Balaji Chakravarthy

List of Publications by Year
in descending order

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189	4,589	109137	138251
papers	citations	35 h-index	58 g-index

189	189	189	2389
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental investigations on phase change material based finned heat sinks for electronic equipment cooling. International Journal of Heat and Mass Transfer, 2012, 55, 1642-1649.	2.5	237
2	Thermal optimization of PCM based pin fin heat sinks: An experimental study. Applied Thermal Engineering, 2013, 54, 65-77.	3.0	212
3	Method to improve geometry for heat transfer enhancement in PCM composite heat sinks. International Journal of Heat and Mass Transfer, 2005, 48, 2759-2770.	2.5	152
4	Experimental investigations on thermal performance enhancement and effect of orientation on porous matrix filled PCM based heat sink. International Communications in Heat and Mass Transfer, 2013, 46, 27-30.	2.9	150
5	Interaction of surface radiation with free convection in a square cavity. International Journal of Heat and Fluid Flow, 1993, 14, 260-267.	1.1	143
6	Convection heat transfer from aluminium and copper foams in a vertical channel â€“ An experimental study. International Journal of Thermal Sciences, 2013, 64, 1-10.	2.6	100
7	Thermal performance of a PCM heat sink under different heat loads:ÂAn experimental study. International Journal of Thermal Sciences, 2014, 79, 240-249.	2.6	97
8	Conjugate turbulent natural convection with surface radiation in air filled rectangular enclosures. International Journal of Heat and Mass Transfer, 2007, 50, 625-639.	2.5	88
9	Numerical Investigation of PCM Based Heat Sinks with Embedded Metal Foam/Crossed Plate Fins. Numerical Heat Transfer; Part A: Applications, 2014, 66, 1131-1153.	1.2	78
10	Experimental investigation on the heat transfer performance of a PCM based pin fin heat sink with discrete heating. International Journal of Thermal Sciences, 2017, 111, 188-203.	2.6	78
11	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. International Journal of Heat and Mass Transfer, 2021, 164, 120454.	2.5	78
12	Conjugate mixed convection with surface radiation from a horizontal channel with protruding heat sources. International Journal of Heat and Mass Transfer, 2006, 49, 3568-3582.	2.5	72
13	Experimental investigation of flow assisted mixed convection in high porosity foams in vertical channels. International Journal of Heat and Mass Transfer, 2011, 54, 5231-5241.	2.5	72
14	Correlations for free convection and surface radiation in a square cavity. International Journal of Heat and Fluid Flow, 1994, 15, 249-251.	1.1	69
15	Multi-objective geometric optimization of a PCM based matrix type composite heat sink. Applied Energy, 2015, 156, 703-714.	5.1	69
16	Effect of surface radiation on conjugate mixed convection in a vertical channel with a discrete heat source in each wall. International Journal of Heat and Mass Transfer, 2002, 45, 3331-3347.	2.5	68
17	Optimization of the location of multiple discrete heat sources in a ventilated cavity using artificial neural networks and micro genetic algorithm. International Journal of Heat and Mass Transfer, 2008, 51, 2299-2312.	2.5	67
18	Experimental study of mixed convection heat transfer in a vertical duct filled with metallic porous structures. International Journal of Thermal Sciences, 2010, 49, 340-348.	2.6	62

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19	A nonlinear regression based multi-objective optimization of parameters based on experimental data from an IC engine fueled with biodiesel blends. Biomass and Bioenergy, 2011, 35, 2171-2183.	2.9	61
20	Interaction effects between laminar natural convection and surface radiation in tilted square and shallow enclosures. International Journal of Thermal Sciences, 2012, 60, 70-84.	2.6	61
21	Interaction of radiation with free convection in an open cavity. International Journal of Heat and Fluid Flow, 1994, 15, 317-324.	1.1	60
22	Estimation of parameters in multi-mode heat transfer problems using Bayesian inference â€“ Effect of noise and a priori. International Journal of Heat and Mass Transfer, 2008, 51, 2313-2334.	2.5	60
23	Experimental investigations of heat transfer from an internally finned two phase closed thermosyphon. Applied Thermal Engineering, 2017, 112, 1658-1666.	3.0	58
24	Multi-parameter estimation in combined conductionâ€“radiation from a plane parallel participating medium using genetic algorithms. International Journal of Heat and Mass Transfer, 2007, 50, 1706-1714.	2.5	56
25	An experimental and numerical investigation of mixed convection from a heat generating element in a ventilated cavity. Experimental Thermal and Fluid Science, 2007, 32, 502-520.	1.5	53
26	Thermal performance of an internally finned two phase closed thermosyphon with refrigerant R134a: A combined experimental and numerical study. International Journal of Thermal Sciences, 2018, 126, 281-293.	2.6	52
27	A Bayesian approach for the simultaneous estimation of surface heat transfer coefficient and thermal conductivity from steady state experiments on fins. International Journal of Heat and Mass Transfer, 2011, 54, 3060-3068.	2.5	51
28	Sensitivity of tropical cyclone Jal simulations to physics parameterizations. Journal of Earth System Science, 2012, 121, 923-946.	0.6	50
29	Turbulent natural convection in an enclosure with localized heating from below. International Journal of Thermal Sciences, 2007, 46, 1232-1241.	2.6	46
30	Thermal management of 18650 Li-ion battery using novel finsâ€“PCMâ€“EG composite heat sinks. Applied Energy, 2022, 316, 119048.	5.1	45
31	Optimal configuration of discrete heat sources in a vertical duct under conjugate mixed convection using artificial neural networks. International Journal of Thermal Sciences, 2009, 48, 881-890.	2.6	43
32	Combined conduction, convection and radiation in a slot. International Journal of Heat and Fluid Flow, 1995, 16, 139-144.	1.1	42
33	A neural network based estimation of tumour parameters from a breast thermogram. International Journal of Heat and Mass Transfer, 2010, 53, 4714-4727.	2.5	42
34	Entropy generation minimization in turbulent mixed convection flows. International Communications in Heat and Mass Transfer, 2007, 34, 544-552.	2.9	38
35	Combined experimental and numerical approaches to multi-mode heat transfer between vertical parallel plates. Experimental Thermal and Fluid Science, 2004, 29, 75-86.	1.5	37
36	Decay heat removal in pool type fast reactor using passive systems. Nuclear Engineering and Design, 2012, 250, 480-499.	0.8	34

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37	Estimation of principal thermal conductivities of layered honeycomb composites using ANNâ€“GA based inverse technique. International Journal of Thermal Sciences, 2017, 111, 423-436.	2.6	34
38	Conjugate Mixed Convection With Surface Radiation From a Vertical Plate With a Discrete Heat Source. Journal of Heat Transfer, 2001, 123, 698-702.	1.2	33
39	Thermal management of electronics using phase change material based pin fin heat sinks. Journal of Physics: Conference Series, 2012, 395, 012134.	0.3	33
40	A Neural Network-Based Optimization Of Thermal Performance Of Phase Change Material-Based Finned Heat Sinksâ€"An Experimental Study. Experimental Heat Transfer, 2013, 26, 431-452.	2.3	33
41	Comparison of Various Methods for Simultaneous Retrieval of Surface Emissivities and Gas Properties in Gray Participating Media. Journal of Heat Transfer, 2006, 128, 829-837.	1.2	32
42	Impact of climate change on intense Bay of Bengal tropical cyclones of the post-monsoon season: a pseudo global warming approach. Climate Dynamics, 2021, 56, 2855-2879.	1.7	31
43	Interaction of turbulent natural convection and surface thermal radiation in inclined square enclosures. Heat and Mass Transfer, 2008, 44, 1153-1170.	1.2	30
44	A new ANN driven MCMC method for multi-parameter estimation in two-dimensional conduction with heat generation. International Journal of Heat and Mass Transfer, 2010, 53, 5440-5455.	2.5	29
45	THE USE OF ACFD APPROACH PROBLEMS INVOLVING SURFACE RADIATION AND FREE CONVECTION. International Communications in Heat and Mass Transfer, 2003, 30, 251-259.	2.9	28
46	A characteristic correlation for heat transfer over serrated finned tubes. Annals of Nuclear Energy, 2015, 85, 1052-1065.	0.9	28
47	Experimental investigations of the thermal performance of self-rewetting fluids in internally finned wickless heat pipes. Experimental Thermal and Fluid Science, 2018, 92, 436-446.	1.5	28
48	Optimization of convective fin systems: a holistic approach. Heat and Mass Transfer, 2002, 39, 57-68.	1.2	27
49	Impact of physics parameterization and 3DVAR data assimilation on prediction of tropical cyclones in the Bay of Bengal region. Natural Hazards, 2016, 80, 223-247.	1.6	27
50	Multi objective geometric optimization of phase change material based cylindrical heat sinks with internal stem and radial fins. Thermal Science and Engineering Progress, 2018, 5, 238-251.	1.3	26
51	Optimization of multiple heaters in a vented enclosure â€“ A combined numerical and experimental study. International Journal of Thermal Sciences, 2010, 49, 721-732.	2.6	25
52	Conjugate Mixed Convection with Surface Radiation from a Vertical Channel with Protruding Heat Sources. Numerical Heat Transfer; Part A: Applications, 2011, 60, 171-196.	1.2	25
53	Estimation of temperature dependent heat transfer coefficient in a vertical rectangular fin using liquid crystal thermography. International Journal of Heat and Mass Transfer, 2012, 55, 3686-3693.	2.5	25
54	Markov Chain Monte Carlo (MCMC) approach for the determination of thermal diffusivity using transient fin heat transfer experiments. International Journal of Thermal Sciences, 2013, 63, 46-54.	2.6	25

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55	Synergistic analysis of heat transfer characteristics of an internally finned two phase closed thermosyphon. Applied Thermal Engineering, 2016, 101, 720-729.	3.0	25
56	Experimental investigation of convective heat transfer in a vertical channel with brass wire mesh blocks. International Journal of Thermal Sciences, 2016, 99, 170-179.	2.6	25
57	Experimental and numerical studies on heat transfer from a PCM based heat sink with baffles. International Journal of Thermal Sciences, 2021, 159, 106525.	2.6	25
58	Unsteady fluid flow and heat transfer over a bank of flat tubes. Heat and Mass Transfer, 2008, 44, 445-461.	1.2	24
59	A polarized microwave radiative transfer model for passive remote sensing. Atmospheric Research, 2008, 88, 277-293.	1.8	24
60	Turbulent natural convection of sodium in a cylindrical enclosure with multiple internal heat sources: A conjugate heat transfer study. International Journal of Heat and Mass Transfer, 2009, 52, 2858-2870.	2.5	23
61	Mixed convection heat transfer from a horizontal channel with protruding heat sources. Heat and Mass Transfer, 2005, 41, 510-518.	1.2	22
62	Geometric Optimization of a PCM-Based Heat Sinkâ€"A Coupled ANN and GA Approach. Heat Transfer Engineering, 2016, 37, 875-888.	1.2	22
63	Combined Laminar Mixed Convection and Surface Radiation using Asymptotic Computational Fluid Dynamics (ACFD). Heat and Mass Transfer, 2007, 43, 567-577.	1.2	21
64	Conjugate transient natural convection in a cylindrical enclosure with internal volumetric heat generation. Annals of Nuclear Energy, 2008, 35, 1502-1514.	0.9	21
65	Experimental investigation of near compact wire mesh heat exchangers. Applied Thermal Engineering, 2016, 108, 1158-1167.	3.0	21
66	Investigation of soot transport and radiative heat transfer in an ethylene jet diffusion flame. International Journal of Heat and Mass Transfer, 2008, 51, 4287-4299.	2.5	20
67	Experiment Driven Ann-GA Based Technique for Optimal Distribution of Discrete Heat Sources Under Mixed Convection. Experimental Heat Transfer, 2015, 28, 298-315.	2.3	20
68	Fluid flow and heat transfer characteristics of a vertical channel with detached pin-fin arrays arranged in staggered manner on two opposite endwalls. International Journal of Thermal Sciences, 2016, 105, 57-74.	2.6	20
69	A novel method to detect hot spots and estimate strengths of discrete heat sources using liquid crystal thermography. International Journal of Thermal Sciences, 2020, 154, 106377.	2.6	20
70	A Holistic Optimization of Convecting-Radiating Fin Systems. Journal of Heat Transfer, 2002, 124, 1110-1116.	1.2	19
71	Thermodynamic optimization of conjugate convection from a finned channel using genetic algorithms. Heat and Mass Transfer, 2005, 41, 535-544.	1.2	19
72	Experimental and Numerical Investigations on a Phase Change Material Based Heat Sink with Symbiotically Joined Heat Pipe. Heat Transfer Engineering, 2021, 42, 23-40.	1.2	19

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73	Computation of conjugate heat transfer in the turbulent mixed convection regime in a vertical channel with multiple heat sources. Heat and Mass Transfer, 2007, 43, 1063-1074.	1.2	18
74	On the Effect of Non-Raining Parameters in Retrieval of Surface Rain Rate Using TRMM PR and TMI Measurements. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 735-743.	2.3	18
75	Experimental investigation of the inlet condition on jet impingement heat transfer using liquid crystal thermography. Experimental Thermal and Fluid Science, 2017, 80, 363-375.	1.5	18
76	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. International Journal of Thermal Sciences, 2022, 171, 107176.	2.6	18
77	Effect of surface radiation on RBC in cavities heated from below. International Communications in Heat and Mass Transfer, 2010, 37, 1459-1464.	2.9	17
78	ANN based estimation of heat generation from multiple protruding heat sources on a vertical plate under conjugate mixed convection. International Journal of Thermal Sciences, 2011, 50, 532-543.	2.6	17
79	Bayesian estimation of heat flux and thermal diffusivity using liquid crystal thermography. International Journal of Thermal Sciences, 2015, 87, 31-48.	2.6	17
80	Numerical simulation of conjugate, turbulent mixed convection heat transfer in a vertical channel with discrete heat sources. International Communications in Heat and Mass Transfer, 2006, 33, 908-916.	2.9	16
81	Simultaneous Retrieval of Total Hemispherical Emissivity and Specific Heat From Transient Multimode Heat Transfer Experiments. Journal of Heat Transfer, 2008, 130, .	1.2	16
82	A new ensemble-based data assimilation algorithm to improve track prediction of tropical cyclones. Natural Hazards, 2014, 71, 659-682.	1.6	16
83	A non-intrusive technique to determine the spatially varying heat transfer coefficients in a flat plate with flush mounted heat sources. International Journal of Thermal Sciences, 2018, 131, 144-159.	2.6	16
84	Effect of phase change and ambient temperatures on the thermal performance of a solid-liquid phase change material based heat sinks. Journal of Energy Storage, 2020, 30, 101327.	3.9	16
85	On the onset of natural convection in differentially heated shallow fluid layers with internal heat generation. International Journal of Heat and Mass Transfer, 2009, 52, 4254-4263.	2.5	15
86	A heuristic approach to optimal arrangement of multiple heat sources under conjugate natural convection. International Journal of Heat and Mass Transfer, 2010, 53, 431-444.	2.5	15
87	Simultaneous Estimation of Principal Thermal Conductivities of an Anisotropic Composite Medium: An Inverse Analysis. Journal of Heat Transfer, 2013, 135, .	1.2	15
88	Competing impact of anthropogenic emissions and meteorology on the distribution of trace gases over Indian region. Journal of Atmospheric Chemistry, 2016, 73, 363-380.	1.4	15
89	A temperature wall function for turbulent mixed convection from vertical, parallel plate channels. International Journal of Thermal Sciences, 2008, 47, 723-729.	2.6	14
90	A Principal Component Analysis and neural network based non-iterative method for inverse conjugate natural convection. International Journal of Heat and Mass Transfer, 2010, 53, 4684-4695.	2.5	14

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91	Optimal Heat Distribution Among Discrete Protruding Heat Sources in a Vertical Duct: A Combined Numerical and Experimental Study. Journal of Heat Transfer, 2010, 132, .	1.2	14
92	A new PCAâ€ANN algorithm for retrieval of rainfall structure in a precipitating atmosphere. International Journal of Numerical Methods for Heat and Fluid Flow, 2011, 21, 1002-1025.	1.6	14
93	Estimation of local heat transfer coefficient from natural convection experiments using liquid crystal thermography and Bayesian method. Experimental Thermal and Fluid Science, 2018, 97, 458-467.	1.5	14
94	Inverse estimation of number and location of discrete heaters in radiant furnaces using artificial neural networks and genetic algorithm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 226, 127-137.	1.1	14
95	Thermal Performance of a Phase Change Material-Based Heat Sink Subject to Constant and Power Surge Heat Loads: A Numerical Study. Journal of Thermal Science and Engineering Applications, 2021, 13, .	0.8	14
96	Ablation and Aero-thermodynamic Studies on Thermal Protection Systems of Sharp-Nosed Re-entry Vehicles. Journal of Heat Transfer, 2007, 129, 912-916.	1.2	13
97	An Inexpensive Technique to Simultaneously Determine Total Emissivity and Natural Convection Heat Transfer Coefficient from Transient Experiments. Experimental Heat Transfer, 2010, 23, 235-258.	2.3	13
98	Optimization of size and shape of composite heat sinks with phase change materials. Heat and Mass Transfer, 2011, 47, 597-608.	1.2	13
99	Optimal Distribution of Discrete Heat Sources Under Mixed Convectionâ€”A Heuristic Approach. Journal of Heat Transfer, 2014, 136, .	1.2	13
100	Calibration of WRF model parameters using multiobjective adaptive surrogate model-based optimization to improve the prediction of the Indian summer monsoon. Climate Dynamics, 2020, 55, 631-650.	1.7	13
101	Assessment of WRF Model Parameter Sensitivity for Highâ€Intensity Precipitation Events During the Indian Summer Monsoon. Earth and Space Science, 2021, 8, e2020EA001471.	1.1	13
102	Effect of the Inlet Geometry on the Flow and Heat Transfer Characteristics of Three-Dimensional Wall Jets. Journal of Heat Transfer, 2019, 141, .	1.2	13
103	Impact of Cloud Parameterization Schemes on The Simulation of Cyclone <i>Vardah</i> using the WRF Model. Current Science, 2018, 115, 1143.	0.4	13
104	Effect of phase change temperatures and orientation on the thermal performance of a miniaturized PCM heat sink coupled heat pipe. Experimental Heat Transfer, 2023, 36, 665-687.	2.3	13
105	Effect of baffle on convective heat transfer from a heat generating element in a ventilated cavity. Heat and Mass Transfer, 2009, 45, 1069-1082.	1.2	12
106	An Experimental Correlation for Combined Convection and Radiation Between Parallel Vertical Plates. Journal of Heat Transfer, 2004, 126, 849-851.	1.2	11
107	Heat transfer enhancement with discrete heat sources in a metal foam filled vertical channel. International Communications in Heat and Mass Transfer, 2014, 53, 180-184.	2.9	11
108	A Simple Thermal Model for Mixed Convection From Protruding Heat Sources. Heat Transfer Engineering, 2015, 36, 396-407.	1.2	11

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109	Experimental investigation on heat transfer from square jets issuing from perforated nozzles. Heat and Mass Transfer, 2017, 53, 2363-2375.	1.2	11
110	A Markov Chain Monte Carlo-Metropolis Hastings Approach for the Simultaneous Estimation of Heat Generation and Heat Transfer Coefficient from a Teflon Cylinder. Heat Transfer Engineering, 2018, 39, 339-352.	1.2	11
111	Radiative transfer simulations for the MADRAS imager of Megha-Tropiques. Journal of Earth System Science, 2011, 120, 1-17.	0.6	10
112	An experimental study on hydrodynamic and thermal performance of stainless steel wire mesh blocks in a vertical channel. Experimental Thermal and Fluid Science, 2017, 86, 248-256.	1.5	10
113	Heat Transfer Correlations for a Composite PCM Based 72 Pin Fin Heat Sink with Discrete Heating at the Base. INAE Letters, 2017, 2, 65-71.	1.0	10
114	A combined ANN-GA and experimental based technique for the estimation of the unknown heat flux for a conjugate heat transfer problem. Heat and Mass Transfer, 2018, 54, 3185-3197.	1.2	10
115	Numerical Modeling of a Wicked Heat Pipe Using Lumped Parameter Network Incorporating the Marangoni Effect. Heat Transfer Engineering, 2021, 42, 787-801.	1.2	10
116	Combined surface radiation and free convection in cavities. Journal of Thermophysics and Heat Transfer, 1994, 8, 373-376.	0.9	9
117	Natural Convection in L Corners With Surface Radiation and Conduction. Journal of Heat Transfer, 1996, 118, 222-225.	1.2	9
118	Interaction of Surface Radiation and Free Convection in an Enclosure With a Vertical Partition. Journal of Heat Transfer, 1997, 119, 641-645.	1.2	9
119	A correlation for laminar mixed convection from vertical plates using transient experiments. Heat and Mass Transfer, 2008, 44, 1417-1425.	1.2	9
120	A CFD based approach for thermal hydraulic design of main vessel cooling system of pool type fast reactors. Annals of Nuclear Energy, 2013, 57, 269-279.	0.9	9
121	Incorporating engineering intuition for parameter estimation in thermal sciences. Heat and Mass Transfer, 2013, 49, 1771-1785.	1.2	9
122	Conjugate Heat Transfer in Latent Heat Thermal Storage System With Cross Plate Fins. Journal of Heat Transfer, 2015, 137, .	1.2	9
123	Thermodynamic optimization of tubular space radiators. Journal of Thermophysics and Heat Transfer, 1996, 10, 705-707.	0.9	8
124	Interferometric study of interaction of free convection with surface radiation in an L corner. International Journal of Heat and Mass Transfer, 1997, 40, 2941-2947.	2.5	8
125	Determination of temperature wall functions for high Rayleigh number flows using asymptotics: A systematic approach. International Journal of Heat and Mass Transfer, 2007, 50, 3820-3831.	2.5	8
126	A general methodology for treating mixed convection problems using asymptotic computational fluid dynamics (ACFD). International Communications in Heat and Mass Transfer, 2007, 34, 682-691.	2.9	7

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127	CFD Simulations of Thermal and Flow Fields Inside a Desktop Personal Computer Cabin with Multi-core Processors. Engineering Applications of Computational Fluid Mechanics, 2009, 3, 277-288.	1.5	7
128	A Simple Thermal Resistance Model for Open Cell Metal Foams. Journal of Heat Transfer, 2013, 135, .	1.2	7
129	Numerical and Experimental Investigations of Heat Removal Performance of Sodium-to-Air Heat Exchanger Used in Fast Reactors. Heat Transfer Engineering, 2015, 36, 439-451.	1.2	7
130	Heat transfer and optimization studies on layered porous stackings under an imposed pressure drop. International Communications in Heat and Mass Transfer, 2015, 60, 32-36.	2.9	7
131	Experimental investigation on the effect of wire mesh at the nozzle exit on heat transfer from impinging square jets. Experimental Thermal and Fluid Science, 2017, 84, 78-89.	1.5	7
132	Emissivity estimation of spacecraft thermal control surfaces at cryogenic temperatures â€“ a novel experimental approach. Heat and Mass Transfer, 2019, 55, 1465-1476.	1.2	7
133	Evaluation of candidate strategies for the estimation of local heat transfer coefficient from wall jets. Experimental Heat Transfer, 2020, 33, 40-63.	2.3	7
134	A numerical study of natural convection from a localized heat source in the lower plenum of a fast breeder reactor under failed conditions. Heat and Mass Transfer, 2004, 40, 853-858.	1.2	6
135	Multilayer differential discrete ordinate method for inhomogeneous participating media. International Journal of Heat and Mass Transfer, 2008, 51, 2628-2635.	2.5	6
136	A hybrid optimization technique for developing heat transfer correlations based on transient experiments. International Journal of Heat and Mass Transfer, 2009, 52, 1954-1964.	2.5	6
137	Estimation of thermo-physical and transport properties with Bayesian inference using transient liquid crystal thermography experiments. Journal of Physics: Conference Series, 2012, 395, 012082.	0.3	6
138	An artificial neural network based fast radiative transfer model for simulating infrared sounder radiances. Journal of Earth System Science, 2012, 121, 891-901.	0.6	6
139	Non-intrusive measurement of thermal contact conductance at polymer-metal two dimensional annular interface. Heat and Mass Transfer, 2019, 55, 327-340.	1.2	6
140	Assimilation of multi-channel radiances in mesoscale models with an ensemble technique to improve track forecasts of Tropical cyclones. Journal of Earth System Science, 2022, 131, 1.	0.6	6
141	Performance analysis of extended surfaces subjected to fouling. Heat and Mass Transfer, 2001, 37, 499-505.	1.2	5
142	A synergistic approach to parameter estimation in multimode heat transfer. International Communications in Heat and Mass Transfer, 2003, 30, 515-524.	2.9	5
143	Parameter Estimation in a Two-Layer Planar Gray Participating Medium. Journal of Thermophysics and Heat Transfer, 2004, 18, 187-192.	0.9	5
144	Nusselt Number Correlations for Turbulent Natural Convection Flows Using Asymptotic Analysis of the Near-Wall Region. Journal of Heat Transfer, 2007, 129, 1100-1105.	1.2	5

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145	Inverse radiation problem to retrieve hydrometeors from satellite microwave radiances. International Journal of Heat and Mass Transfer, 2008, 51, 1933-1945.	2.5	5
146	Optimum Design of Cross-Flow Shell and Tube Heat Exchangers with Low Fin Tubes. Heat Transfer Engineering, 2008, 29, 864-872.	1.2	5
147	Distributed High Temperature Sensing Using Fiber Bragg Gratings. International Journal of Optomechatronics, 2008, 2, 4-15.	3.3	5
148	Inverse conjugate mixed convection in a vertical substrate with protruding heat sources: a combined experimental and numerical study. Heat and Mass Transfer, 2016, 52, 1243-1254.	1.2	5
149	A methodology to determine boundary conditions from forced convection experiments using liquid crystal thermography. Heat and Mass Transfer, 2017, 53, 519-535.	1.2	5
150	Implementation of SLW model in the radiative heat transfer problems with particles and high temperature gradients. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 1128-1141.	1.6	5
151	Numerical Investigation of Flow and Heat Transfer from Impinging Jets on a Target Surface with Protrusions. Heat Transfer Engineering, 2018, 39, 568-581.	1.2	5
152	A sensitivity study of WRF model microphysics and cumulus parameterization schemes for the simulation of tropical cyclones using GPM radar data. Journal of Earth System Science, 2021, 130, 1.	0.6	5
153	Numerical analysis of a cavity radiator with mutual interaction. Applied Mathematical Modelling, 1996, 20, 476-484.	2.2	4
154	TURBULENT FORCED CONVECTION IN A PARALLEL PLATE CHANNEL WITH NATURAL CONVECTION ON THE OUTSIDE. International Communications in Heat and Mass Transfer, 2004, 31, 1027-1036.	2.9	4
155	Polarized microwave forward model simulations for tropical storm Fanoos. Journal of Earth System Science, 2009, 118, 331-343.	0.6	4
156	A multi-physics ensemble approach for short-term precipitation forecasts at convective permitting scales based on sensitivity experiments over southern parts of peninsular India. Journal of Earth System Science, 2021, 130, 1.	0.6	4
157	Discussion: â€œNatural Convection With Radiation in a Cavity With Open Top Endâ€•(Lage, J. L., Lim, J. S., and) Tj ETQq1 1 0.784314 rg	1.2	3
158	A correlation for mixed convection heat transfer from converging, parallel and diverging channels with uniform volumetric heat generating plates. International Communications in Heat and Mass Transfer, 2006, 33, 350-356.	2.9	3
159	A Comparison of Quasi One-Dimensional and Two-Dimensional Ablation Models for Subliming Ablators. Heat Transfer Engineering, 2009, 30, 229-236.	1.2	3
160	Thermosyphon assisted melting of PCM inside a rectangular enclosure:A synergistic numerical approach. Journal of Physics: Conference Series, 2016, 745, 032130.	0.3	3
161	Estimation of spatially varying heat transfer coefficient from a flat plate with flush mounted heat sources using Bayesian inference. Journal of Physics: Conference Series, 2016, 745, 032094.	0.3	3
162	Retrieval of humidity and temperature profiles over the oceans from INSAT 3D satellite radiances. Journal of Earth System Science, 2016, 125, 217-230.	0.6	3

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163	A BAYESIAN ALGORITHM FOR THE RETRIEVAL OF GEOPHYSICAL PARAMETER IN THE ATMOSPHERE. , 2006, , .		3
164	Estimation of Microwave Radiation Intensity from a Multilayered Cloud Model. Journal of Thermophysics and Heat Transfer, 2005, 19, 343-352.	0.9	2
165	Retrieval of hydrometeors from microwave radiances with a polarized radiative transfer model. Journal of Earth System Science, 2010, 119, 97-115.	0.6	2
166	Application of transient experimental techniques for developing a heat transfer correlation for mixed convection in porous medium. Inverse Problems in Science and Engineering, 2010, 18, 1129-1150.	1.2	2
167	Joint Conductance Effects on Estimation of Effective Thermal Conductivities of Anisotropic Composites. Journal of Thermophysics and Heat Transfer, 2014, 28, 553-560.	0.9	2
168	Numerical investigations of small diameter two-phase closed thermosyphon. Journal of Physics: Conference Series, 2016, 745, 032122.	0.3	2
169	Impact of horizontal and vertical localization scales on microwave sounder SAPHIR radiance assimilation. Proceedings of SPIE, 2016, , .	0.8	2
170	Numerical modeling of FBR safety grade decay heat removal system and its validation. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2018, 10, 132-145.	0.7	2
171	Evaluation of candidate approaches in the study of conjugate convection from a fin array. International Communications in Heat and Mass Transfer, 2005, 32, 529-538.	2.9	1
172	What is the information content of TRMM precipitation radar for determining radiometer observations and vice versa?. , 2010, , .		1
173	Experimental investigation of flow assisted mixed convection in high porosity foams. , 2010, , .		1
174	Characterization of sodium flow over hexagonal fuel subassemblies. International Communications in Heat and Mass Transfer, 2011, 38, 928-937.	2.9	1
175	Retrieval of rainfall from the MADRAS microwave imager of Megha-Tropiques. , 2011, , .		1
176	Application of Hybrid Monte Carlo Algorithm in Heat Transfer. Journal of Heat Transfer, 2017, 139, .	1.2	1
177	Parameter Calibration to Improve the Prediction of Tropical Cyclones over the Bay of Bengal using Machine Learning-based Multi-Objective Optimization. Journal of Applied Meteorology and Climatology, 2022, , .	0.6	1
178	Systematic approach to estimate non-uniform heat generation rate in heat transfer problems using liquid crystal thermography and inverse methodology. Experimental Heat Transfer, 2023, 36, 473-508.	2.3	1
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