

# Ravindra D Jilte

## List of Publications by Year in descending order

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44  
papers

1,605  
citations

331670

21  
h-index

302126

39  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1098  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel battery thermal management system using nano-enhanced phase change materials. Energy, 2021, 219, 119564.	8.8	263
2	Battery thermal management system employing phase change material with cell-to-cell air cooling. Applied Thermal Engineering, 2019, 161, 114199.	6.0	176
3	Comparing various machine learning approaches in modeling the dynamic viscosity of CuO/water nanofluid. Journal of Thermal Analysis and Calorimetry, 2020, 139, 2585-2599.	3.6	142
4	Cooling performance of nanofluid submerged vs. nanofluid circulated battery thermal management systems. Journal of Cleaner Production, 2019, 240, 118131.	9.3	112
5	Nusselt number analysis from a battery pack cooled by different fluids and multiple back-propagation modelling using feed-forward networks. International Journal of Thermal Sciences, 2021, 161, 106738.	4.9	72
6	Thermal performance of a novel confined flow Li-ion battery module. Applied Thermal Engineering, 2019, 146, 1-11.	6.0	65
7	Battery thermal management: An optimization study of parallelized conjugate numerical analysis using Cuckoo search and Artificial bee colony algorithm. International Journal of Heat and Mass Transfer, 2021, 166, 120798.	4.8	65
8	Natural Convection and Radiation Heat Loss from Open Cavities of Different Shapes and Sizes Used with Dish Concentrator. Mechanical Engineering Research, 2013, 3, 25.	0.2	63
9	Applicability of connectionist methods to predict dynamic viscosity of silver/water nanofluid by using ANN-MLP, MARS and MPR algorithms. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 220-228.	3.1	55
10	Status of carbon capture and storage in India's coal fired power plants: A critical review. Environmental Technology and Innovation, 2019, 13, 94-103.	6.1	51
11	Investigation on Convective Heat Losses from Solar Cavities under Wind Conditions. Energy Procedia, 2014, 57, 437-446.	1.8	48
12	Numerical investigation on cooling performance of Li-ion battery thermal management system at high galvanostatic discharge. Engineering Science and Technology, an International Journal, 2018, 21, 957-969.	3.2	46
13	Hybrid cooling of cylindrical battery with liquid channels in phase change material. International Journal of Energy Research, 2021, 45, 11065-11083.	4.5	45
14	Optimization of Thermal and Structural Design in Lithium-Ion Batteries to Obtain Energy Efficient Battery Thermal Management System (BTMS): A Critical Review. Archives of Computational Methods in Engineering, 2022, 29, 129-194.	10.2	44
15	Investigation and back-propagation modeling of base pressure at sonic and supersonic Mach numbers. Physics of Fluids, 2020, 32, .	4.0	41
16	Energy and exergy analyses and thermo-economic optimization of geothermal heat pump for domestic water heating. International Journal of Low-Carbon Technologies, 2019, 14, 108-121.	2.6	29
17	Applications of nanofluids in geothermal: A review. Mathematical Modelling of Engineering Problems, 2018, 5, 281-285.	0.5	29
18	A review on phase change materials for different applications. Materials Today: Proceedings, 2021, 46, 10980-10986.	1.8	25

#	ARTICLE	IF	CITATIONS
19	A study on thermohydraulic characteristics of fluid flow through microchannels. Journal of Thermal Analysis and Calorimetry, 2020, 140, 1-32.	3.6	24
20	A review on passive methods for thermal performance enhancement in parabolic trough solar collectors. International Journal of Energy Research, 2021, 45, 4932-4966.	4.5	23
21	A review on the solar applications of thermosyphons. Mathematical Modelling of Engineering Problems, 2018, 5, 275-280.	0.5	23
22	Cooling Performance of a Novel Circulatory Flow Concentric Multi-Channel Heat Sink with Nanofluids. Nanomaterials, 2020, 10, 647.	4.1	22
23	A simulation model for thermal performance prediction of a coal-fired power plant. International Journal of Low-Carbon Technologies, 2019, 14, 122-134.	2.6	19
24	Economic and exergoeconomic investigation of 660MW coal-fired power plant. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1121-1135.	3.6	19
25	Thermal modelling and characteristic evaluation of electric vehicle battery system. Case Studies in Thermal Engineering, 2021, 26, 101058.	5.7	16
26	Exergy and exergo-environmental analysis of a 660MW supercritical coal-fired power plant. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1005-1018.	3.6	14
27	A Simulation Model to Predict Coal-Fired Power Plant Production Rate Using Artificial Neural Network Tool. Advances in Intelligent Systems and Computing, 2020, , 150-160.	0.6	12
28	Thermodynamic modeling and performance evaluation of a supercritical coal-fired power plant situated in Western India. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-19.	2.3	10
29	Solar flux distribution study in heat pipe cavity receiver integrated with biomass gasifier. International Journal of Energy Research, 2020, 44, 7698-7712.	4.5	10
30	Experimental Investigation on Heat Losses From Differentially Heated Cylindrical Cavity Receiver Used in Paraboloid Concentrator. Journal of Solar Energy Engineering, Transactions of the ASME, 2017, 139, .	1.8	8
31	Temperature Distribution of a Workpiece in EDM Process. Materials Today: Proceedings, 2018, 5, 28480-28488.	1.8	6
32	Three-dimensional CFD study on heat dissipation in cylindrical lithium-ion battery module. Materials Today: Proceedings, 2021, 46, 10964-10968.	1.8	6
33	Numerical analysis and machine learning for battery thermal performance cooled with different fluids. International Journal of Energy Research, 2022, 46, 21452-21466.	4.5	6
34	Study of Performance Enhancement of Single and Double Pass Solar Air Heater with Change in Surface Roughness. Journal of Physics: Conference Series, 2020, 1531, 012091.	0.4	3
35	Numerical Investigation on Trapezoidal Cavity Receiver Used In LFR with Water Flow in Absorber Tubes. IOP Conference Series: Materials Science and Engineering, 2017, 187, 012026.	0.6	2
36	Thermal Stress Analysis of XW-42 Steel Workpiece Using Finite Element Modeling. Materials Today: Proceedings, 2018, 5, 28470-28479.	1.8	2

#	ARTICLE	IF	CITATIONS
37	Performance evaluation of ground heat exchanger using novel spirally corrugated pipe geometryâ€™A CFD approach. AIP Conference Proceedings, 2020, , .	0.4	2
38	Technical and economical optimization of CHP systems by using gas turbine and energy recovery system. Mathematical Modelling of Engineering Problems, 2018, 5, 286-292.	0.5	2
39	Electricity alternative for e-rickshaws: an approach towards green city. International Journal of Intelligent Enterprise, 2018, 5, 333.	0.2	1
40	Steady-State Modelling and Validation of a Thermal Power Plant. Lecture Notes in Mechanical Engineering, 2019, , 511-519.	0.4	1
41	Analysis of thermal performance and heat transfer characteristics of discrete w-shaped ribs in a double pass solar air heater. AIP Conference Proceedings, 2020, , .	0.4	1
42	Numerical study on cooling of prismatic lithium-ion battery module. Materials Today: Proceedings, 2021, 46, 10975-10979.	1.8	1
43	Numerical analysis of synthetic fluids in three-dimensional trapezoidal cavity used for CLFR plant. Materials Today: Proceedings, 2019, 16, 413-420.	1.8	0
44	Optical and Thermal Analysis of STCR Cavity Subjected Under Flow and no Flow Conditions. Lecture Notes in Mechanical Engineering, 2022, , 219-230.	0.4	0