

# Rajesh Kanna P

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67  
papers

749  
citations

16  
h-index

25  
g-index

72  
ext. papers

876  
ext. citations

2.7  
avg, IF

4.44  
L-index

#	Paper	IF	Citations
67	An experimental inquisition of waste heat recovery in electronic component system using concentric tube heat pipe heat exchanger with different working fluids under gravity assistance. <i>Microprocessors and Microsystems</i> , <b>2021</b> , 83, 104033	2.4	7
66	Heat transfer behaviour on influence of an adiabatic section on concentric tube shell assisted heat pipe heat exchanger. <i>International Journal of Ambient Energy</i> , <b>2021</b> , 42, 672-681	2	1
65	Enhancement of heat transfer in SAH with polygonal and trapezoidal shape of the rib using CFD. <i>Energy</i> , <b>2021</b> , 234, 121154	7.9	4
64	A new method of acquiring prerequisites of recirculation and vortex flow in sudden expansion solar water collector using vortex generator to augment heat transfer. <i>International Journal of Thermal Sciences</i> , <b>2020</b> , 153, 106346	4.1	3
63	A Numerical Investigation of Flow and Heat Transfer of Laminar Multiple Slot Jets Impinging on Multiple Protruding Heat Sources. <i>Heat Transfer Engineering</i> , <b>2020</b> , 41, 65-83	1.7	4
62	A new method of enhancing heat transfer in sudden expansion channel using vortex generators with toe-out and toe-in configurations by acquiring prerequisites of recirculation and secondary vortex flow. <i>Journal of Mechanical Science and Technology</i> , <b>2019</b> , 33, 3913-3925	1.6	3
61	Numerical Study of Flow Field Investigation of Air Jet Impingement on Different Solid Block Size. <i>Lecture Notes in Mechanical Engineering</i> , <b>2019</b> , 343-351	0.4	
60	Investigation of forced convective heat transfer from a block located staggered cavity with parallel and anti-parallel wall motion. <i>Thermal Science</i> , <b>2019</b> , 23, 1281-1288	1.2	
59	Three-dimensional investigation of the effects of external magnetic field inclination on laminar natural convection heat transfer in CNT-water nanofluid filled cavity. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 252, 454-468	6	69
58	Heat Transfer in a Loop Heat Pipe using Diamond-H <sub>2</sub> O Nanofluid. <i>Heat Transfer Engineering</i> , <b>2018</b> , 39, 1117-1131	1.7	9
57	NUMERICAL INVESTIGATION OF CONJUGATE HEAT TRANSFER FROM LAMINAR WALL JET FLOW OVER A SHALLOW CAVITY. <i>Heat Transfer Research</i> , <b>2018</b> , 49, 1151-1170	3.9	3
56	Numerical study of air convection in a rectangular enclosure with two isothermal blocks and oscillating bottom wall temperature. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2018</b> , 28, 103-117	4.5	2
55	A numerical simulation on the flow field and the heat transfer of water jet impingement on a solid block. <i>International Journal of Computer Aided Engineering and Technology</i> , <b>2018</b> , 10, 76	0.5	1
54	Effect of baffle shape in heat transfer for jet impingement on a solid block. <i>MATEC Web of Conferences</i> , <b>2018</b> , 240, 01025	0.3	
53	A Performance Evaluation of a Solar Air Heater Using Different Shaped Ribs Mounted on the Absorber Plate. <i>Energies</i> , <b>2018</b> , 11, 3104	3.1	9
52	Numerical Investigation of Forced Convection Conjugate Heat Transfer from Offset Square Cylinders Placed in a Confined Channel Covered by Solid Wall. <i>Heat Transfer - Asian Research</i> , <b>2017</b> , 46, 91-110	2.8	1
51	Second law analysis of natural convection in a CNT-water nanofluid filled inclined 3D cavity with incorporated Ahmed body. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 130, 399-415	5.5	55

50	Natural convection on an open square cavity containing diagonally placed heaters and adiabatic square block and filled with hybrid nanofluid of nanodiamond - cobalt oxide/water. <i>International Communications in Heat and Mass Transfer</i> , <b>2017</b> , 81, 64-71	5.8	39
49	Laminar natural convection of Copper - Titania/Water hybrid nanofluid in an open ended C - shaped enclosure with an isothermal block. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 246, 251-258	6	30
48	Numerical Simulation of Steady Flow and Forced Convection Heat Transfer from Two Offset Square Cylinders Placed in a Channel. <i>Arabian Journal for Science and Engineering</i> , <b>2017</b> , 42, 1795-1815	2.5	2
47	Numerical investigation of flow and heat transfer from a block placed in a cavity subject to different inlet conditions. <i>Progress in Computational Fluid Dynamics</i> , <b>2017</b> , 17, 385	0.7	
46	Three-dimensional natural convection of CNT-water nanofluid confined in an inclined enclosure with Ahmed body. <i>Journal of Thermal Science and Technology</i> , <b>2017</b> , 12, JTST0002-JTST0002	0.6	13
45	Numerical investigation of forced convection heat transfer from square cylinders in a channel covered by solid wall: Conjugate situation. <i>FME Transactions</i> , <b>2017</b> , 45, 16-25	1.6	2
44	Experimental investigation on heat transfer enhancement from a channel with square blocks and identification of most influencing parameters using Taguchi approach. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2016</b> , 230, 3253-3266	1.3	1
43	Natural convection and entropy generation in a cubical cavity with twin adiabatic blocks filled by aluminum oxide/water nanofluid. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2016</b> , 70, 242-259	2.3	35
42	Effective utilization of MWCNT/water nanofluid for the enhancement of laminar natural convection inside the open square enclosure. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2016</b> , 65, 331-340	5.3	19
41	Numerical Investigations on Effect of Obstacle in an Incompressible Laminar Wall Jet Flow. <i>Applied Mechanics and Materials</i> , <b>2016</b> , 852, 747-753	0.3	
40	Natural convection heat transfer enhancement using nanofluid and time-variant temperature on the square enclosure with diagonally constructed twin adiabatic blocks. <i>Applied Thermal Engineering</i> , <b>2016</b> , 92, 219-235	5.8	21
39	Laminar natural convection inside the open, forward-facing stepped rectangular enclosure with a partition and time-variant temperature on the stepped top wall. <i>International Communications in Heat and Mass Transfer</i> , <b>2015</b> , 67, 124-136	5.8	7
38	Analysis of the Fluid Flow in 3D Symmetric Enlarged Channel. <i>Applied Mechanics and Materials</i> , <b>2015</b> , 813-814, 652-657	0.3	
37	Numerical Investigation on Visualizations of Confined Air Flow in a Slot Jet Inside a Rectangular Channel. <i>Applied Mechanics and Materials</i> , <b>2015</b> , 813-814, 736-741	0.3	
36	Numerical Investigation of Forced Convection Heat Transfer from Offset Square Cylinders Placed in a Three Dimensional Confined Channel. <i>Applied Mechanics and Materials</i> , <b>2015</b> , 813-814, 729-735	0.3	2
35	Conjugate Heat Transfer from Sudden Expansion Using Nanofluid. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2015</b> , 67, 75-99	2.3	8
34	Experimental Investigation on Heat Transfer Enhancement from a Channel Mounted with Staggered Blocks. <i>Arabian Journal for Science and Engineering</i> , <b>2015</b> , 40, 1123-1139		4
33	Natural Convection Inside the Open Square Enclosure with Diagonally Placed Twin Square Blocks. <i>Arabian Journal for Science and Engineering</i> , <b>2014</b> , 39, 8265-8277		5

32	Numerical Investigation of Mixed Convection Heat Transfer from Block Mounted on a Cavity. <i>Arabian Journal for Science and Engineering</i> , <b>2014</b> , 39, 9187-9204		1
31	Numerical Investigation on Natural Convection Inside the Side Ventilated Square Enclosure with Vertical Mid-Partition. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 66, 1389-1418	2.3	7
30	Three-Dimensional Study of Natural Convection in a Horizontal Channel With Discrete Heaters on One of Its Vertical Walls. <i>Heat Transfer Engineering</i> , <b>2014</b> , 35, 1235-1245	1.7	5
29	Buoyancy enhanced natural convection inside the ventilated square enclosure with a partition and an overhanging transverse baffle. <i>International Communications in Heat and Mass Transfer</i> , <b>2014</b> , 56, 1215-132	5.8	16
28	Mixed Convection Over a Backward-Facing Step in a Vertical Duct Using Nanofluids Buoyancy Opposing Case. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2014</b> , 11, 860-872	0.3	26
27	Numerical Investigation on the Fluid Flow Characteristics of a Laminar Slot Jet on Solid Block Mounted on a Horizontal Surface. <i>Arabian Journal for Science and Engineering</i> , <b>2014</b> , 39, 8077-8098		3
26	Numerical Simulation of Two Dimensional Laminar Wall Jet Flow over Solid Obstacle. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 592-594, 1935-1939	0.3	1
25	Selected Papers Presented at the First International Conference on Thermal Energy and Environment. <i>Heat Transfer Engineering</i> , <b>2014</b> , 35, 1225-1226	1.7	
24	Study of conjugate natural convection between vertical coaxial rectangular cylinders. <i>International Communications in Heat and Mass Transfer</i> , <b>2012</b> , 39, 904-912	5.8	3
23	Numerical Investigation of Heat Transfer from a Two-Dimensional Sudden Expansion Flow Using Nanofluids. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2012</b> , 61, 527-546	2.3	10
22	Numerical Investigation on Laminar Flow Due to Sudden Expansion Using Nanofluid. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2012</b> , 9, 2217-2227	0.3	7
21	Jet impingement cooling of a horizontal surface in an unconfined porous medium: Mixed convection regime. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 4127-4134	4.9	11
20	Mixed convection on jet impingement cooling of a constant heat flux horizontal porous layer. <i>International Journal of Thermal Sciences</i> , <b>2010</b> , 49, 1238-1246	4.1	23
19	A CFD study of the interaction of oscillatory flows with a pair of side-by-side cylinders. <i>Journal of Fluids and Structures</i> , <b>2010</b> , 26, 626-643	3.1	15
18	Jet impingement cooling of a constant heat flux horizontal surface in a confined porous medium: Mixed convection regime. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 5847-5855	4.9	19
17	Effect of Geometry on the Conjugate Heat Transfer of Wall Jet Flow Over a Backward-Facing Step. <i>Journal of Heat Transfer</i> , <b>2009</b> , 131,	1.8	6
16	Numerical study of mixed convection in a two-dimensional laminar incompressible offset jet flow. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 1023-1035	4.9	6
15	Flow and heat transfer in a driven square cavity with double-sided oscillating lids in anti-phase. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 3009-3023	4.9	24

14	Heat transfer study of two-dimensional laminar incompressible offset jet flows. <i>International Journal of Thermal Sciences</i> , <b>2008</b> , 47, 1620-1629	4.1	9
13	Numerical Simulation of Mixed Convection in a Two-Dimensional Laminar Plane Wall Jet Flow. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2007</b> , 52, 621-642	2.3	6
12	Numerical simulation of two-dimensional laminar slot-jet impingement flows confined by a parallel wall. <i>International Journal for Numerical Methods in Fluids</i> , <b>2007</b> , 55, 965-983	1.9	18
11	Transient study of buoyancy-assisted mixed convection in laminar plane wall jet flow. <i>International Communications in Heat and Mass Transfer</i> , <b>2007</b> , 34, 809-819	5.8	2
10	Application of an ADI scheme for steady and periodic solutions in a lid-driven cavity problem. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2007</b> , 17, 799-822	4.5	16
9	Conjugate Heat Transfer Study of a Two-Dimensional Laminar Incompressible Wall Jet Over a Backward-Facing Step. <i>Journal of Heat Transfer</i> , <b>2007</b> , 129, 220-231	1.8	6
8	Conjugate heat transfer study of backward-facing step flow $\square$ benchmark problem. <i>International Journal of Heat and Mass Transfer</i> , <b>2006</b> , 49, 3929-3941	4.9	26
7	A short note on the reattachment length for BFS problem. <i>International Journal for Numerical Methods in Fluids</i> , <b>2006</b> , 50, 683-692	1.9	9
6	A short note on the entrainment and exit boundary conditions. <i>International Journal for Numerical Methods in Fluids</i> , <b>2006</b> , 50, 973-985	1.9	8
5	Numerical Simulation of Two-Dimensional Laminar Incompressible Wall Jet Flow Under Backward-Facing Step. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2006</b> , 128, 1023-1035	2.1	9
4	Heat Transfer Study of Two-Dimensional Laminar Incompressible Wall Jet over Backward-Facing Step. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2006</b> , 50, 165-187	2.3	17
3	Conjugate Heat Transfer Study of Two-Dimensional Laminar Incompressible Offset Jet Flows. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2005</b> , 48, 671-691	2.3	22
2	Conjugate forced convection heat transfer from a flat plate by laminar plane wall jet flow. <i>International Journal of Heat and Mass Transfer</i> , <b>2005</b> , 48, 2896-2910	4.9	44
1	Numerical simulation of two-dimensional laminar incompressible offset jet flows. <i>International Journal for Numerical Methods in Fluids</i> , <b>2005</b> , 49, 439-464	1.9	14