

Pouyan Talebizadeh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/453507/publications.pdf>

Version: 2024-02-01

144
papers

4,655
citations

94269

37
h-index

133063

59
g-index

148
all docs

148
docs citations

148
times ranked

2548
citing authors

#	ARTICLE	IF	CITATIONS
1	Solidification enhancement with multiple PCMs, cascaded metal foam and nanoparticles in the shell-and-tube energy storage system. <i>Applied Energy</i> , 2020, 257, 113993.	5.1	219
2	The role of non-thermal plasma technique in NO _x treatment: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 40, 886-901.	8.2	133
3	Thermal performance evaluation of non-uniform fin array in a finned double-pipe latent heat storage system. <i>Energy</i> , 2020, 193, 116800.	4.5	127
4	Numerical study of a multiple-segment metal foam-PCM latent heat storage unit: Effect of porosity, pore density and location of heat source. <i>Energy</i> , 2019, 189, 116108.	4.5	123
5	Impact of variable fluid properties on forced convection of Fe ₃ O ₄ /CNT/water hybrid nanofluid in a double-pipe mini-channel heat exchanger. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1031-1043.	2.0	123
6	Free convection heat transfer and entropy generation analysis of water-Fe ₃ O ₄ /CNT hybrid nanofluid in a concentric annulus. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 915-934.	1.6	118
7	Exergy and energy analysis of wavy tubes photovoltaic-thermal systems using microencapsulated PCM nano-slurry coolant fluid. <i>Applied Energy</i> , 2020, 266, 114849.	5.1	109
8	Effect of porous medium and nanoparticles presences in a counter-current triple-tube composite porous/nano-PCM system. <i>Applied Thermal Engineering</i> , 2020, 167, 114777.	3.0	108
9	Composite metal foam/PCM energy store design for dwelling space air heating. <i>Energy Conversion and Management</i> , 2019, 201, 112151.	4.4	97
10	Discharge of a composite metal foam/phase change material to air heat exchanger for a domestic thermal storage unit. <i>Renewable Energy</i> , 2020, 148, 987-1001.	4.3	90
11	Energy saving in buildings by using the exhaust and ventilation air for cooling of photovoltaic panels. <i>Energy and Buildings</i> , 2011, 43, 2219-2226.	3.1	82
12	Transient simulation of finned heat sinks embedded with PCM for electronics cooling. <i>Thermal Science and Engineering Progress</i> , 2020, 18, 100520.	1.3	82
13	Multi-objective energy and exergy optimization of different configurations of hybrid earth-air heat exchanger and building integrated photovoltaic/thermal system. <i>Energy Conversion and Management</i> , 2019, 195, 1098-1110.	4.4	81
14	Energy recovery from domestic radiators using a compact composite metal Foam/PCM latent heat storage. <i>Journal of Cleaner Production</i> , 2020, 257, 120504.	4.6	81
15	Melting and solidification characteristics of a double-pipe latent heat storage system with sinusoidal wavy channels embedded in a porous medium. <i>Energy</i> , 2019, 171, 751-769.	4.5	78
16	Prediction of the optimum slope and surface azimuth angles using the Genetic Algorithm. <i>Energy and Buildings</i> , 2011, 43, 2998-3005.	3.1	73
17	A new approach for employing multiple PCMs in the passive thermal management of photovoltaic modules. <i>Solar Energy</i> , 2021, 222, 160-174.	2.9	73
18	Effect of fuel jet arrangement on the mixing rate inside trapezoidal cavity flame holder at supersonic flow. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 22231-22239.	3.8	70

#	ARTICLE	IF	CITATIONS
19	Wavy channels triple-tube LHS unit with sinusoidal variable wavelength in charging/discharging mechanism. <i>International Communications in Heat and Mass Transfer</i> , 2019, 107, 93-105.	2.9	62
20	Performance evaluation of melting/solidification mechanism in a variable wave-length wavy channel double-tube latent heat storage system. <i>Journal of Energy Storage</i> , 2020, 27, 101063.	3.9	61
21	An experimental investigation for study the rheological behavior of water-carbon nanotube/magnetite nanofluid subjected to a magnetic field. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 534, 122129.	1.2	60
22	Energy and exergy analysis of two novel hybrid solar photovoltaic geothermal energy systems incorporating a building integrated photovoltaic thermal system and an earth air heat exchanger system. <i>Solar Energy</i> , 2019, 188, 83-95.	2.9	56
23	Energetic-exergetic analysis of an air handling unit to reduce energy consumption by a novel creative idea. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 3959-3975.	1.6	55
24	Determination of Optimum Slope Angles of Solar Collectors Based on New Correlations. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2011, 33, 1567-1580.	1.2	54
25	Energy, exergy, economic, exergoeconomic, and exergoenvironmental (5E) analyses of a triple cycle with carbon capture. <i>Journal of CO2 Utilization</i> , 2020, 41, 101258.	3.3	53
26	Experimental evaluation of novel photovoltaic/thermal systems using serpentine cooling tubes with different cross-sections of circular, triangular and rectangular. <i>Energy</i> , 2020, 208, 118409.	4.5	53
27	Numerical modelling of phase change material melting process embedded in porous media: Effect of heat storage size. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2020, 234, 365-383.	0.8	52
28	Performance evaluation of non-thermal plasma on particulate matter, ozone and CO2 correlation for diesel exhaust emission reduction. <i>Chemical Engineering Journal</i> , 2015, 276, 240-248.	6.6	51
29	MHD mixed convection due to a rotating circular cylinder in a trapezoidal enclosure filled with a nanofluid saturated with a porous media. <i>International Journal of Mechanical Sciences</i> , 2020, 181, 105688.	3.6	50
30	Numerical comparison of airborne particles deposition and dispersion in radiator and floor heating systems. <i>Advanced Powder Technology</i> , 2014, 25, 389-397.	2.0	45
31	Numerical investigation of non-Newtonian blood flow within an artery with cone shape of stenosis in various stenosis angles. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 192, 105434.	2.6	45
32	Energy cost and efficiency analysis of building resilience against power outage by shared parking station for electric vehicles and demand response program. <i>Energy</i> , 2021, 215, 119058.	4.5	45
33	Phase change heat transfer in an L-shape heatsink occupied with paraffin-copper metal foam. <i>Applied Thermal Engineering</i> , 2020, 177, 115493.	3.0	45
34	Static bending analysis of functionally graded polymer composite curved beams reinforced with carbon nanotubes. <i>Thin-Walled Structures</i> , 2020, 157, 107139.	2.7	44
35	Improving performance of AHU using exhaust air potential by applying exergy analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2913-2923.	2.0	43
36	Optimal design of a metal hydride hydrogen storage bed using a helical coil heat exchanger along with a central return tube during the absorption process. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 14478-14493.	3.8	43

#	ARTICLE	IF	CITATIONS
37	Numerical study of melting and solidification in a wavy double-pipe latent heat thermal energy storage system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 1785-1799.	2.0	42
38	Consecutive charging and discharging of a PCM-based plate heat exchanger with zigzag configuration. <i>Applied Thermal Engineering</i> , 2021, 193, 116970.	3.0	42
39	Analysis of hydrothermal characteristics of magnetic Al_2O_3 nanofluid within a novel wavy enclosure during natural convection process considering internal heat generation. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	42
40	Improved melting of latent heat storage via porous medium and uniform Joule heat generation. <i>Journal of Energy Storage</i> , 2020, 31, 101747.	3.9	40
41	Intensifying the Charging Response of a Phase-Change Material with Twisted Fin Arrays in a Shell-And-Tube Storage System. <i>Energies</i> , 2021, 14, 1619.	1.6	39
42	Intensifying the thermal response of PCM via fin-assisted foam strips in the shell-and-tube heat storage system. <i>Journal of Energy Storage</i> , 2022, 45, 103733.	3.9	39
43	Simultaneous and consecutive charging and discharging of a PCM-based domestic air heater with metal foam. <i>Applied Thermal Engineering</i> , 2021, 197, 117408.	3.0	38
44	Entropy and thermal performance analysis of PCM melting and solidification mechanisms in a wavy channel triplex-tube heat exchanger. <i>Renewable Energy</i> , 2021, 165, 52-72.	4.3	36
45	Effects of non-uniform fin arrangement and size on the thermal response of a vertical latent heat triple-tube heat exchanger. <i>Journal of Energy Storage</i> , 2022, 45, 103723.	3.9	36
46	Multiphase flow and boiling heat transfer modelling of nanofluids in horizontal tubes embedded in a metal foam. <i>International Journal of Thermal Sciences</i> , 2019, 146, 106099.	2.6	35
47	Effect of airflow channel arrangement on the discharge of a composite metal foam phase change material heat exchanger. <i>International Journal of Energy Research</i> , 2021, 45, 2593-2609.	2.2	35
48	Numerical study of circular-elliptical double-pipe thermal energy storage systems. <i>Journal of Energy Storage</i> , 2020, 30, 101440.	3.9	34
49	Mixed convection heat transfer of Al_2O_3 nanofluid in a horizontal channel subjected with two heat sources. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 2761-2774.	2.0	33
50	Hydrothermal performance of twisted elliptical tube equipped with twisted tape insert. <i>International Journal of Thermal Sciences</i> , 2022, 172, 107233.	2.6	33
51	Thermal performance of a phase change material-based heat sink in presence of nanoparticles and metal-foam to enhance cooling performance of electronics. <i>Journal of Energy Storage</i> , 2022, 48, 103882.	3.9	33
52	Thermal buckling of laminated Nano-Composite conical shell reinforced with graphene platelets. <i>Thin-Walled Structures</i> , 2020, 155, 106913.	2.7	32
53	Investigation of Heat Transfer Enhancement in a Triple Tube Latent Heat Storage System Using Circular Fins with Inline and Staggered Arrangements. <i>Nanomaterials</i> , 2021, 11, 2647.	1.9	32
54	Turbulent forced convection and entropy production of a nanofluid in a solar collector considering various shapes for nanoparticles. <i>International Communications in Heat and Mass Transfer</i> , 2020, 117, 104804.	2.9	31

#	ARTICLE	IF	CITATIONS
55	Underwater friction stir welding of Al-Mg alloy: Thermo-mechanical modeling and validation. <i>Materials Today Communications</i> , 2021, 26, 101965.	0.9	31
56	The Configuration Effects of Electrode on the Performance of Dielectric Barrier Discharge Reactor for NO ₂ Removal. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 1944-1953.	0.6	30
57	Curve-fitting on experimental thermal conductivity of motor oil under influence of hybrid nano additives containing multi-walled carbon nanotubes and zinc oxide. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 535, 122128.	1.2	30
58	Conjugate Phase Change Heat Transfer in an Inclined Compound Cavity Partially Filled with a Porous Medium: A Deformed Mesh Approach. <i>Transport in Porous Media</i> , 2020, 132, 657-681.	1.2	30
59	A comprehensive study of two-phase flow and heat transfer of water/Ag nanofluid in an elliptical curved minichannel. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 383-402.	1.7	28
60	Toward a highly efficient photovoltaic thermal module: Energy and exergy analysis. <i>Renewable Energy</i> , 2021, 169, 1351-1372.	4.3	28
61	Melting Enhancement in a Triple-Tube Latent Heat Storage System with Sloped Fins. <i>Nanomaterials</i> , 2021, 11, 3153.	1.9	28
62	Improved Melting of Latent Heat Storage Using Fin Arrays with Non-Uniform Dimensions and Distinct Patterns. <i>Nanomaterials</i> , 2022, 12, 403.	1.9	28
63	A numerical investigation on the influence of nanoadditive shape on the natural convection and entropy generation inside a rectangle-shaped finned concentric annulus filled with boehmite alumina nanofluid using two-phase mixture model. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 915-930.	2.0	27
64	Curve-fitting on experimental data for predicting the thermal-conductivity of a new generated hybrid nanofluid of graphene oxide-titanium oxide/water. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 548, 122140.	1.2	25
65	Nano-particle deposition in the presence of electric field. <i>Journal of Aerosol Science</i> , 2018, 126, 169-179.	1.8	24
66	Numerical investigation of the effect of water/Al ₂ O ₃ nanofluid on heat transfer in trapezoidal, sinusoidal and stepped microchannels. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 2439-2465.	1.6	24
67	Thermohydraulic analysis of hybrid nanofluid in a multilayered copper foam heat sink employing local thermal non-equilibrium condition: Optimization of layers thickness. <i>Applied Thermal Engineering</i> , 2020, 181, 115961.	3.0	24
68	Two-phase mixture simulation of the effect of fin arrangement on first and second law performance of a bifurcation microchannels heatsink operated with biologically prepared water-Ag nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2020, 114, 104554.	2.9	24
69	Effect of pitch distance of rotational twisted tape on the heat transfer and fluid flow characteristics. <i>International Journal of Thermal Sciences</i> , 2021, 170, 106966.	2.6	24
70	Optimization with genetic algorithm of a PV/T air collector with natural air flow and a case study. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, .	0.8	23
71	Thermo-Hydraulic Performance Analysis on the Effects of Truncated Twisted Tape Inserts in a Tube Heat Exchanger. <i>Symmetry</i> , 2020, 12, 1652.	1.1	23
72	Effect of Twisted Fin Array in a Triple-Tube Latent Heat Storage System during the Charging Mode. <i>Sustainability</i> , 2021, 13, 2685.	1.6	23

#	ARTICLE	IF	CITATIONS
73	A numerical study of a PCM-based passive solar chimney with a finned absorber. <i>Journal of Building Engineering</i> , 2020, 32, 101516.	1.6	23
74	Solidification Enhancement in a Triple-Tube Latent Heat Energy Storage System Using Twisted Fins. <i>Energies</i> , 2021, 14, 7179.	1.6	23
75	Localized heating element distribution in composite metal foam phase change material: Fourier's law and creeping flow effects. <i>International Journal of Energy Research</i> , 2021, 45, 13380-13396.	2.2	22
76	Evaluation of Multiple Semi-Twisted Tape Inserts in a Heat Exchanger Pipe Using Al ₂ O ₃ Nanofluid. <i>Nanomaterials</i> , 2021, 11, 1570.	1.9	22
77	Optimum design of a double elliptical latent heat energy storage system during the melting process. <i>Journal of Energy Storage</i> , 2021, 44, 103384.	3.9	22
78	Characterization of the nanoparticles, the stability analysis and the evaluation of a new hybrid nano-oil thermal conductivity. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 1553-1564.	2.0	21
79	Heat Transfer Enhancement of Nanofluid Flow in a Tube Equipped with Rotating Twisted Tape Inserts: A Two-Phase Approach. <i>Heat Transfer Engineering</i> , 2022, 43, 608-622.	1.2	21
80	Comparative energy, exergy, environmental, exergoeconomic, and enviroeconomic analysis of building integrated photovoltaic/thermal, earth-air heat exchanger, and hybrid systems. <i>Journal of Cleaner Production</i> , 2022, 362, 132510.	4.6	20
81	Thermo-economic analysis of a cold storage system in full and partial modes with two different scenarios: A case study. <i>Journal of Energy Storage</i> , 2019, 24, 100783.	3.9	19
82	Phase Change Process in a Zigzag Plate Latent Heat Storage System during Melting and Solidification. <i>Molecules</i> , 2020, 25, 4643.	1.7	19
83	An innovative multi-zone configuration to enhance the charging process of magnesium based metal hydride hydrogen storage tank. <i>Journal of Energy Storage</i> , 2021, 36, 102443.	3.9	19
84	Hydrothermal and entropy generation specifications of a hybrid ferronanofluid in microchannel heat sink embedded in CPUs. <i>Chinese Journal of Chemical Engineering</i> , 2021, 32, 27-38.	1.7	18
85	Evaluation of Residence Time on Nitrogen Oxides Removal in Non-Thermal Plasma Reactor. <i>PLoS ONE</i> , 2015, 10, e0140897.	1.1	17
86	Enhanced chemical and mechanical durability of superhydrophobic and superoleophilic nanocomposite coatings on cotton fabric for reusable oil/water separation applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 603, 125204.	2.3	17
87	The effects of vertical and horizontal sources on heat transfer and entropy generation in an inclined triangular enclosure filled with non-Newtonian fluid and subjected to magnetic field. <i>Powder Technology</i> , 2020, 364, 924-942.	2.1	16
88	Improving the Melting Duration of a PV/PCM System Integrated with Different Metal Foam Configurations for Thermal Energy Management. <i>Nanomaterials</i> , 2022, 12, 423.	1.9	16
89	Solidification of a nano-enhanced phase change material (NePCM) in a double elliptical latent heat storage unit with wavy inner tubes. <i>Solar Energy</i> , 2022, 241, 39-53.	2.9	16
90	Multi-objective optimization of cooling water package based on 3E analysis: A case study. <i>Energy</i> , 2017, 134, 840-849.	4.5	15

#	ARTICLE	IF	CITATIONS
91	Synthesis of carnation-like Ho ₃₊ /Co ₃ O ₄ nanoflowers as a modifier for electrochemical determination of chloramphenicol in eye drop. <i>Microchemical Journal</i> , 2020, 159, 105535.	2.3	15
92	Optimization of Heliostat Layout in Central Receiver Solar Power Plants. <i>Journal of Energy Engineering - ASCE</i> , 2014, 140, .	1.0	14
93	Experimental study on the optimization of dielectric barrier discharge reactor for NO _x treatment. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 3283-3293.	1.8	14
94	Investigation of Overlapped Twisted Tapes Inserted in a Double-Pipe Heat Exchanger Using Two-Phase Nanofluid. <i>Nanomaterials</i> , 2020, 10, 1656.	1.9	14
95	Free vibration analysis of the macro-micro-nano plates and shells made of a material with functionally graded porosity: A closed-form solution. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 1054-1080.	3.4	14
96	A new design to enhance the conductive and convective heat transfer of latent heat thermal energy storage units. <i>Applied Thermal Engineering</i> , 2022, 215, 118955.	3.0	14
97	Heat generation/absorption effects on magnetohydrodynamic natural convection flow over a sphere in a non-Darcian porous medium. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2011, 225, 29-39.	1.4	13
98	Natural convection energy recovery loop analysis, part I: energy and exergy studies by varying inlet air flow rate. <i>Heat and Mass Transfer</i> , 2020, 56, 1685-1695.	1.2	13
99	Thermal behaviour of the flow boiling of a complex nanofluid in a rectangular channel: An experimental and numerical study. <i>International Communications in Heat and Mass Transfer</i> , 2020, 117, 104773.	2.9	13
100	Numerical study of nanocomposite phase change material-based heat sink for the passive cooling of electronic components. <i>Heat and Mass Transfer</i> , 0, , 1.	1.2	13
101	Thermal process enhancement of HNCPCM filled heat sink: Effect of hybrid nanoparticles ratio and shape. <i>International Communications in Heat and Mass Transfer</i> , 2021, 125, 105323.	2.9	13
102	Numerical investigation of a double-pipe latent heat thermal energy storage with sinusoidal wavy fins during melting and solidification. <i>International Journal of Energy Research</i> , 2021, 45, 20934-20948.	2.2	13
103	Time history of diesel particle deposition in cylindrical dielectric barrier discharge reactors. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	12
104	Nano-particle deposition in laminar annular pipe flows. <i>Advanced Powder Technology</i> , 2020, 31, 3134-3143.	2.0	11
105	NUMERICAL AND ANALYTICAL SOLUTIONS FOR NATURAL CONVECTION FLOW WITH THERMAL RADIATION AND MASS TRANSFER PAST A MOVING VERTICAL POROUS PLATE BY DQM AND HAM. <i>International Journal of Computational Methods</i> , 2011, 08, 611-631.	0.8	10
106	Forced convection around horizontal tubes bundles of a heat exchanger using a two-phase mixture model: Effects of nanofluid and tubes Configuration. <i>International Journal of Mechanical Sciences</i> , 2019, 161-162, 105056.	3.6	10
107	Optimum Placement of Heating Tubes in a Multi-Tube Latent Heat Thermal Energy Storage. <i>Materials</i> , 2021, 14, 1232.	1.3	10
108	Solidification Enhancement in a Multi-Tube Latent Heat Storage System for Efficient and Economical Production: Effect of Number, Position and Temperature of the Tubes. <i>Nanomaterials</i> , 2021, 11, 3211.	1.9	10

#	ARTICLE	IF	CITATIONS
109	Investigating the effects of different innovative turbulators on the turbulent flow field and heat transfer of a multi-phase hybrid nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1755-1772.	2.0	9
110	Impact of Tube Bundle Placement on the Thermal Charging of a Latent Heat Storage Unit. <i>Energies</i> , 2021, 14, 1289.	1.6	9
111	MULTI-OBJECTIVE OPTIMIZATION OF A R744/R134A CASCADE REFRIGERATION SYSTEM: EXERGETIC, ECONOMIC, ENVIRONMENTAL, AND SENSITIVE ANALYSIS (3ES). <i>Journal of Thermal Engineering</i> , 2019, 5, 237-250.	0.8	9
112	Performance Analysis of a Solar Cooling System with Equal and Unequal Adsorption/Desorption Operating Time. <i>Energies</i> , 2021, 14, 6749.	1.6	9
113	Natural Convection Effect on Solidification Enhancement in a Multi-Tube Latent Heat Storage System: Effect of Tubes' Arrangement. <i>Energies</i> , 2021, 14, 7489.	1.6	9
114	Nano-particle deposition in axisymmetric annular pipes with thread. <i>Particulate Science and Technology</i> , 2020, 38, 792-800.	1.1	8
115	Thermal-hydraulic performance of hybrid nano-additives containing multiwall carbon nanotube @ 2 O 3 inside a parabolic through solar collector with turbulators. <i>Mathematical Methods in the Applied Sciences</i> , 2020, , .	1.2	8
116	Thermodynamic, Economic and Sustainability Analysis of Solar Organic Rankine Cycle System with Zeotropic Working Fluid Mixtures for Micro-Cogeneration in Buildings. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7925.	1.3	8
117	The effect of soot accumulation and backpressure of an integrated after-treatment system on diesel engine performance. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 8435-8443.	2.0	8
118	Thermal conductivity of ethylene glycol-based nanofluid containing SiO ₂ nanoadditives: experimental data and modeling through curve fitting. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 1101-1109.	2.0	7
119	Performance Investigation of Solar Organic Rankine Cycle System With Zeotropic Working Fluid Mixtures for Use in Micro-Cogeneration. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, .	1.4	7
120	Investigation of transient conduction-radiation heat transfer in a square cavity using combination of LBM and FVM. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2018, 43, 1.	0.8	6
121	Elastic Wave Characteristics of Graphene Reinforced Polymer Nanocomposite Curved Beams Including Thickness Stretching Effect. <i>Polymers</i> , 2020, 12, 2194.	2.0	6
122	Optimization of wire electrical discharge turning process: trade-off between production rate and fatigue life. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 719-730.	1.5	6
123	Latent Heat Thermal Storage of Nano-Enhanced Phase Change Material Filled by Copper Foam with Linear Porosity Variation in Vertical Direction. <i>Energies</i> , 2021, 14, 1508.	1.6	6
124	Measurement and evaluation of magnetic field assistance on fatigue life and surface characterization of Inconel 718 alloy processed by dry electrical discharge turning. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 173, 108578.	2.5	5
125	Heat Pump-Organic Rankine Cycle Hybrid Systems for Co/Tri-Generation Applications: A State-of-the-Art Overview. , 2020, , .		5
126	Numerical simulation of critical heat flux in forced boiling of a flow in an inclined tube with different angles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2859-2880.	2.0	4

#	ARTICLE	IF	CITATIONS
127	The Thermal Charging Performance of Finned Conical Thermal Storage System Filled with Nano-Enhanced Phase Change Material. <i>Molecules</i> , 2021, 26, 1605.	1.7	4
128	Simulation of a Fast-Charging Porous Thermal Energy Storage System Saturated with a Nano-Enhanced Phase Change Material. <i>Energies</i> , 2021, 14, 1575.	1.6	4
129	Thermal Charging Optimization of a Wavy-Shaped Nano-Enhanced Thermal Storage Unit. <i>Molecules</i> , 2021, 26, 1496.	1.7	4
130	Numerical simulation of stratified intrusive gravity current in three-dimensional state due to the presence of particles using large eddy simulation method. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	4
131	Recent Developments of Combined Heat Pump and Organic Rankine Cycle Energy Systems for Buildings. , 0, , .		4
132	On the use of the homotopy analysis method for solving the problem of the flow and heat transfer in a liquid film over an unsteady stretching sheet. <i>Journal of Applied Mechanics and Technical Physics</i> , 2015, 56, 654-666.	0.1	3
133	Effects of Roughness on the Performance of a threaded Zigzag Demister Using RSM and turbulent models. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2020, 45, 1.	0.8	3
134	Latent Heat Thermal Storage in Non-Uniform Metal Foam Filled with Nano-Enhanced Phase Change Material. <i>Sustainability</i> , 2021, 13, 2401.	1.6	3
135	Melting phase change heat transfer in a quasi-petal tube thermal energy storage unit. <i>PLoS ONE</i> , 2021, 16, e0246972.	1.1	3
136	In-plane stress analysis of multiple parallel cracks in an orthotropic FGM medium under time-harmonic loading. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 113, 102936.	2.1	3
137	Effect of Building Height on Energy Consumption of Radiator and Floor Heating Systems. <i>Applied Mechanics and Materials</i> , 0, 110-116, 4636-4642.	0.2	2
138	Wave Dispersion Analysis of Fluid Conveying Nanocomposite Shell Reinforced by MWCNTs Considering the Effect of Waviness and Agglomeration Efficiency. <i>Polymers</i> , 2021, 13, 153.	2.0	1
139	Effect of the Quasi-Petal Heat Transfer Tube on the Melting Process of the Nano-Enhanced Phase Change Substance in a Thermal Energy Storage Unit. <i>Sustainability</i> , 2021, 13, 2871.	1.6	1
140	A Study on the Different Components of Solar Radiation in Order to Calculate the Optimum Solar Angles and the Gain of Solar Energy Using Genetic Algorithm. , 2011, , .		0
141	Transient Simulation of Finned Heat Sinks Embedded with PCM for Electronics Cooling. , 2021, , 527-531.		0
142	Modeling of the Heliostat Field in Central Receiver Systems for A Given Input Power. , 2014, , 379-393.		0
143	Numerical Simulation of a Composite Metal Foam-PCM Air Heat Exchanger Using Rod PTC Heating Elements. , 2019, , .		0
144	Performance Investigation of Solar Organic Rankine Cycle Systems With and Without Regeneration and With Zeotropic Working Fluid Mixtures for Use in Micro-Cogeneration. , 2020, , .		0