M Dahari

List of Publications by Year
in descending order

117 papers	7,805 citations	61857 43 h-index	51492 86 g-index
119 all docs	119 docs citations	119 times ranked	5301 citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the current progress of metal hydrides material for solid-state hydrogen storage applications. International Journal of Hydrogen Energy, 2016, 41, 12108-12126.	3.8	789
2	Thermal conductivity of Cu/TiO2â€"water/EG hybrid nanofluid: Experimental data and modeling using artificial neural network and correlation. International Communications in Heat and Mass Transfer, 2015, 66, 100-104.	2.9	336
3	Viscosity of nanofluids: A review of recent experimental studies. International Communications in Heat and Mass Transfer, 2016, 73, 114-123.	2.9	274
4	Graphene nanoplateletsâ€"silver hybrid nanofluids for enhanced heat transfer. Energy Conversion and Management, 2015, 100, 419-428.	4.4	273
5	Investigation of nanofluid mixed convection in a shallow cavity using a two-phase mixture model. International Journal of Thermal Sciences, 2014, 75, 204-220.	2.6	263
6	A comprehensive review on energy efficient CO_2 breakthrough technologies for sustainable green iron and steel manufacturing. Renewable and Sustainable Energy Reviews, 2015, 50, 594-614.	8.2	223
7	Investigation of rib's height effect on heat transfer and flow parameters of laminar waterâ€"Al_2O_3 nanofluid in a rib-microchannel. Applied Mathematics and Computation, 2016, 290, 135-153.	1.4	217
8	Effects of temperature and concentration on rheological behavior of MWCNTs/SiO_2 (20â€"80)-SAE40 hybrid nano-lubricant. International Communications in Heat and Mass Transfer, 2016, 76, 133-138.	2.9	203
9	Investigation of heat transfer and pressure drop of a counter flow corrugated plate heat exchanger using MWCNT based nanofluids. International Communications in Heat and Mass Transfer, 2015, 66, 172-179.	2.9	197
10	An experimental study on thermal conductivity and viscosity of nanofluids containing carbon nanotubes. Nanoscale Research Letters, 2014, 9, 151.	3.1	195
11	Experimental study on thermal conductivity of ethylene glycol based nanofluids containing Al_2O_3 nanoparticles. International Journal of Heat and Mass Transfer, 2015, 88, 728-734.	2.5	191
12	Particle size and type effects on heat transfer enhancement of Ferro-nanofluids in a pulsating heat pipe. Powder Technology, 2016, 301, 1218-1226.	2.1	188
13	Investigation of heat transfer performance and friction factor of a counter-flow double-pipe heat exchanger using nitrogen-doped, graphene-based nanofluids. International Communications in Heat and Mass Transfer, 2016, 76, 16-23.	2.9	179
14	A modified two-phase mixture model of nanofluid flow and heat transfer in a 3-D curved microtube. Advanced Powder Technology, 2016, 27, 2175-2185.	2.0	169
15	Experimental study on the effect of inclination angle on heat transfer enhancement of a ferrofluid in a closed loop oscillating heat pipe under magnetic field. Experimental Thermal and Fluid Science, 2016, 74, 265-270.	1.5	166
16	Prediction of dynamic viscosity of a hybrid nano-lubricant by an optimal artificial neural network. International Communications in Heat and Mass Transfer, 2016, 76, 209-214.	2.9	163
17	Study of synthesis, stability and thermo-physical properties of graphene nanoplatelet/platinum hybrid nanofluid. International Communications in Heat and Mass Transfer, 2016, 77, 15-21.	2.9	161
18	Forced convective heat transfer of water/functionalized multi-walled carbon nanotube nanofluids in a microchannel with oscillating heat flux and slip boundary condition. International Communications in Heat and Mass Transfer, 2015, 68, 69-77.	2.9	145

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19	Estimation of thermal conductivity of Al2O3/water (40%)–ethylene glycol (60%) by artificial neural network and correlation using experimental data. International Communications in Heat and Mass Transfer, 2016, 74, 125-128.	2.9	139
20	An experimental study on viscosity of alumina-engine oil: Effects of temperature and nanoparticles concentration. International Communications in Heat and Mass Transfer, 2016, 76, 202-208.	2.9	135
21	Effect of magnetic field on the heat transfer rate of kerosene/Fe2O3 nanofluid in a copper oscillating heat pipe. Experimental Thermal and Fluid Science, 2015, 68, 663-668.	1.5	132
22	Heat transfer and fluid flow of pseudo-plastic nanofluid over a moving permeable plate with viscous dissipation and heat absorption/generation. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1643-1654.	2.0	129
23	Predicting the viscosity of multi-walled carbon nanotubes/water nanofluid by developing an optimal artificial neural network based on experimental data. International Communications in Heat and Mass Transfer, 2016, 77, 49-53.	2.9	128
24	Modeling of thermal conductivity of ZnO-EG using experimental data and ANN methods. International Communications in Heat and Mass Transfer, 2015, 63, 35-40.	2.9	126
25	Performance dependence of thermosyphon on the functionalization approaches: An experimental study on thermo-physical properties of graphene nanoplatelet-based water nanofluids. Energy Conversion and Management, 2015, 92, 322-330.	4.4	123
26	Performance investigation of micro- and nano-sized particle erosion in a 90° elbow using an ANFIS model. Powder Technology, 2015, 284, 336-343.	2.1	117
27	Monitoring the tool wear, surface roughness and chip formation occurrences using multiple sensors in turning. Journal of Manufacturing Systems, 2014, 33, 476-487.	7.6	113
28	Optimization, modeling and accurate prediction of thermal conductivity and dynamic viscosity of stabilized ethylene glycol and water mixture Al 2 O 3 nanofluids by NSGA-II using ANN. International Communications in Heat and Mass Transfer, 2017, 82, 154-160.	2.9	113
29	Experimental investigation and development of new correlations for thermal conductivity of CuO/EG–water nanofluid. International Communications in Heat and Mass Transfer, 2015, 65, 47-51.	2.9	111
30	Application of acoustic emission sensor to investigate the frequency of tool wear and plastic deformation in tool condition monitoring. Measurement: Journal of the International Measurement Confederation, 2016, 92, 208-217.	2.5	111
31	Heat and fluid flow analysis of metal foam embedded in a double-layered sinusoidal heat sink under local thermal non-equilibrium condition using nanofluid. Journal of Thermal Analysis and Calorimetry, 2019, 138, 1461-1476.	2.0	104
32	Experimental investigation of thermo-physical properties, convective heat transfer and pressure drop of functionalized graphene nanoplatelets aqueous nanofluid in a square heated pipe. Energy Conversion and Management, 2016, 114, 38-49.	4.4	93
33	Numerical Study of Entropy Generation due to Coupled Laminar and Turbulent Mixed Convection and Thermal Radiation in an Enclosure Filled with a Semitransparent Medium. Scientific World Journal, The, 2014, 2014, 1-8.	0.8	86
34	Nanofluid based on activated hybrid of biomass carbon/graphene oxide: Synthesis, thermo-physical and electrical properties. International Communications in Heat and Mass Transfer, 2016, 72, 10-15.	2.9	79
35	Heat Transfer and Pressure Drop in Fully Developed Turbulent Flows of Graphene Nanoplatelets–Silver/Water Nanofluids. Fluids, 2016, 1, 20.	0.8	73
36	Comparison of the Finite Volume and Lattice Boltzmann Methods for Solving Natural Convection Heat Transfer Problems inside Cavities and Enclosures. Abstract and Applied Analysis, 2014, 2014, 1-15.	0.3	72

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37	A novel, eco-friendly technique for covalent functionalization of graphene nanoplatelets and the potential of their nanofluids for heat transfer applications. Chemical Physics Letters, 2017, 675, 92-97.	1.2	68
38	Numerical Study of Entropy Generation in a Flowing Nanofluid Used in Micro- and Minichannels. Entropy, 2013, 15, 144-155.	1.1	67
39	Performance Evaluation of Nanofluids in an Inclined Ribbed Microchannel for Electronic Cooling Applications. , 0, , .		58
40	Modeling of commercial proton exchange membrane fuel cell using support vector machine. International Journal of Hydrogen Energy, 2016, 41, 11351-11358.	3.8	58
41	Fiber Bragg Gratings Hydrogen Sensor for Monitoring the Degradation of Transformer Oil. IEEE Sensors Journal, 2016, 16, 2993-2999.	2.4	56
42	Study of environmentally friendly and facile functionalization of graphene nanoplatelet and its application in convective heat transfer. Energy Conversion and Management, 2017, 150, 26-36.	4.4	52
43	A theoretical model to predict gas permeability for slip flow through a porous medium. Applied Thermal Engineering, 2014, 70, 71-76.	3.0	47
44	Evaluation of criteria for CO_2 capture and storage in the iron and steel industry using the 2-tuple DEMATEL technique. Journal of Cleaner Production, 2016, 120, 207-220.	4.6	46
45	Convective heat transfer enhancement with graphene nanoplatelet/platinum hybrid nanofluid. International Communications in Heat and Mass Transfer, 2017, 88, 120-125.	2.9	41
46	Automatic detection of oil palm fruits from UAV images using an improved YOLO model. Visual Computer, 2022, 38, 2341-2355.	2.5	41
47	Thermal analysis of a binary base fluid in pool boiling system of glycolâ€"water alumina nano-suspension. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2453-2462.	2.0	40
48	Experimental study on thermo-physical and rheological properties of stable and green reduced graphene oxide nanofluids: Hydrothermal assisted technique. Journal of Dispersion Science and Technology, 2017, 38, 1302-1310.	1.3	39
49	Thermodynamic and exergoeconomic analyses and optimization of an auxiliary tri-generation system for a ship utilizing exhaust gases from its engine. Journal of Cleaner Production, 2021, 287, 125012.	4.6	38
50	Dynamic fuzzy cognitive network approach for modelling and control of PEM fuel cell for power electric bicycle system. Applied Energy, 2017, 202, 20-31.	5.1	37
51	Waste heat from a biomass fueled gas turbine for power generation via an ORC or compressor inlet cooling via an absorption refrigeration cycle: A thermoeconomic comparison. Applied Thermal Engineering, 2021, 182, 116117.	3.0	37
52	An innovative double-flash binary cogeneration cooling and power (CCP) system: Thermodynamic evaluation and multi-objective optimization. Energy, 2021, 214, 118864.	4.5	34
53	On the electrical and thermal contact resistance of metal foam. International Journal of Heat and Mass Transfer, 2014, 72, 565-571.	2.5	33
54	Performance enhancement and multi-objective optimization of a solar-driven setup with storage process using an innovative modification. Journal of Energy Storage, 2020, 32, 101956.	3.9	33

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55	Assessment of a novel system utilizing gases exhausted from a ship's engine for power, cooling, and desalinated water generation. Applied Thermal Engineering, 2021, 184, 116177.	3.0	33
56	Eulerian–Lagrangian analysis of solid particle distribution in an internally heated and cooled air-filled cavity. Applied Mathematics and Computation, 2015, 250, 28-46.	1.4	32
57	Mathematical Modeling for Nanofluids Simulation: A Review of the Latest Works. , 0, , .		32
58	Dynamic modelling of PEM fuel cell of power electric bicycle system. International Journal of Hydrogen Energy, 2016, 41, 9585-9594.	3.8	30
59	Dynamic performance assessment of the efficiency of fuel cell-powered bicycle: An experimental approach. International Journal of Hydrogen Energy, 2014, 39, 13276-13284.	3.8	29
60	A Comprehensive Review of Milk Fouling on Heated Surfaces. Critical Reviews in Food Science and Nutrition, 2015, 55, 1724-1743.	5.4	29
61	Second law analysis of hybrid nanofluid flow in a microchannel heat sink integrated with ribs and secondary channels for utilization in miniature thermal devices. Chemical Engineering and Processing: Process Intensification, 2020, 153, 107963.	1.8	28
62	Theoretical modelling of momentum transfer function of bi-disperse porous media. Applied Thermal Engineering, 2015, 75, 867-870.	3.0	27
63	An optimized YOLO-based object detection model for crop harvesting system. IET Image Processing, 2021, 15, 2112-2125.	1.4	27
64	Forward and inverse kinematics model for robotic welding process using KR-16KS KUKA robot. , 2011, , .		25
65	Development of a new density correlation for carbon-based nanofluids using response surface methodology. Journal of Thermal Analysis and Calorimetry, 2018, 132, 1399-1407.	2.0	24
66	A Hybrid Finite-Element/Finite-Difference Scheme for Solving the 3-D Energy Equation in Transient Nonisothermal Fluid Flow over a Staggered Tube Bank. Numerical Heat Transfer, Part B: Fundamentals, 2015, 68, 169-183.	0.6	23
67	Energy, exergy, and exergoeconomic evaluation of a novel CCP system based on a solid oxide fuel cell integrated with absorption and ejector refrigeration cycles. Thermal Science and Engineering Progress, 2021, 21, 100755.	1.3	23
68	On numerical study of calcium sulphate fouling under sub-cooled flow boiling conditions. Applied Thermal Engineering, 2015, 81, 18-27.	3.0	16
69	ANFIS modeling to predict the friction forces in CNC guideways and servomotor currents in the feed drive system to be employed in lubrication control system. Journal of Manufacturing Processes, 2017, 28, 168-185.	2.8	16
70	Investigation on the laminar flame speed of CH4/CO2/air mixture at atmospheric and high pressures using Schlieren photography. International Journal of Hydrogen Energy, 2020, 45, 31151-31161.	3.8	15
71	MHD natural convection nanofluid flow in a heat exchanger: Effects of Brownian motion and thermophoresis for nanoparticles distribution. Case Studies in Thermal Engineering, 2021, 28, 101394.	2.8	14
72	Muscle activity, time to fatigue, and maximum task duration at different levels of production standard time. Journal of Physical Therapy Science, 2015, 27, 2323-2326.	0.2	13

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73	Automated object detection on aerial images for limited capacity embedded device using a lightweight CNN model. AEJ - Alexandria Engineering Journal, 2022, 61, 6023-6041.	3.4	13
74	The effects of energy expenditure rate on work productivity performance at different levels of production standard time. Journal of Physical Therapy Science, 2015, 27, 2431-2433.	0.2	12
75	Development of a control system for artificially rehabilitated limbs: a review. Biological Cybernetics, 2015, 109, 141-162.	0.6	12
76	Cutting force analysis to estimate the friction force in linear guideways of CNC machine. Measurement: Journal of the International Measurement Confederation, 2016, 85, 65-79.	2.5	12
77	Thermohydraulics of the liquid films in rotating heat pipes. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 30, 2861-2866.	1.6	12
78	Examination and optimization of a novel auxiliary trigeneration system for a ship through waste-to-energy from its engine. Case Studies in Thermal Engineering, 2022, 31, 101860.	2.8	12
79	Buoyancy induced heat transfer deterioration in vertical concentric and eccentric annuli. International Journal of Heat and Mass Transfer, 2015, 81, 222-233.	2.5	11
80	Thermal dispersion effects on forced convection in a porous-saturated pipe. Thermal Science and Engineering Progress, 2017, 2, 64-70.	1.3	11
81	A new experiential learning electromagnetism-like mechanism for numerical optimization. Expert Systems With Applications, 2017, 86, 321-333.	4.4	11
82	Efficient heat extraction from the storage zone of solar pond by structurally improved spiral pipes; numerical simulation/experimental validation. Energy Reports, 2022, 8, 7386-7400.	2.5	11
83	Do cardiac actin mutations lead to altered actomyosin interactions?. Biochemistry and Cell Biology, 2015, 93, 330-334.	0.9	9
84	Experimental investigation on momentum and drag reduction of Malaysian crop suspensions in closed conduit flow. IOP Conference Series: Materials Science and Engineering, 2017, 210, 012065.	0.3	9
85	Observation the melting process of the phase change material inside a half-cylindrical with thermal non-equilibrium porous media: CFD simulation. Case Studies in Thermal Engineering, 2021, 28, 101496.	2.8	9
86	An improved electromagnetism-like algorithm for numerical optimization. Theoretical Computer Science, 2016, 641, 75-84.	0.5	8
87	Using ANFIS technique for PEM fuel cell electric bicycle prediction model. International Journal of Environmental Science and Technology, 2019, 16, 7319-7326.	1.8	8
88	Slip flow forced convection through microducts of arbitrary cross-section: Heat and momentum analogy. International Communications in Heat and Mass Transfer, 2016, 71, 176-179.	2.9	7
89	Heating a cold semi-annulus wall by MHD natural convetion with nanofluid. Case Studies in Thermal Engineering, 2021, 28, 101569.	2.8	7
90	The relationship between work productivity and acute responses at different levels of production standard times. International Journal of Industrial Ergonomics, 2016, 56, 59-68.	1.5	5

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91	Small-scale helicopter system identification model using recurrent neural networks. , 2010, , .		4
92	Thermal dispersion effects on forced convection in a parallel plate porous channel. Meccanica, 2015, 50, 1971-1976.	1.2	4
93	A survey of using multiple affiliations by scholars in scientific articles. Scientometrics, 2016, 107, 317-318.	1.6	4
94	An Investigation into a Gear-Based Knee Joint Designed for Lower Limb Prosthesis. Applied Bionics and Biomechanics, 2017, 2017, 1-14.	0.5	4
95	Experimental investigation on drag reduction of flowing crop suspensions of the pulp fibers in circular pipe heat exchanger. Particulate Science and Technology, 2020, 38, 443-453.	1.1	4
96	Development of a system configuration for a solar powered hydrogen facility using fuzzy logic control. Journal of Zhejiang University: Science A, 2013, 14, 822-834.	1.3	3
97	A Review of Auto-Guided-Vehicles Routing Algorithms. Advanced Materials Research, 0, 479-481, 443-456.	0.3	2
98	Fuzzy-based risk prioritization for a hydrogen refueling facility in Malaysia. Journal of Zhejiang University: Science A, 2013, 14, 565-573.	1.3	2
99	Modeling and Simulation of Solar Powered Hydrogen System. Applied Mechanics and Materials, 2013, 315, 128-135.	0.2	2
100	Development of Hazard Assessment for Hydrogen Refueling Station in Malaysia. Applied Mechanics and Materials, 0, 315, 121-127.	0.2	2
101	CFD Convective Flow Simulation of the Varying Properties of CO_2-H_2O Mixtures in Geothermal Systems. Scientific World Journal, The, 2015, 2015, 1-8.	0.8	2
102	An Investigation into Turning of ASSAB-705 Steel Using Multiple Sensors. Materials and Manufacturing Processes, 2016, 31, 896-904.	2.7	2
103	Effect of various refining processes for Kenaf Bast non-wood pulp fibers suspensions on heat transfer coefficient in circular pipe heat exchanger. Heat and Mass Transfer, 2018, 54, 875-882.	1.2	2
104	Effect of the Hall currents and thermal radiation on the flow of a nanofluid through a vertical rotating channel. Mathematical Methods in the Applied Sciences, 0, , .	1.2	2
105	Toward improved heat dissipation of the turbulent regime over backward-facing step for the AL_2O_3-water nanofluids: An experimental approach. Thermal Science, 2019, 23, 1779-1789.	0.5	2
106	Using artificial neural network to optimize hydrogen solubility and evaluation of environmental condition effects. International Journal of Low-Carbon Technologies, 2022, 17, 80-89.	1.2	2
107	A Conceptual Model of Work Productivity Associated with Work-Related Musculoskeletal Disorders in the Industrial Repetitive Task. Advanced Materials Research, 0, 845, 623-626.	0.3	1
108	Radio quiet and radio notification zones characteristics for radio astronomy in medium densely populated areas and humid tropical countries. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.0	1

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109	Employing numerical method for evaluating the heat transfer rate of a hot tube by nanofluid natural convection. Case Studies in Thermal Engineering, 2022, , 102006.	2.8	1
110	Cooling a Hot Semiannulus with Constant Heat Flux by Using Fe_3O. Journal of Nanomaterials, 2022, 2022, 1-9.	1.5	1
111	Do Cardiac Actin Mutations Lead to Altered Muscle Contractility?. Biophysical Journal, 2014, 106, 570a.	0.2	0
112	Model based controller and observer for boost converter. , 2015, , .		0
113	The Variation of Work Productivity and Muscle Activities at Different Levels of Production Target. IOP Conference Series: Materials Science and Engineering, 2017, 248, 012014.	0.3	0
114	The Mediating Effects of Muscle Activities on the Relationship of Production Standard Time and Work Productivity. IOP Conference Series: Materials Science and Engineering, 2017, 248, 012015.	0.3	0
115	Towards Establishing Path Planning Strategies For Autonomous UAVs; A Brief SurveySummary on Recent Techniques. Proceedings of International Conference on Artificial Life and Robotics, 2021, 26, 754-759.	0.1	0
116	A Controller for Natural Gas Fuel Dispenser with Multi-Level-Pressure Banks. Studies in Systems, Decision and Control, 2021, , 25-45.	0.8	0
117	Optimal performance of data transmission between Malaysia-China for VLBI-based radio astronomy observation using Jive5ab. Experimental Astronomy, 0, , 1.	1.6	0