

Rajesh Kanna P

List of Publications by Year in descending order

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71
papers

1,012
citations

394286

19
h-index

477173

29
g-index

72
all docs

72
docs citations

72
times ranked

659
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2018, 252, 454-468.	2.3	98
2	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> , 2017, 130, 399-415.	3.6	62
3	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> , 2017, 246, 251-258.	2.3	50
4	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> , 2017, 81, 64-71.	2.9	49
5	Conjugate forced convection heat transfer from a flat plate by laminar plane wall jet flow. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 2896-2910.	2.5	48
6	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> , 2016, 70, 242-259.	1.2	40
7	Mixed Convection Over a Backward-Facing Step in a Vertical Duct Using Nanofluids Buoyancy Opposing Case. <i>Journal of Computational and Theoretical Nanoscience</i> , 2014, 11, 860-872.	0.4	36
8	Conjugate heat transfer study of backward-facing step flow – A benchmark problem. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 3929-3941.	2.5	32
9	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> , 2016, 92, 219-235.	3.0	32
10	Mixed convection on jet impingement cooling of a constant heat flux horizontal porous layer. <i>International Journal of Thermal Sciences</i> , 2010, 49, 1238-1246.	2.6	29
11	Conjugate Heat Transfer Study of Two-Dimensional Laminar Incompressible Offset Jet Flows. <i>Numerical Heat Transfer; Part A: Applications</i> , 2005, 48, 671-691.	1.2	27
12	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> , 2009, 52, 3009-3023.	2.5	26
13	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> , 2010, 53, 5847-5855.	2.5	24
14	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> , 2016, 65, 331-340.	2.7	24
15	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> , 2021, 83, 104033.	1.8	24
16	Heat Transfer Study of Two-Dimensional Laminar Incompressible Wall Jet over Backward-Facing Step. <i>Numerical Heat Transfer; Part A: Applications</i> , 2006, 50, 165-187.	1.2	21
17	A CFD study of the interaction of oscillatory flows with a pair of side-by-side cylinders. <i>Journal of Fluids and Structures</i> , 2010, 26, 626-643.	1.5	21
18	Enhancement of heat transfer in SAH with polygonal and trapezoidal shape of the rib using CFD. <i>Energy</i> , 2021, 234, 121154.	4.5	21

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19	Numerical simulation of two-dimensional laminar slot-jet impingement flows confined by a parallel wall. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 55, 965-983.	0.9	20
20	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> , 2007, 17, 799-822.	1.6	19
21	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> , 2014, 56, 121-132.	2.9	18
22	A Performance Evaluation of a Solar Air Heater Using Different Shaped Ribs Mounted on the Absorber Plate—A Review. <i>Energies</i> , 2018, 11, 3104.	1.6	18
23	Numerical simulation of two-dimensional laminar incompressible offset jet flows. <i>International Journal for Numerical Methods in Fluids</i> , 2005, 49, 439-464.	0.9	16
24	Jet impingement cooling of a horizontal surface in an unconfined porous medium: Mixed convection regime. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 4127-4134.	2.5	14
25	Conjugate Heat Transfer from Sudden Expansion Using Nanofluid. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 67, 75-99.	1.2	14
26	Numerical Investigation of Heat Transfer from a Two-Dimensional Sudden Expansion Flow Using Nanofluids. <i>Numerical Heat Transfer; Part A: Applications</i> , 2012, 61, 527-546.	1.2	13
27	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> , 2015, 67, 124-136.	2.9	13
28	Three-dimensional natural convection of CNT-water nanofluid confined in an inclined enclosure with Ahmed body. <i>Journal of Thermal Science and Technology</i> , 2017, 12, JTST0002-JTST0002.	0.6	13
29	Heat Transfer in a Loop Heat Pipe using Diamond-H ₂ O Nanofluid. <i>Heat Transfer Engineering</i> , 2018, 39, 1117-1131.	1.2	12
30	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> , 2020, 153, 106346.	2.6	12
31	A short note on the reattachment length for BFS problem. <i>International Journal for Numerical Methods in Fluids</i> , 2006, 50, 683-692.	0.9	10
32	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> , 2021, 42, 672-681.	1.4	10
33	Numerical Simulation of Two-Dimensional Laminar Incompressible Wall Jet Flow Under Backward-Facing Step. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2006, 128, 1023-1035.	0.8	9
34	Conjugate Heat Transfer Study of a Two-Dimensional Laminar Incompressible Wall Jet Over a Backward-Facing Step. <i>Journal of Heat Transfer</i> , 2007, 129, 220-231.	1.2	9
35	Numerical Simulation of Mixed Convection in a Two-Dimensional Laminar Plane Wall Jet Flow. <i>Numerical Heat Transfer; Part A: Applications</i> , 2007, 52, 621-642.	1.2	9
36	Heat transfer study of two-dimensional laminar incompressible offset jet flows. <i>International Journal of Thermal Sciences</i> , 2008, 47, 1620-1629.	2.6	9

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37	Effect of Geometry on the Conjugate Heat Transfer of Wall Jet Flow Over a Backward-Facing Step. <i>Journal of Heat Transfer</i> , 2009, 131, .	1.2	9
38	Numerical study of mixed convection in a two-dimensional laminar incompressible offset jet flow. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 1023-1035.	2.5	9
39	A Numerical Investigation of Flow and Heat Transfer of Laminar Multiple Slot Jets Impinging on Multiple Protruding Heat Sources. <i>Heat Transfer Engineering</i> , 2020, 41, 65-83.	1.2	9
40	A short note on the entrainment and exit boundary conditions. <i>International Journal for Numerical Methods in Fluids</i> , 2006, 50, 973-985.	0.9	8
41	Natural Convection Inside the Open Square Enclosure with Diagonally Placed Twin Square Blocks. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 8265-8277.	1.1	8
42	Numerical Investigation on Natural Convection Inside the Side Ventilated Square Enclosure with Vertical Mid-Partition. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 66, 1389-1418.	1.2	8
43	Numerical Investigation on Laminar Flow Due to Sudden Expansion Using Nanofluid. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012, 9, 2217-2227.	0.4	7
44	Three-Dimensional Study of Natural Convection in a Horizontal Channel With Discrete Heaters on One of Its Vertical Walls. <i>Heat Transfer Engineering</i> , 2014, 35, 1235-1245.	1.2	6
45	Study of conjugate natural convection between vertical coaxial rectangular cylinders. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 904-912.	2.9	5
46	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> , 2014, 39, 8077-8098.	1.1	5
47	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> , 2019, 33, 3913-3925.	0.7	5
48	Experimental Investigation on Heat Transfer Enhancement from a Channel Mounted with Staggered Blocks. <i>Arabian Journal for Science and Engineering</i> , 2015, 40, 1123-1139.	1.1	4
49	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> , 2017, 42, 1795-1815.	1.7	4
50	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> , 2018, 28, 103-117.	1.6	3
51	NUMERICAL INVESTIGATION OF CONJUGATE HEAT TRANSFER FROM LAMINAR WALL JET FLOW OVER A SHALLOW CAVITY. <i>Heat Transfer Research</i> , 2018, 49, 1151-1170.	0.9	3
52	Numerical investigation of forced convection heat transfer from square cylinders in a channel covered by solid wall: Conjugate situation. <i>FME Transactions</i> , 2017, 45, 16-25.	0.7	3
53	Transient study of buoyancy-assisted mixed convection in laminar plane wall jet flow. <i>International Communications in Heat and Mass Transfer</i> , 2007, 34, 809-819.	2.9	2
54	Numerical Simulation of Two Dimensional Laminar Wall Jet Flow over Solid Obstacle. <i>Applied Mechanics and Materials</i> , 0, 592-594, 1935-1939.	0.2	2

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55	Numerical Investigation of Mixed Convection Heat Transfer from Block Mounted on a Cavity. Arabian Journal for Science and Engineering, 2014, 39, 9187-9204.	1.1	2
56	Numerical Investigation of Forced Convection Heat Transfer from Offset Square Cylinders Placed in a Three Dimensional Confined Channel. Applied Mechanics and Materials, 2015, 813-814, 729-735.	0.2	2
57	Numerical Investigation of Forced Convection Conjugate Heat Transfer from Offset Square Cylinders Placed in a Confined Channel Covered by Solid Wall. Heat Transfer - Asian Research, 2017, 46, 91-110.	2.8	2
58	Experimental investigation on heat transfer enhancement from a channel with square blocks and identification of most influencing parameters using Taguchi approach. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 3253-3266.	1.1	1
59	A numerical simulation on the flow field and the heat transfer of water jet impingement on a solid block. International Journal of Computer Aided Engineering and Technology, 2018, 10, 76.	0.1	1
60	Three dimensional numerical investigation of forced convection heat transfer from offset square cylinders placed in a confined channel. International Journal of Computer Aided Engineering and Technology, 2018, 10, 141.	0.1	1
61	EFFECT OF MAGNETIC FIELD INCLINATION ON MAGNETO-CONVECTIVE INDUCED IRREVERSIBILITIES IN A CNT-WATER NANOFLUID FILLED CUBIC CAVITY. Frontiers in Heat and Mass Transfer, 0, 8, .	0.1	1
62	Numerical investigation on laminar flow through a channel with staggered square blocks. , 2014, , .		0
63	Selected Papers Presented at the First International Conference on Thermal Energy and Environment. Heat Transfer Engineering, 2014, 35, 1225-1226.	1.2	0
64	Analysis of the Fluid Flow in 3D Symmetric Enlarged Channel. Applied Mechanics and Materials, 2015, 813-814, 652-657.	0.2	0
65	Numerical Investigation on Visualizations of Confined Air Flow in a Slot Jet Inside a Rectangular Channel. Applied Mechanics and Materials, 2015, 813-814, 736-741.	0.2	0
66	Numerical Investigations on Effect of Obstacle in an Incompressible Laminar Wall Jet Flow. Applied Mechanics and Materials, 2016, 852, 747-753.	0.2	0
67	Numerical investigation of flow and heat transfer from a block placed in a cavity subject to different inlet conditions. Progress in Computational Fluid Dynamics, 2017, 17, 385.	0.1	0
68	Selected Papers from the 9th International Conference on Computational Heat and Mass Transfer (ICCHMT2016). Heat Transfer Engineering, 2018, 39, 1101-1102.	1.2	0
69	Effect of baffle shape in heat transfer for jet impingement on a solid block. MATEC Web of Conferences, 2018, 240, 01025.	0.1	0
70	A numerical simulation on the flow field and the heat transfer of water jet impingement on a solid block. International Journal of Computer Aided Engineering and Technology, 2018, 10, 76.	0.1	0
71	Investigation of forced convective heat transfer from a block located staggered cavity with parallel and anti-parallel wall motion. Thermal Science, 2019, 23, 1281-1288.	0.5	0