

# Mohammad H Ahmadi

## List of Publications by Year in descending order

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307  
papers

14,312  
citations

15466

65  
h-index

34900

98  
g-index

310  
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310  
docs citations

310  
times ranked

6915  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoelectric cooler and thermoelectric generator devices: A review of present and potential applications, modeling and materials. <i>Energy</i> , 2019, 186, 115849.	4.5	344
2	A review of thermal conductivity of various nanofluids. <i>Journal of Molecular Liquids</i> , 2018, 265, 181-188.	2.3	296
3	Solar power technology for electricity generation: A critical review. <i>Energy Science and Engineering</i> , 2018, 6, 340-361.	1.9	251
4	Designing a solar powered Stirling heat engine based on multiple criteria: Maximized thermal efficiency and power. <i>Energy Conversion and Management</i> , 2013, 75, 282-291.	4.4	216
5	Exergy analysis of a Combined Cooling, Heating and Power system integrated with wind turbine and compressed air energy storage system. <i>Energy Conversion and Management</i> , 2017, 131, 69-78.	4.4	208
6	Application of Nanofluids in Thermal Performance Enhancement of Parabolic Trough Solar Collector: State-of-the-Art. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 463.	1.3	189
7	Experimental investigation of graphene oxide nanofluid on heat transfer enhancement of pulsating heat pipe. <i>International Communications in Heat and Mass Transfer</i> , 2018, 91, 90-94.	2.9	187
8	Application of the multi-objective optimization method for designing a powered Stirling heat engine: Design with maximized power, thermal efficiency and minimized pressure loss. <i>Renewable Energy</i> , 2013, 60, 313-322.	4.3	184
9	Thermo-economic multi-objective optimization of solar dish-Stirling engine by implementing evolutionary algorithm. <i>Energy Conversion and Management</i> , 2013, 73, 370-380.	4.4	180
10	Design of a cost-effective wind/photovoltaic/hydrogen energy system for supplying a desalination unit by a heuristic approach. <i>Solar Energy</i> , 2016, 139, 666-675.	2.9	179
11	Multi-objective thermodynamic-based optimization of output power of Solar Dish-Stirling engine by implementing an evolutionary algorithm. <i>Energy Conversion and Management</i> , 2013, 75, 438-445.	4.4	176
12	Battery thermal management system employing phase change material with cell-to-cell air cooling. <i>Applied Thermal Engineering</i> , 2019, 161, 114199.	3.0	176
13	Techno-economic assessment of a Kalina cycle driven by a parabolic Trough solar collector. <i>Energy Conversion and Management</i> , 2015, 105, 1328-1339.	4.4	166
14	Experimental and numerical analysis of a nanofluidic thermosyphon heat exchanger. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 40-47.	1.5	145
15	Comparing various machine learning approaches in modeling the dynamic viscosity of CuO/water nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2585-2599.	2.0	142
16	Sensitivity analysis and application of machine learning methods to predict the heat transfer performance of CNT/water nanofluid flows through coils. <i>International Journal of Heat and Mass Transfer</i> , 2019, 128, 825-835.	2.5	141
17	Factorial experimental design for the thermal performance of a double pipe heat exchanger using Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> hybrid nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2018, 97, 92-102.	2.9	140
18	Thermodynamic analysis of a combined gas turbine, ORC cycle and absorption refrigeration for a CCHP system. <i>Applied Thermal Engineering</i> , 2017, 111, 397-406.	3.0	135

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19	A review on pulsating heat pipes: From solar to cryogenic applications. <i>Applied Energy</i> , 2018, 222, 475-484.	5.1	132
20	Thermal models for analysis of performance of Stirling engine: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 168-184.	8.2	131
21	Exergoeconomic analysis and multi objective optimization of performance of a Carbon dioxide power cycle driven by geothermal energy with liquefied natural gas as its heat sink. <i>Energy Conversion and Management</i> , 2016, 119, 422-434.	4.4	129
22	Numerical simulation of PV cooling by using single turn pulsating heat pipe. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 203-208.	2.5	127
23	A review on the utilized machine learning approaches for modeling the dynamic viscosity of nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 114, 109345.	8.2	127
24	Renewable energy harvesting with the application of nanotechnology: A review. <i>International Journal of Energy Research</i> , 2019, 43, 1387-1410.	2.2	125
25	Multi-objective optimization of Stirling engine using non-ideal adiabatic method. <i>Energy Conversion and Management</i> , 2014, 80, 54-62.	4.4	121
26	A numerical and experimental study on the energy efficiency of a regenerative Heat and Mass Exchanger utilizing the counter-flow Maisotsenko cycle. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 1-12.	1.5	118
27	Optimization of performance of Combined Solar Collector-Geothermal Heat Pump Systems to supply thermal load needed for heating greenhouses. <i>Energy Conversion and Management</i> , 2015, 97, 382-392.	4.4	117
28	How to improve the thermal performance of pulsating heat pipes: A review on working fluid. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 630-638.	8.2	117
29	Application of nanofluids in thermosyphons: A review. <i>Journal of Molecular Liquids</i> , 2018, 272, 395-402.	2.3	116
30	Thermodynamic analysis and multi objective optimization of performance of solar dish Stirling engine by the centrality of entransy and entropy generation. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 78, 88-95.	3.3	115
31	A review of magnetic field influence on natural convection heat transfer performance of nanofluids in square cavities. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 2581-2623.	2.0	115
32	Cooling performance of nanofluid submerged vs. nanofluid circulated battery thermal management systems. <i>Journal of Cleaner Production</i> , 2019, 240, 118131.	4.6	112
33	A review on the approaches applied for cooling fuel cells. <i>International Journal of Heat and Mass Transfer</i> , 2019, 139, 517-525.	2.5	111
34	A proposed model to predict thermal conductivity ratio of Al <sub>2</sub> O <sub>3</sub> /EG nanofluid by applying least squares support vector machine (LSSVM) and genetic algorithm as a connectionist approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 271-281.	2.0	109
35	Utilization of hybrid nanofluids in solar energy applications: A review. <i>Nano Structures Nano Objects</i> , 2019, 20, 100386.	1.9	108
36	Exergy analysis of a hydrogen and water production process by a solar-driven transcritical CO <sub>2</sub> power cycle with Stirling engine. <i>Journal of Cleaner Production</i> , 2017, 158, 165-181.	4.6	107

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37	Thermodynamic and exergy analysis and optimization of a transcritical CO <sub>2</sub> power cycle driven by geothermal energy with liquefied natural gas as its heat sink. <i>Applied Thermal Engineering</i> , 2016, 109, 640-652.	3.0	106
38	Thermo-economic optimization of Stirling heat pump by using non-dominated sorting genetic algorithm. <i>Energy Conversion and Management</i> , 2015, 91, 315-322.	4.4	102
39	Thermal conductivity ratio prediction of Al <sub>2</sub> O <sub>3</sub> /water nanofluid by applying connectionist methods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 541, 154-164.	2.3	101
40	Smart modeling by using artificial intelligent techniques on thermal performance of flat-plate solar collector using nanofluid. <i>Energy Science and Engineering</i> , 2019, 7, 1649-1658.	1.9	101
41	Multi-objective optimization of an irreversible Stirling cryogenic refrigerator cycle. <i>Energy Conversion and Management</i> , 2014, 82, 351-360.	4.4	98
42	Thermodynamic and thermo-economic analysis and optimization of an irreversible regenerative closed Brayton cycle. <i>Energy Conversion and Management</i> , 2015, 94, 124-129.	4.4	97
43	Thermodynamic and thermo-economic analysis and optimization of performance of irreversible four-temperature-level absorption refrigeration. <i>Energy Conversion and Management</i> , 2014, 88, 1051-1059.	4.4	94
44	Optimal design of a solar driven heat engine based on thermal and thermo-economic criteria. <i>Energy Conversion and Management</i> , 2013, 75, 635-642.	4.4	93
45	Heat transfer and entropy generation of the nanofluid flow inside sinusoidal wavy channels. <i>Journal of Molecular Liquids</i> , 2018, 269, 229-240.	2.3	92
46	Developing an ANFIS-based swarm concept model for estimating the relative viscosity of nanofluids. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 26-39.	1.5	90
47	Thermodynamic analysis and performance optimization of irreversible Carnot refrigerator by using multi-objective evolutionary algorithms (MOEAs). <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 1055-1070.	8.2	87
48	Thermodynamic and economic analysis of performance evaluation of all the thermal power plants: A review. <i>Energy Science and Engineering</i> , 2019, 7, 30-65.	1.9	87
49	Thermodynamic analysis and optimization of a waste heat recovery system for proton exchange membrane fuel cell using transcritical carbon dioxide cycle and cold energy of liquefied natural gas. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 34, 428-438.	2.1	85
50	Multi objective optimization of performance of three-heat-source irreversible refrigerators based algorithm NSGAI. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 784-794.	8.2	85
51	Thermodynamic and exergy analysis of a hydrogen and permeate water production process by a solar-driven transcritical CO <sub>2</sub> power cycle with liquefied natural gas heat sink. <i>Renewable Energy</i> , 2017, 113, 1215-1228.	4.3	83
52	Connectionist intelligent model estimates output power and torque of stirling engine. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 871-883.	8.2	80
53	Thermo-ecological analysis and optimization performance of an irreversible three-heat-source absorption heat pump. <i>Energy Conversion and Management</i> , 2015, 90, 175-183.	4.4	79
54	Thermodynamic analysis and optimization for an irreversible heat pump working on reversed Brayton cycle. <i>Energy Conversion and Management</i> , 2016, 110, 260-267.	4.4	79

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55	Generation and combination of the solar cells: A current model review. Energy Science and Engineering, 2019, 7, 305-322.	1.9	79
56	Predicting the efficiency of CuO/water nanofluid in heat pipe heat exchanger using neural network. International Communications in Heat and Mass Transfer, 2019, 104, 33-40.	2.9	79
57	Evaluation of the maximized power of a regenerative endoreversible Stirling cycle using the thermodynamic analysis. Energy Conversion and Management, 2013, 76, 561-570.	4.4	78
58	Energy, exergy and economic analyses of a novel system to recover waste heat and water in steam power plants. Energy Conversion and Management, 2017, 144, 351-360.	4.4	78
59	Thermodynamic analysis and optimization of an irreversible Ericsson cryogenic refrigerator cycle. Energy Conversion and Management, 2015, 89, 147-155.	4.4	76
60	Thermodynamic evaluation and multi-objective optimization of molten carbonate fuel cell-supercritical CO <sub>2</sub> Brayton cycle hybrid system. Energy Conversion and Management, 2017, 153, 538-556.	4.4	76
61	Thermodynamic optimization of Stirling heat pump based on multiple criteria. Energy Conversion and Management, 2014, 80, 319-328.	4.4	75
62	Evaluation of electrical efficiency of photovoltaic thermal solar collector. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 545-565.	1.5	75
63	Prediction of power in solar stirling heat engine by using neural network based on hybrid genetic algorithm and particle swarm optimization. Neural Computing and Applications, 2013, 22, 1141-1150.	3.2	73
64	Using GMDH Neural Networks to Model the Power and Torque of a Stirling Engine. Sustainability, 2015, 7, 2243-2255.	1.6	73
65	Prediction of Thermo-Physical Properties of TiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> /Water Nanoparticles by Using Artificial Neural Network. Nanomaterials, 2020, 10, 697.	1.9	71
66	A review on application of nanofluid in various types of heat pipes. Journal of Central South University, 2019, 26, 1021-1041.	1.2	67
67	Energy and exergy analyses of solid oxide fuel cell-gas turbine hybrid systems fed by different renewable biofuels: A comparative study. Journal of Cleaner Production, 2021, 280, 124383.	4.6	67
68	Design and exergy analysis of waste heat recovery system and gas engine for power generation in Tehran cement factory. Thermal Science and Engineering Progress, 2019, 9, 299-307.	1.3	65
69	Thermo-economic analysis and multi-objective optimization of a transcritical CO <sub>2</sub> power cycle driven by solar energy and LNG cold recovery. Thermal Science and Engineering Progress, 2017, 4, 185-196.	1.3	64
70	Overview on the Current Status of Hydrogen Energy Research and Development in India. Chemical Engineering and Technology, 2020, 43, 613-624.	0.9	63
71	Thermodynamic analysis and evolutionary algorithm based on multi-objective optimization performance of actual power generating thermal cycles. Applied Thermal Engineering, 2016, 99, 996-1005.	3.0	62
72	Exergy and exergo-economic analysis and optimization of a solar double pressure organic Rankine cycle. Thermal Science and Engineering Progress, 2018, 6, 72-86.	1.3	62

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73	Applying GMDH artificial neural network in modeling CO <sub>2</sub> emissions in four nordic countries. International Journal of Low-Carbon Technologies, 2018, 13, 266-271.	1.2	62
74	Experimental Investigation on Stability, Viscosity, and Electrical Conductivity of Water-Based Hybrid Nanofluid of MWCNT-Fe <sub>2</sub> O <sub>3</sub> . Nanomaterials, 2021, 11, 136.	1.9	62
75	Artificial neural network, ANN-PSO and ANN-ICA for modelling the Stirling engine. International Journal of Ambient Energy, 2016, 37, 456-468.	1.4	61
76	Energy, exergy and economics analysis of an ORC working with several fluids and utilizes smelting furnace gases as heat source. Thermal Science and Engineering Progress, 2018, 5, 230-237.	1.3	61
77	A review on the applications of micro-/nano-encapsulated phase change material slurry in heat transfer and thermal storage systems. Journal of Thermal Analysis and Calorimetry, 2021, 145, 245-268.	2.0	60
78	Optimization density power and thermal efficiency of an endoreversible Braysson cycle by using non-dominated sorting genetic algorithm. Energy Conversion and Management, 2015, 93, 31-39.	4.4	59
79	Optimization of powered Stirling heat engine with finite speed thermodynamics. Energy Conversion and Management, 2016, 108, 96-105.	4.4	59
80	Exergy and economic analyses of replacing feedwater heaters in a Rankine cycle with parabolic trough collectors. Energy Reports, 2018, 4, 243-251.	2.5	59
81	Performance Optimization of a Solar-Driven Multi-Step Irreversible Brayton Cycle Based on a Multi-Objective Genetic Algorithm. Oil and Gas Science and Technology, 2016, 71, 16.	1.4	57
82	Thermoeconomic analysis and multiobjective optimization of a combined gas turbine, steam, and organic Rankine cycle. Energy Science and Engineering, 2018, 6, 506-522.	1.9	57
83	Rigorous smart model for predicting dynamic viscosity of Al <sub>2</sub> O <sub>3</sub> /water nanofluid. Journal of Thermal Analysis and Calorimetry, 2019, 137, 307-316.	2.0	57
84	Experimental evaluation and artificial neural network modeling of thermal conductivity of water based nanofluid containing magnetic copper nanoparticles. Physica A: Statistical Mechanics and Its Applications, 2020, 551, 124127.	1.2	57
85	Optimum insulation thickness determination of a building wall using exergetic life cycle assessment. Applied Thermal Engineering, 2016, 106, 307-315.	3.0	55
86	Ground source heat pump carbon emissions and ground-source heat pump systems for heating and cooling of buildings: A review. Environmental Progress and Sustainable Energy, 2018, 37, 1241-1265.	1.3	55
87	Analysis of stakeholder roles and the challenges of solar energy utilization in Iran. International Journal of Low-Carbon Technologies, 2018, 13, 438-451.	1.2	55
88	Development of multilayer perceptron artificial neural network (MLP-ANN) and least square support vector machine (LSSVM) models to predict Nusselt number and pressure drop of TiO <sub>2</sub> /water nanofluid flows through non-straight pathways. Numerical Heat Transfer; Part A: Applications, 2018, 74, 1190-1206.	1.2	55
89	Parametric investigation of phosphoric acid fuel cell - Thermally regenerative electro chemical hybrid system. Journal of Cleaner Production, 2018, 203, 585-600.	4.6	55
90	GMDH modeling and experimental investigation of thermal performance enhancement of hemispherical cavity receiver using MWCNT/oil nanofluid. Solar Energy, 2018, 171, 790-803.	2.9	55

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91	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.	1.5	55
92	Thermo-economic and thermodynamic analysis and optimization of a two-stage irreversible heat pump. Energy Conversion and Management, 2015, 99, 81-91.	4.4	54
93	Modeling of heat transfer performance of carbon nanotube nanofluid in a tube with fixed wall temperature by using ANN-GA. European Physical Journal Plus, 2020, 135, 1.	1.2	54
94	Modeling and experimental verification of a 25W fabricated PEM fuel cell by parametric and GMDH-type neural network. Mechanics and Industry, 2016, 17, 105.	0.5	53
95	Optimization performance and thermodynamic analysis of an irreversible nano scale Brayton cycle operating with Maxwell-Boltzmann gas. Energy Conversion and Management, 2015, 101, 592-605.	4.4	52
96	Multi-objective performance optimization of irreversible molten carbonate fuel cell-Braysson heat engine and thermodynamic analysis with ecological objective approach. Energy, 2018, 144, 707-722.	4.5	52
97	Prediction and modeling of MWCNT/Carbon (60/40)/SAE 10 W 40/SAE 85 W 90(50/50) nanofluid viscosity using artificial neural network (ANN) and self-organizing map (SOM). Journal of Thermal Analysis and Calorimetry, 2018, 134, 2275-2286.	2.0	51
98	Energy and Exergy Analyses of a Solid Oxide Fuel Cell-Gas Turbine-Organic Rankine Cycle Power Plant with Liquefied Natural Gas as Heat Sink. Entropy, 2018, 20, 484.	1.1	51
99	Status of carbon capture and storage in India's coal fired power plants: A critical review. Environmental Technology and Innovation, 2019, 13, 94-103.	3.0	51
100	Application of N-doped carbon nanotube-supported Pt-Ru as electrocatalyst layer in passive direct methanol fuel cell. International Journal of Hydrogen Energy, 2020, 45, 25307-25316.	3.8	51
101	A review on solar-assisted gas turbines. Energy Science and Engineering, 2018, 6, 658-674.	1.9	49
102	Evolving connectionist approaches to compute thermal conductivity of $TiO_2$ /water nanofluid. Physica A: Statistical Mechanics and Its Applications, 2020, 540, 122489.	1.2	49
103	A review on the applications of intelligence methods in predicting thermal conductivity of nanofluids. Journal of Thermal Analysis and Calorimetry, 2019, 138, 827.	2.0	48
104	Optimal Load Frequency Control of Island Microgrids via a PID Controller in the Presence of Wind Turbine and PV. Sustainability, 2021, 13, 10728.	1.6	48
105	Technical, economic, and environmental modeling of solar water pump for irrigation of rice in Mazandaran province in Iran: A case study. Journal of Cleaner Production, 2019, 239, 118007.	4.6	47
106	Performance assessment and optimization of an irreversible nano-scale Stirling engine cycle operating with Maxwell-Boltzmann gas. European Physical Journal Plus, 2015, 130, 1.	1.2	46
107	Designing a powered combined Otto and Stirling cycle power plant through multi-objective optimization approach. Renewable and Sustainable Energy Reviews, 2016, 62, 585-595.	8.2	46
108	ANN model to predict the performance of parabolic dish collector with tubular cavity receiver. Mechanics and Industry, 2017, 18, 408.	0.5	46



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109	Theoretical and experimental studies of heat transfer in a double-pipe heat exchanger equipped with twisted tape and nanofluid. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	46
110	Thermodynamic analysis and evolutionary algorithm based on multi-objective optimization of performance for irreversible four-temperature-level refrigeration. <i>Mechanics and Industry</i> , 2015, 16, 207.	0.5	45
111	Optimisation of the thermodynamic performance of the Stirling engine. <i>International Journal of Ambient Energy</i> , 2016, 37, 149-161.	1.4	45
112	Exergetic sustainability evaluation and multi-objective optimization of performance of an irreversible nanoscale Stirling refrigeration cycle operating with Maxwell-Boltzmann gas. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 78, 80-92.	8.2	45
113	Connectionist intelligent model estimates of convective heat transfer coefficient of nanofluids in circular cross-sectional channels. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 1213-1239.	2.0	45
114	Geothermal energy use in hydrogen production: A review. <i>International Journal of Energy Research</i> , 2019, 43, 7823.	2.2	45
115	Thermodynamic analyses of different scenarios in a CCHP system with micro turbine – Absorption chiller, and heat exchanger. <i>Energy Conversion and Management</i> , 2019, 198, 111919.	4.4	45
116	Applying GMDH neural network to estimate the thermal resistance and thermal conductivity of pulsating heat pipes. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 327-336.	1.5	45
117	Thermal conductivity and dynamic viscosity modeling of Fe <sub>2</sub> O <sub>3</sub> /water nanofluid by applying various connectionist approaches. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018, 74, 1301-1322.	1.2	44
118	Exergoeconomic analysis and optimization of a transcritical CO <sub>2</sub> power cycle driven by solar energy based on nanofluid with liquefied natural gas as its heat sink. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 451-473.	2.0	44
119	Multi-Criteria Decision Making (MCDM) Approach for Selecting Solar Plants Site and Technology: A Review. <i>International Journal of Renewable Energy Development</i> , 2019, 8, 15-25.	1.2	43
120	Current status and future forecasting of biofuels technology development. <i>International Journal of Energy Research</i> , 2019, 43, 1142-1160.	2.2	43
121	An insight into the prediction of TiO <sub>2</sub> /water nanofluid viscosity through intelligence schemes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2381-2394.	2.0	42
122	Comparative performance analyses of molten carbonate fuel cell-alkali metal thermal to electric converter and molten carbonate fuel cell-thermo-electric generator hybrid systems. <i>Energy Reports</i> , 2020, 6, 10-16.	2.5	42
123	The effect of hydrodynamic and ultrasonic cavitation on biodiesel production: An exergy analysis approach. <i>Energy</i> , 2018, 160, 478-489.	4.5	41
124	Applicability of connectionist methods to predict thermal resistance of pulsating heat pipes with ethanol by using neural networks. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 1079-1086.	2.5	41
125	Prediction of the pressure drop for CuO/(Ethylene glycol-water) nanofluid flows in the car radiator by means of Artificial Neural Networks analysis integrated with genetic algorithm. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 546, 124008.	1.2	41
126	Optimization of Output Power and Thermal Efficiency of Solar Dish Stirling Engine Using Finite Time Thermodynamic Analysis. <i>Heat Transfer - Asian Research</i> , 2015, 44, 347-376.	2.8	40



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127	GMDH algorithm for modeling the outlet temperatures of a solar chimney based on the ambient temperature. <i>Mechanics and Industry</i> , 2017, 18, 216.	0.5	40
128	Determination of thermal conductivity ratio of CuO/ethylene glycol nanofluid by connectionist approach. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 91, 383-395.	2.7	40
129	Energy, environment and economic analyses of a parabolic trough concentrating photovoltaic/thermal system. <i>International Journal of Low-Carbon Technologies</i> , 2021, 16, 570-576.	1.2	40
130	Impacts of Traffic Tidal Flow on Pollutant Dispersion in a Non-Uniform Urban Street Canyon. <i>Atmosphere</i> , 2018, 9, 82.	1.0	39
131	Energy, Exergy analysis and performance evaluation of a vacuum evaporator for solar thermal power plant Zero Liquid Discharge Systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 1275-1290.	2.0	39
132	Meeting the Electrical Energy Needs of a Residential Building with a Wind-Photovoltaic Hybrid System. <i>Sustainability</i> , 2015, 7, 2554-2569.	1.6	37
133	Process development and thermodynamic analysis of a novel power generation plant driven by geothermal energy with liquefied natural gas as its heat sink. <i>Applied Thermal Engineering</i> , 2018, 133, 645-658.	3.0	37
134	Thermo-economic and exergy assessment and optimization of performance of a hydrogen production system by using geothermal energy. <i>Energy and Environment</i> , 2018, 29, 1373-1392.	2.7	37
135	Optimization methods using artificial intelligence algorithms to estimate thermal efficiency of <math>PV/T</math> system. <i>Energy Science and Engineering</i> , 2019, 7, 821-834.	1.9	36
136	Heat transfer enhancement of a microchannel heat sink with the combination of impinging jets, dimples, and side outlets. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 45-56.	2.0	36
137	Thermo-economic modeling and optimization of an irreversible solar-driven heat engine. <i>Energy Conversion and Management</i> , 2015, 103, 616-622.	4.4	35
138	Optimal Design of a Solar-Driven Heat Engine Based on Thermal and Ecological Criteria. <i>Journal of Energy Engineering - ASCE</i> , 2015, 141, .	1.0	35
139	A review on using nanofluids in heat pipes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1847-1855.	2.0	35
140	Thermal performance enhancement in heat exchangers using active and passive techniques: a detailed review. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 9229-9281.	2.0	35
141	Thermodynamic model to study a solar collector for its application to Stirling engines. <i>Energy Conversion and Management</i> , 2014, 79, 666-673.	4.4	34
142	Precise smart model for estimating dynamic viscosity of SiO <sub>2</sub> /ethylene glycol-water nanofluid. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 1095-1105.	1.5	34
143	Modeling and improvement of solid oxide fuel cell-single effect absorption chiller hybrid system by using nanofluids as heat transporters. <i>Applied Thermal Engineering</i> , 2020, 166, 114707.	3.0	34
144	Magnetohydrodynamic convection behaviours of nanofluids in non-square enclosures: A comprehensive review. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	34

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145	Performance enhancement of a solar still using magnetic powder as an energy storage medium – energy and environmental analysis. <i>Energy Science and Engineering</i> , 2022, 10, 3154-3166.	1.9	34
146	Electricity price forecasting using neural networks with an improved iterative training algorithm. <i>International Journal of Ambient Energy</i> , 2018, 39, 147-158.	1.4	33
147	Precise prediction of biogas thermodynamic properties by using ANN algorithm. <i>Renewable Energy</i> , 2020, 147, 179-191.	4.3	32
148	Medical and dental applications of renewable energy systems. <i>International Journal of Low-Carbon Technologies</i> , 2018, 13, 320-326.	1.2	31
149	Towards experimental and modeling study of heat transfer performance of water- SiO <sub>2</sub> nanofluid in quadrangular cross-section channels. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 453-469.	1.5	31
150	Solar driven Stirling engine - chemical heat pump - absorption refrigerator hybrid system as environmental friendly energy system. <i>Journal of Environmental Management</i> , 2019, 232, 455-461.	3.8	31
151	Investigating the effect of using <scp>PCM</scp> in building materials for energy saving: Case study of Sharif Energy Research Institute. <i>Energy Science and Engineering</i> , 2020, 8, 959-972.	1.9	31
152	Numerical simulation of pressure pulsation effects of a snubber in a CNG station for increasing measurement accuracy. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 642-663.	1.5	30
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