5.8	20
130	Mixed convection heat transfer from a horizontal channel with protruding heat sources. <i>Heat and Mass Transfer</i> , 2005 , 41, 510-518	2.2	20
129	Experiment Driven Ann-GA Based Technique for Optimal Distribution of Discrete Heat Sources Under Mixed Convection. <i>Experimental Heat Transfer</i> , 2015 , 28, 298-315	2.4	19

128	Impact of physics parameterization and 3DVAR data assimilation on prediction of tropical cyclones in the Bay of Bengal region. <i>Natural Hazards</i> , 2016 , 80, 223-247	3	19
127	Markov Chain Monte Carlo (MCMC) approach for the determination of thermal diffusivity using transient fin heat transfer experiments. <i>International Journal of Thermal Sciences</i> , 2013 , 63, 46-54	4.1	19
126	Investigation of soot transport and radiative heat transfer in an ethylene jet diffusion flame. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 4287-4299	4.9	19
125	A characteristic correlation for heat transfer over serrated finned tubes. <i>Annals of Nuclear Energy</i> , 2015 , 85, 1052-1065	1.7	18
124	Unsteady fluid flow and heat transfer over a bank of flat tubes. <i>Heat and Mass Transfer</i> , 2008 , 44, 445-461.2		18
123	Turbulent natural convection of sodium in a cylindrical enclosure with multiple internal heat sources: A conjugate heat transfer study. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 2858-2870	4.9	17
122	Combined Laminar Mixed Convection and Surface Radiation using Asymptotic Computational Fluid Dynamics (ACFD). <i>Heat and Mass Transfer</i> , 2007 , 43, 567-577	2.2	17
121	Conjugate transient natural convection in a cylindrical enclosure with internal volumetric heat generation. <i>Annals of Nuclear Energy</i> , 2008 , 35, 1502-1514	1.7	17
120	Thermodynamic optimization of conjugate convection from a finned channel using genetic algorithms. <i>Heat and Mass Transfer</i> , 2005 , 41, 535-544	2.2	17
119	A Holistic Optimization of Convecting-Radiating Fin Systems. <i>Journal of Heat Transfer</i> , 2002 , 124, 1110-1118	1.8	17
118	ANN based estimation of heat generation from multiple protruding heat sources on a vertical plate under conjugate mixed convection. <i>International Journal of Thermal Sciences</i> , 2011 , 50, 532-543	4.1	16
117	Simultaneous Retrieval of Total Hemispherical Emissivity and Specific Heat From Transient Multimode Heat Transfer Experiments. <i>Journal of Heat Transfer</i> , 2008 , 130,	1.8	16
116	Experimental investigation of near compact wire mesh heat exchangers. <i>Applied Thermal Engineering</i> , 2016 , 108, 1158-1167	5.8	16
115	Fluid flow and heat transfer characteristics of a vertical channel with detached pin-fin arrays arranged in staggered manner on two opposite endwalls. <i>International Journal of Thermal Sciences</i> , 2016 , 105, 57-74	4.1	14
114	Geometric Optimization of a PCM-Based Heat Sink: A Coupled ANN and GA Approach. <i>Heat Transfer Engineering</i> , 2016 , 37, 875-888	1.7	14
113	Optimal Heat Distribution Among Discrete Protruding Heat Sources in a Vertical Duct: A Combined Numerical and Experimental Study. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	14
112	A heuristic approach to optimal arrangement of multiple heat sources under conjugate natural convection. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 431-444	4.9	14
111	Bayesian estimation of heat flux and thermal diffusivity using liquid crystal thermography. <i>International Journal of Thermal Sciences</i> , 2015 , 87, 31-48	4.1	13

110	A new ensemble-based data assimilation algorithm to improve track prediction of tropical cyclones. <i>Natural Hazards</i> , 2014 , 71, 659-682	3	13
109	Experimental investigation of the inlet condition on jet impingement heat transfer using liquid crystal thermography. <i>Experimental Thermal and Fluid Science</i> , 2017 , 80, 363-375	3	13
108	Computation of conjugate heat transfer in the turbulent mixed convection regime in a vertical channel with multiple heat sources. <i>Heat and Mass Transfer</i> , 2007 , 43, 1063-1074	2.2	13
107	Numerical simulation of conjugate, turbulent mixed convection heat transfer in a vertical channel with discrete heat sources. <i>International Communications in Heat and Mass Transfer</i> , 2006 , 33, 908-916	5.8	13
106	Ablation and Aero-thermodynamic Studies on Thermal Protection Systems of Sharp-Nosed Re-entry Vehicles. <i>Journal of Heat Transfer</i> , 2007 , 129, 912-916	1.8	13
105	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012 , 5, 735-743	4.7	12
104	Simultaneous Estimation of Principal Thermal Conductivities of an Anisotropic Composite Medium: An Inverse Analysis. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	12
103	Effect of surface radiation on RBC in cavities heated from below. <i>International Communications in Heat and Mass Transfer</i> , 2010 , 37, 1459-1464	5.8	12
102	A Simple Thermal Model for Mixed Convection From Protruding Heat Sources. <i>Heat Transfer Engineering</i> , 2015 , 36, 396-407	1.7	11
101	Optimal Distribution of Discrete Heat Sources Under Mixed Convection A Heuristic Approach. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	11
100	An Inexpensive Technique to Simultaneously Determine Total Emissivity and Natural Convection Heat Transfer Coefficient from Transient Experiments. <i>Experimental Heat Transfer</i> , 2010 , 23, 235-258	2.4	11
99	On the onset of natural convection in differentially heated shallow fluid layers with internal heat generation. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 4254-4263	4.9	11
98	Multi objective geometric optimization of phase change material based cylindrical heat sinks with internal stem and radial fins. <i>Thermal Science and Engineering Progress</i> , 2018 , 5, 238-251	3.6	11
97	A non-intrusive technique to determine the spatially varying heat transfer coefficients in a flat plate with flush mounted heat sources. <i>International Journal of Thermal Sciences</i> , 2018 , 131, 144-159	4.1	10
96	A Principal Component Analysis and neural network based non-iterative method for inverse conjugate natural convection. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 4684-4695	4.9	10
95	A temperature wall function for turbulent mixed convection from vertical, parallel plate channels. <i>International Journal of Thermal Sciences</i> , 2008 , 47, 723-729	4.1	10
94	Impact of Cloud Parameterization Schemes on The Simulation of Cyclone Vardah using the WRF Model. <i>Current Science</i> , 2018 , 115, 1143	2.2	10
93	Inverse estimation of number and location of discrete heaters in radiant furnaces using artificial neural networks and genetic algorithm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 226, 127-137	2.1	10

92	Heat transfer enhancement with discrete heat sources in a metal foam filled vertical channel. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 53, 180-184	5.8	9
91	Optimization of size and shape of composite heat sinks with phase change materials. <i>Heat and Mass Transfer</i> , 2011 , 47, 597-608	2.2	9
90	A new PCA-ANN algorithm for retrieval of rainfall structure in a precipitating atmosphere. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2011 , 21, 1002-1025	4.5	9
89	Interaction of Surface Radiation and Free Convection in an Enclosure With a Vertical Partition. <i>Journal of Heat Transfer</i> , 1997 , 119, 641-645	1.8	9
88	Effect of phase change and ambient temperatures on the thermal performance of a solid-liquid phase change material based heat sinks. <i>Journal of Energy Storage</i> , 2020 , 30, 101327	7.8	9
87	A novel method to detect hot spots and estimate strengths of discrete heat sources using liquid crystal thermography. <i>International Journal of Thermal Sciences</i> , 2020 , 154, 106377	4.1	9
86	Competing impact of anthropogenic emissions and meteorology on the distribution of trace gases over Indian region. <i>Journal of Atmospheric Chemistry</i> , 2016 , 73, 363-380	3.2	9
85	Estimation of local heat transfer coefficient from natural convection experiments using liquid crystal thermography and Bayesian method. <i>Experimental Thermal and Fluid Science</i> , 2018 , 97, 458-467	3	8
84	A CFD based approach for thermal hydraulic design of main vessel cooling system of pool type fast reactors. <i>Annals of Nuclear Energy</i> , 2013 , 57, 269-279	1.7	8
83	Heat Transfer Correlations for a Composite PCM Based 72 Pin Fin Heat Sink with Discrete Heating at the Base. <i>INAE Letters</i> , 2017 , 2, 65-71	0.7	8
82	Effect of baffle on convective heat transfer from a heat generating element in a ventilated cavity. <i>Heat and Mass Transfer</i> , 2009 , 45, 1069-1082	2.2	8
81	Impact of climate change on intense Bay of Bengal tropical cyclones of the post-monsoon season: a pseudo global warming approach. <i>Climate Dynamics</i> , 2021 , 56, 2855-2879	4.2	8
80	Experimental investigation on heat transfer from square jets issuing from perforated nozzles. <i>Heat and Mass Transfer</i> , 2017 , 53, 2363-2375	2.2	7
79	An experimental study on hydrodynamic and thermal performance of stainless steel wire mesh blocks in a vertical channel. <i>Experimental Thermal and Fluid Science</i> , 2017 , 86, 248-256	3	7
78	A combined ANN-GA and experimental based technique for the estimation of the unknown heat flux for a conjugate heat transfer problem. <i>Heat and Mass Transfer</i> , 2018 , 54, 3185-3197	2.2	7
77	Incorporating engineering intuition for parameter estimation in thermal sciences. <i>Heat and Mass Transfer</i> , 2013 , 49, 1771-1785	2.2	7
76	Radiative transfer simulations for the MADRAS imager of Megha-Tropiques. <i>Journal of Earth System Science</i> , 2011 , 120, 1-17	1.8	7
75	A general methodology for treating mixed convection problems using asymptotic computational fluid dynamics (ACFD). <i>International Communications in Heat and Mass Transfer</i> , 2007 , 34, 682-691	5.8	7

74	A correlation for laminar mixed convection from vertical plates using transient experiments. <i>Heat and Mass Transfer</i> , 2008 , 44, 1417-1425	2.2	7
73	An Experimental Correlation for Combined Convection and Radiation Between Parallel Vertical Plates. <i>Journal of Heat Transfer</i> , 2004 , 126, 849-851	1.8	7
72	Natural Convection in L Corners With Surface Radiation and Conduction. <i>Journal of Heat Transfer</i> , 1996 , 118, 222-225	1.8	7
71	Combined surface radiation and free convection in cavities. <i>Journal of Thermophysics and Heat Transfer</i> , 1994 , 8, 373-376	1.3	7
70	Effect of the Inlet Geometry on the Flow and Heat Transfer Characteristics of Three-Dimensional Wall Jets. <i>Journal of Heat Transfer</i> , 2019 , 141,	1.8	7
69	Evaluation of candidate strategies for the estimation of local heat transfer coefficient from wall jets. <i>Experimental Heat Transfer</i> , 2020 , 33, 40-63	2.4	7
68	Experimental and numerical studies on heat transfer from a PCM based heat sink with baffles. <i>International Journal of Thermal Sciences</i> , 2021 , 159, 106525	4.1	7
67	Heat transfer and optimization studies on layered porous stackings under an imposed pressure drop. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 60, 32-36	5.8	6
66	A Markov Chain Monte Carlo-Metropolis Hastings Approach for the Simultaneous Estimation of Heat Generation and Heat Transfer Coefficient from a Teflon Cylinder. <i>Heat Transfer Engineering</i> , 2018 , 39, 339-352	1.7	6
65	Conjugate Heat Transfer in Latent Heat Thermal Storage System With Cross Plate Fins. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	6
64	A Simple Thermal Resistance Model for Open Cell Metal Foams. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	6
63	A hybrid optimization technique for developing heat transfer correlations based on transient experiments. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 1954-1964	4.9	6
62	Estimation of thermo-physical and transport properties with Bayesian inference using transient liquid crystal thermography experiments. <i>Journal of Physics: Conference Series</i> , 2012 , 395, 012082	0.3	6
61	Interferometric study of interaction of free convection with surface radiation in an L corner. <i>International Journal of Heat and Mass Transfer</i> , 1997 , 40, 2941-2947	4.9	6
60	Determination of temperature wall functions for high Rayleigh number flows using asymptotics: A systematic approach. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 3820-3831	4.9	6
59	A numerical study of natural convection from a localized heat source in the lower plenum of a fast breeder reactor under failed conditions. <i>Heat and Mass Transfer</i> , 2004 , 40, 853-858	2.2	6
58	Thermodynamic optimization of tubular space radiators. <i>Journal of Thermophysics and Heat Transfer</i> , 1996 , 10, 705-707	1.3	6
57	Liquid crystal thermography based study on melting dynamics and the effect of mushy zone constant in numerical modeling of melting of a phase change material. <i>International Journal of Thermal Sciences</i> , 2022 , 171, 107176	4.1	6

56	Experimental investigation on the effect of wire mesh at the nozzle exit on heat transfer from impinging square jets. <i>Experimental Thermal and Fluid Science</i> , 2017 , 84, 78-89	3	5
55	Numerical and Experimental Investigations of Heat Removal Performance of Sodium-to-Air Heat Exchanger Used in Fast Reactors. <i>Heat Transfer Engineering</i> , 2015 , 36, 439-451	1.7	5
54	Numerical Investigation of Flow and Heat Transfer from Impinging Jets on a Target Surface with Protrusions. <i>Heat Transfer Engineering</i> , 2018 , 39, 568-581	1.7	5
53	Inverse radiation problem to retrieve hydrometeors from satellite microwave radiances. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 1933-1945	4.9	5
52	Multilayer differential discrete ordinate method for inhomogeneous participating media. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 2628-2635	4.9	5
51	Parameter Estimation in a Two-Layer Planar Gray Participating Medium. <i>Journal of Thermophysics and Heat Transfer</i> , 2004 , 18, 187-192	1.3	5
50	A synergistic approach to parameter estimation in multimode heat transfer. <i>International Communications in Heat and Mass Transfer</i> , 2003 , 30, 515-524	5.8	5
49	Performance analysis of extended surfaces subjected to fouling. <i>Heat and Mass Transfer</i> , 2001 , 37, 499-505	5.5	5
48	Experimental and Numerical Investigations on a Phase Change Material Based Heat Sink with Symbiotically Joined Heat Pipe. <i>Heat Transfer Engineering</i> , 2021 , 42, 23-40	1.7	5
47	A methodology to determine boundary conditions from forced convection experiments using liquid crystal thermography. <i>Heat and Mass Transfer</i> , 2017 , 53, 519-535	2.2	4
46	Implementation of SLW model in the radiative heat transfer problems with particles and high temperature gradients. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017 , 27, 1128-1141	4.5	4
45	Calibration of WRF model parameters using multiobjective adaptive surrogate model-based optimization to improve the prediction of the Indian summer monsoon. <i>Climate Dynamics</i> , 2020 , 55, 631-650	4.2	4
44	An artificial neural network based fast radiative transfer model for simulating infrared sounder radiances. <i>Journal of Earth System Science</i> , 2012 , 121, 891-901	1.8	4
43	Polarized microwave forward model simulations for tropical storm Fanoos. <i>Journal of Earth System Science</i> , 2009 , 118, 331-343	1.8	4
42	Distributed High Temperature Sensing Using Fiber Bragg Gratings. <i>International Journal of Optomechatronics</i> , 2008 , 2, 4-15	3.5	4
41	TURBULENT FORCED CONVECTION IN A PARALLEL PLATE CHANNEL WITH NATURAL CONVECTION ON THE OUTSIDE. <i>International Communications in Heat and Mass Transfer</i> , 2004 , 31, 1027-1036	5.8	4
40	Numerical analysis of a cavity radiator with mutual interaction. <i>Applied Mathematical Modelling</i> , 1996 , 20, 476-484	4.5	4
39	Numerical Modeling of a Wicked Heat Pipe Using Lumped Parameter Network Incorporating the Marangoni Effect. <i>Heat Transfer Engineering</i> , 2021 , 42, 787-801	1.7	4

38	Estimation of spatially varying heat transfer coefficient from a flat plate with flush mounted heat sources using Bayesian inference. <i>Journal of Physics: Conference Series</i> , 2016 , 745, 032094	0.3	3
37	Non-intrusive measurement of thermal contact conductance at polymer-metal two dimensional annular interface. <i>Heat and Mass Transfer</i> , 2019 , 55, 327-340	2.2	3
36	A Comparison of Quasi One-Dimensional and Two-Dimensional Ablation Models for Subliming Ablators. <i>Heat Transfer Engineering</i> , 2009 , 30, 229-236	1.7	3
35	CFD Simulations of Thermal and Flow Fields Inside a Desktop Personal Computer Cabin with Multi-core Processors. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2009 , 3, 277-288	4.5	3
34	Optimum Design of Cross-Flow Shell and Tube Heat Exchangers with Low Fin Tubes. <i>Heat Transfer Engineering</i> , 2008 , 29, 864-872	1.7	3
33	Nusselt Number Correlations for Turbulent Natural Convection Flows Using Asymptotic Analysis of the Near-Wall Region. <i>Journal of Heat Transfer</i> , 2007 , 129, 1100-1105	1.8	3
32	Discussion: Natural Convection With Radiation in a Cavity With Open Top End (Lage, J. L., Lim, J. S., and Bejan, A., 1992, ASME J. Heat Transfer, 114, pp. 479-486). <i>Journal of Heat Transfer</i> , 1993 , 115, 1085-1086	1.8	3
31	Thermal Performance of a Phase Change Material-Based Heat Sink Subject to Constant and Power Surge Heat Loads: A Numerical Study. <i>Journal of Thermal Science and Engineering Applications</i> , 2021 , 13,	1.9	3
30	Inverse conjugate mixed convection in a vertical substrate with protruding heat sources: a combined experimental and numerical study. <i>Heat and Mass Transfer</i> , 2016 , 52, 1243-1254	2.2	2
29	Thermosyphon assisted melting of PCM inside a rectangular enclosure: A synergistic numerical approach. <i>Journal of Physics: Conference Series</i> , 2016 , 745, 032130	0.3	2
28	Impact of horizontal and vertical localization scales on microwave sounder SAPHIR radiance assimilation 2016 ,		2
27	Joint Conductance Effects on Estimation of Effective Thermal Conductivities of Anisotropic Composites. <i>Journal of Thermophysics and Heat Transfer</i> , 2014 , 28, 553-560	1.3	2
26	Application of transient experimental techniques for developing a heat transfer correlation for mixed convection in porous medium. <i>Inverse Problems in Science and Engineering</i> , 2010 , 18, 1129-1150	1.3	2
25	Retrieval of hydrometeors from microwave radiances with a polarized radiative transfer model. <i>Journal of Earth System Science</i> , 2010 , 119, 97-115	1.8	2
24	A correlation for mixed convection heat transfer from converging, parallel and diverging channels with uniform volumetric heat generating plates. <i>International Communications in Heat and Mass Transfer</i> , 2006 , 33, 350-356	5.8	2
23	Estimation of Microwave Radiation Intensity from a Multilayered Cloud Model. <i>Journal of Thermophysics and Heat Transfer</i> , 2005 , 19, 343-352	1.3	2
22	A BAYESIAN ALGORITHM FOR THE RETRIEVAL OF GEOPHYSICAL PARAMETER IN THE ATMOSPHERE 2006 ,		2
21	A multi-physics ensemble approach for short-term precipitation forecasts at convective permitting scales based on sensitivity experiments over southern parts of peninsular India. <i>Journal of Earth System Science</i> , 2021 , 130, 1	1.8	2

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