

Mohammad H Ahmadi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

302
papers

10,035
citations

57
h-index

82
g-index

310
ext. papers

12,039
ext. citations

4.6
avg, IF

7.35
L-index

#	Paper	IF	Citations
302	A review of thermal conductivity of various nanofluids. <i>Journal of Molecular Liquids</i> , 2018 , 265, 181-188	6	222
301	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	10.6	192
300	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	10.6	164
299	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	8.1	163
298	Thermo-economic multi-objective optimization of solar dish-Stirling engine by implementing evolutionary algorithm. <i>Energy Conversion and Management</i> , 2013 , 73, 370-380	10.6	157
297	Thermoelectric cooler and thermoelectric generator devices: A review of present and potential applications, modeling and materials. <i>Energy</i> , 2019 , 186, 115849	7.9	155
296	Solar power technology for electricity generation: A critical review. <i>Energy Science and Engineering</i> , 2018 , 6, 340-361	3.4	146
295	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	10.6	144
294	Application of Nanofluids in Thermal Performance Enhancement of Parabolic Trough Solar Collector: State-of-the-Art. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 463	2.6	134
293	Experimental and numerical analysis of a nanofluidic thermosyphon heat exchanger. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 40-47	4.5	133
292	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	5.8	129
291	Techno-economic assessment of a Kalina cycle driven by a parabolic Trough solar collector. <i>Energy Conversion and Management</i> , 2015 , 105, 1328-1339	10.6	125
290	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	6.8	125
289	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	5.1	103
288	Multi-objective optimization of Stirling engine using non-ideal adiabatic method. <i>Energy Conversion and Management</i> , 2014 , 80, 54-62	10.6	102
287	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	5.8	102
286	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	10.6	102

285	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	4.9	94
284	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	4.1	94
283	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	10.6	90
282	Factorial experimental design for the thermal performance of a double pipe heat exchanger using Al ₂ O ₃ -TiO ₂ hybrid nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2018 , 97, 92-102	5.8	90
281	Thermal models for analysis of performance of Stirling engine: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 68, 168-184	16.2	89
280	Thermodynamic and exergy analysis and optimization of a transcritical CO ₂ power cycle driven by geothermal energy with liquefied natural gas as its heat sink. <i>Applied Thermal Engineering</i> , 2016 , 109, 640-652	5.8	88
279	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	10.6	88
278	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	10.6	88
277	Exergy analysis of a hydrogen and water production process by a solar-driven transcritical CO ₂ power cycle with Stirling engine. <i>Journal of Cleaner Production</i> , 2017 , 158, 165-181	10.3	87
276	Multi-objective optimization of an irreversible Stirling cryogenic refrigerator cycle. <i>Energy Conversion and Management</i> , 2014 , 82, 351-360	10.6	87
275	Thermo-economic optimization of Stirling heat pump by using non-dominated sorting genetic algorithm. <i>Energy Conversion and Management</i> , 2015 , 91, 315-322	10.6	86
274	Thermodynamic and thermo-economic analysis and optimization of an irreversible regenerative closed Brayton cycle. <i>Energy Conversion and Management</i> , 2015 , 94, 124-129	10.6	85
273	A review on pulsating heat pipes: From solar to cryogenic applications. <i>Applied Energy</i> , 2018 , 222, 475-484	10.7	84
272	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	16.2	82
271	Battery thermal management system employing phase change material with cell-to-cell air cooling. <i>Applied Thermal Engineering</i> , 2019 , 161, 114-119	5.8	81
270	Utilization of hybrid nanofluids in solar energy applications: A review. <i>Nano Structures Nano Objects</i> , 2019 , 20, 100386	5.6	80
269	Thermal conductivity ratio prediction of Al ₂ O ₃ /water nanofluid by applying connectionist methods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 541, 154-164	5.1	80
268	Application of nanofluids in thermosyphons: A review. <i>Journal of Molecular Liquids</i> , 2018 , 272, 395-402	6	80

267	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	16.2	78
266	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	4.9	78
265	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	16.2	75
264	A proposed model to predict thermal conductivity ratio of Al ₂ O ₃ /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	4.1	75
263	Connectionist intelligent model estimates output power and torque of stirling engine. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 50, 871-883	16.2	74
262	Renewable energy harvesting with the application of nanotechnology: A review. <i>International Journal of Energy Research</i> , 2019 , 43, 1387-1410	4.5	72
261	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	3.4	71
260	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	10.6	69
259	Thermodynamic analysis and optimization of an irreversible Ericsson cryogenic refrigerator cycle. <i>Energy Conversion and Management</i> , 2015 , 89, 147-155	10.6	69
258	Evaluation of the maximized power of a regenerative endoreversible Stirling cycle using the thermodynamic analysis. <i>Energy Conversion and Management</i> , 2013 , 76, 561-570	10.6	69
257	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	4.5	69
256	Thermodynamic and exergy analysis of a hydrogen and permeate water production process by a solar-driven transcritical CO ₂ power cycle with liquefied natural gas heat sink. <i>Renewable Energy</i> , 2017 , 113, 1215-1228	8.1	68
255	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	16.2	68
254	Thermodynamic analysis and optimization for an irreversible heat pump working on reversed Brayton cycle. <i>Energy Conversion and Management</i> , 2016 , 110, 260-267	10.6	67
253	Thermodynamic optimization of Stirling heat pump based on multiple criteria. <i>Energy Conversion and Management</i> , 2014 , 80, 319-328	10.6	66
252	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	4.6	64
251	Using GMDH Neural Networks to Model the Power and Torque of a Stirling Engine. <i>Sustainability</i> , 2015 , 7, 2243-2255	3.6	64
250	Energy, exergy and economic analyses of a novel system to recover waste heat and water in steam power plants. <i>Energy Conversion and Management</i> , 2017 , 144, 351-360	10.6	62

249	Predicting the efficiency of CuO/water nanofluid in heat pipe heat exchanger using neural network. <i>International Communications in Heat and Mass Transfer</i> , 2019 , 104, 33-40	5.8	59
248	Heat transfer and entropy generation of the nanofluid flow inside sinusoidal wavy channels. <i>Journal of Molecular Liquids</i> , 2018 , 269, 229-240	6	59
247	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	4.1	59
246	Prediction of power in solar Stirling heat engine by using neural network based on hybrid genetic algorithm and particle swarm optimization. <i>Neural Computing and Applications</i> , 2013 , 22, 1141-1150	4.8	58
245	Optimization density power and thermal efficiency of an endoreversible Braysson cycle by using non-dominated sorting genetic algorithm. <i>Energy Conversion and Management</i> , 2015 , 93, 31-39	10.6	56
244	Thermodynamic evaluation and multi-objective optimization of molten carbonate fuel cell-supercritical CO ₂ Brayton cycle hybrid system. <i>Energy Conversion and Management</i> , 2017 , 153, 538-556	10.6	55
243	Cooling performance of nanofluid submerged vs. nanofluid circulated battery thermal management systems. <i>Journal of Cleaner Production</i> , 2019 , 240, 118131	10.3	54
242	A review on the approaches applied for cooling fuel cells. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 139, 517-525	4.9	54
241	Thermodynamic analysis and evolutionary algorithm based on multi-objective optimization performance of actual power generating thermal cycles. <i>Applied Thermal Engineering</i> , 2016 , 99, 996-1005	5.8	52
240	Thermo-economic and thermodynamic analysis and optimization of a two-stage irreversible heat pump. <i>Energy Conversion and Management</i> , 2015 , 99, 81-91	10.6	51
239	Exergy and economic analyses of replacing feedwater heaters in a Rankine cycle with parabolic trough collectors. <i>Energy Reports</i> , 2018 , 4, 243-251	4.6	51
238	Exergy and exergo-economic analysis and optimization of a solar double pressure organic Rankine cycle. <i>Thermal Science and Engineering Progress</i> , 2018 , 6, 72-86	3.6	51
237	Performance Optimization of a Solar-Driven Multi-Step Irreversible Brayton Cycle Based on a Multi-Objective Genetic Algorithm. <i>Oil and Gas Science and Technology</i> , 2016 , 71, 16	1.9	50
236	Optimization performance and thermodynamic analysis of an irreversible nano scale Brayton cycle operating with Maxwell-Boltzmann gas. <i>Energy Conversion and Management</i> , 2015 , 101, 592-605	10.6	49
235	Optimization of powered Stirling heat engine with finite speed thermodynamics. <i>Energy Conversion and Management</i> , 2016 , 108, 96-105	10.6	49
234	Thermo-economic analysis and multi-objective optimization of a transcritical CO ₂ power cycle driven by solar energy and LNG cold recovery. <i>Thermal Science and Engineering Progress</i> , 2017 , 4, 185-196	3.6	48
233	Artificial neural network, ANN-PSO and ANN-ICA for modelling the Stirling engine. <i>International Journal of Ambient Energy</i> , 2016 , 37, 456-468	2	48
232	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	3.4	48

231	A review on application of nanofluid in various types of heat pipes. <i>Journal of Central South University</i> , 2019 , 26, 1021-1041	2.1	47
230	Optimum insulation thickness determination of a building wall using exergetic life cycle assessment. <i>Applied Thermal Engineering</i> , 2016 , 106, 307-315	5.8	47
229	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	4.5	47
228	Multi-objective performance optimization of irreversible molten carbonate fuel cell Braysson heat engine and thermodynamic analysis with ecological objective approach. <i>Energy</i> , 2018 , 144, 707-722	7.9	46
227	Design and exergy analysis of waste heat recovery system and gas engine for power generation in Tehran cement factory. <i>Thermal Science and Engineering Progress</i> , 2019 , 9, 299-307	3.6	45
226	Performance assessment and optimization of an irreversible nano-scale Stirling engine cycle operating with Maxwell-Boltzmann gas. <i>European Physical Journal Plus</i> , 2015 , 130, 1	3.1	44
225	Energy, exergy and economics analysis of an ORC working with several fluids and utilizes smelting furnace gases as heat source. <i>Thermal Science and Engineering Progress</i> , 2018 , 5, 230-237	3.6	44
224	Rigorous smart model for predicting dynamic viscosity of Al ₂ O ₃ /water nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 137, 307-316	4.1	44
223	GMDH modeling and experimental investigation of thermal performance enhancement of hemispherical cavity receiver using MWCNT/oil nanofluid. <i>Solar Energy</i> , 2018 , 171, 790-803	6.8	43
222	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 ^{0.8}		43
221	Evaluation of electrical efficiency of photovoltaic thermal solar collector. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 545-565	4.5	42
220	Applying GMDH artificial neural network in modeling CO ₂ emissions in four nordic countries. <i>International Journal of Low-Carbon Technologies</i> , 2018 , 13, 266-271	2.8	42
219	Evolving connectionist approaches to compute thermal conductivity of TiO ₂ /water nanofluid. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 540, 122489	3.3	42
218	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	16.2	41
217	Generation and combination of the solar cells: A current model review. <i>Energy Science and Engineering</i> , 2019 , 7, 305-322	3.4	41
216	Applicability of connectionist methods to predict dynamic viscosity of silver/water nanofluid by using ANN-MLP, MARS and MPR algorithms. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 220-228	4.5	40
215	Optimisation of the thermodynamic performance of the Stirling engine. <i>International Journal of Ambient Energy</i> , 2016 , 37, 149-161	2	40
214	Designing a powered combined Otto and Stirling cycle power plant through multi-objective optimization approach. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 62, 585-595	16.2	40

213	Prediction of Thermo-Physical Properties of TiO-ALO/Water Nanoparticles by Using Artificial Neural Network. <i>Nanomaterials</i> , 2020 , 10,	5.4	40
212	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 ₂ /water nanofluid flows through non-straight pathways. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018 , 74, 1198-1206	2.3	40
211	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	39
210	Modeling of heat transfer performance of carbon nanotube nanofluid in a tube with fixed wall temperature by using ANNs. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	39
209	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). <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 134, 2275-2286	4.1	39
208	Modeling and experimental verification of a 25W fabricated PEM fuel cell by parametric and GMDH-type neural network. <i>Mechanics and Industry</i> , 2016 , 17, 105	0.8	38
207	Energy and Exergy Analyses of a Solid Oxide Fuel Cell-Gas Turbine-Organic Rankine Cycle Power Plant with Liquefied Natural Gas as Heat Sink. <i>Entropy</i> , 2018 , 20,	2.8	38
206	Thermoeconomic analysis and multiobjective optimization of a combined gas turbine, steam, and organic Rankine cycle. <i>Energy Science and Engineering</i> , 2018 , 6, 506-522	3.4	38
205	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	5.3	37
204	Ground source heat pump carbon emissions and ground-source heat pump systems for heating and cooling of buildings: A review. <i>Environmental Progress and Sustainable Energy</i> , 2018 , 37, 1241-1265	2.5	37
203	Thermodynamic analyses of different scenarios in a CCHP system with micro turbine Δ Absorption chiller, and heat exchanger. <i>Energy Conversion and Management</i> , 2019 , 198, 111919	10.6	36
202	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	4.5	36
201	A review on the applications of intelligence methods in predicting thermal conductivity of nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 138, 827	4.1	36
200	Experimental evaluation and artificial neural network modeling of thermal conductivity of water based nanofluid containing magnetic copper nanoparticles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 551, 124127	3.3	36
199	Thermal conductivity and dynamic viscosity modeling of Fe ₂ O ₃ /water nanofluid by applying various connectionist approaches. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018 , 74, 1301-1322	2.3	36
198	ANN model to predict the performance of parabolic dish collector with tubular cavity receiver. <i>Mechanics and Industry</i> , 2017 , 18, 408	0.8	35
197	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	4.1	34
196	Experimental Investigation on Stability, Viscosity, and Electrical Conductivity of Water-Based Hybrid Nanofluid of MWCNT-FeO. <i>Nanomaterials</i> , 2021 , 11,	5.4	34

- 195 Thermodynamic model to study a solar collector for its application to Stirling engines. *Energy Conversion and Management*, **2014**, 79, 666-673 10.6 33
- 194 Energy, Exergy analysis and performance evaluation of a vacuum evaporator for solar thermal power plant Zero Liquid Discharge Systems. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 1275-1290 4.1 33
- 193 An insight into the prediction of TiO₂/water nanofluid viscosity through intelligence schemes. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 2381-2394 4.1 33
- 192 Thermo-economic modeling and optimization of an irreversible solar-driven heat engine. *Energy Conversion and Management*, **2015**, 103, 616-622 10.6 32
- 191 Analysis of stakeholder roles and the challenges of solar energy utilization in Iran. *International Journal of Low-Carbon Technologies*, **2018**, 13, 438-451 2.8 32
- 190 Optimal Design of a Solar-Driven Heat Engine Based on Thermal and Ecological Criteria. *Journal of Energy Engineering - ASCE*, **2015**, 141, 04014012 1.7 31
- 189 Process development and thermodynamic analysis of a novel power generation plant driven by geothermal energy with liquefied natural gas as its heat sink. *Applied Thermal Engineering*, **2018**, 133, 645-658 5.8 31
- 188 Parametric investigation of phosphoric acid fuel cell - Thermally regenerative electro chemical hybrid system. *Journal of Cleaner Production*, **2018**, 203, 585-600 10.3 30
- 187 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. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 546, 124008 3.3 30
- 186 Applicability of connectionist methods to predict thermal resistance of pulsating heat pipes with ethanol by using neural networks. *International Journal of Heat and Mass Transfer*, **2018**, 126, 1079-1086 4.9 30
- 185 Overview on the Current Status of Hydrogen Energy Research and Development in India. *Chemical Engineering and Technology*, **2020**, 43, 613-624 2 29
- 184 Geothermal energy use in hydrogen production: A review. *International Journal of Energy Research*, **2019**, 43, 7823 4.5 29
- 183 Exergoeconomic analysis and optimization of a transcritical CO₂ power cycle driven by solar energy based on nanofluid with liquefied natural gas as its heat sink. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 451-473 4.1 29
- 182 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 10.3 29
- 181 The effect of hydrodynamic and ultrasonic cavitation on biodiesel production: An exergy analysis approach. *Energy*, **2018**, 160, 478-489 7.9 29
- 180 Multi-Criteria Decision Making (MCDM) Approach for Selecting Solar Plants Site and Technology: A Review. *International Journal of Renewable Energy Development*, **2019**, 8, 15 1.5 28
- 179 Thermo-economic and exergy assessment and optimization of performance of a hydrogen production system by using geothermal energy. *Energy and Environment*, **2018**, 29, 1373-1392 2.4 28
- 178 Meeting the Electrical Energy Needs of a Residential Building with a Wind-Photovoltaic Hybrid System. *Sustainability*, **2015**, 7, 2554-2569 3.6 28

177	Current status and future forecasting of biofuels technology development. <i>International Journal of Energy Research</i> , 2019 , 43, 1142-1160	4.5	28
176	A review on solar-assisted gas turbines. <i>Energy Science and Engineering</i> , 2018 , 6, 658-674	3.4	28
175	GMDH algorithm for modeling the outlet temperatures of a solar chimney based on the ambient temperature. <i>Mechanics and Industry</i> , 2017 , 18, 216	0.8	27
174	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	3.1	27
173	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	4.5	26
172	Precise smart model for estimating dynamic viscosity of SiO ₂ /ethylene glycol/water nanofluid. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 1095-1105	4.5	26
171	Application of N-doped carbon nanotube-supported Pt-Ru as electrocatalyst layer in passive direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 25307-25316	6.7	26
170	Impacts of Traffic Tidal Flow on Pollutant Dispersion in a Non-Uniform Urban Street Canyon. <i>Atmosphere</i> , 2018 , 9, 82	2.7	26
169	Towards experimental and modeling study of heat transfer performance of water- SiO ₂ nanofluid in quadrangular cross-section channels. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 453-469	4.5	25
168	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	4.6	25
167	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	5.8	25
166	Thermodynamic analysis and optimisation of an irreversible radiative-type heat engine by using non-dominated sorting genetic algorithm. <i>International Journal of Ambient Energy</i> , 2016 , 37, 403-408	2	25
165	Status of carbon capture and storage in India's coal fired power plants: A critical review. <i>Environmental Technology and Innovation</i> , 2019 , 13, 94-103	7	25
164	Exergy analysis of a hybrid solar-fossil fuel power plant. <i>Energy Science and Engineering</i> , 2019 , 7, 146-161	3.4	24
163	A review on the applications of micro-/nano-encapsulated phase change material slurry in heat transfer and thermal storage systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 245-268	4.1	24
162	Thermodynamic analysis and optimization of the Atkinson engine by using NSGA-II. <i>International Journal of Low-Carbon Technologies</i> , 2016 , 11, 317-324	2.8	23
161	A review on using nanofluids in heat pipes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 137, 1847-1855	4.85	23
160	Numerical investigation into mutual effects of soil thermal and isothermal properties on heat and moisture transfer in unsaturated soil applied as thermal storage system. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018 , 73, 466-481	2.3	23

159	Study of particle migration and deposition in mixed convective pipe flow of nanofluids at different inclination angles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 1563-1575	4.1	23
158	Technical, economic, and environmental modeling of solar water pump for irrigation of rice in Mazandaran province in Iran: A case study. <i>Journal of Cleaner Production</i> , 2019 , 239, 118007	10.3	22
157	Optimization methods using artificial intelligence algorithms to estimate thermal efficiency of PV/T system. <i>Energy Science and Engineering</i> , 2019 , 7, 821-834	3.4	22
156	Magnetohydrodynamic convection behaviours of nanofluids in non-square enclosures: A comprehensive review. <i>Mathematical Methods in the Applied Sciences</i> , 2020 ,	2.3	22
155	Combination of baffling technique and high-thermal conductivity fluids to enhance the overall performances of solar channels. <i>Engineering With Computers</i> , 2020 , 1	4.5	22
154	Aggregation study of Brownian nanoparticles in convective phenomena. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 111-121	4.1	22
153	Thermodynamic analysis and evolutionary algorithm based on multi-objective optimisation of the Rankine cycle heat engine. <i>International Journal of Ambient Energy</i> , 2016 , 37, 363-371	2	21
152	Optimal design of an Otto cycle based on thermal criteria. <i>Mechanics and Industry</i> , 2016 , 17, 111	0.8	21
151	Optimizing flow properties of the different nanofluids inside a circular tube by using entropy generation minimization approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 801-811	4.1	21
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149	Application GMDH artificial neural network for modeling of Al ₂ O ₃ /water and Al ₂ O ₃ /Ethylene glycol thermal conductivity. <i>International Journal of Heat and Technology</i> , 2018 , 36, 773-782	2.2	20
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