

Mohammad H Ahmadi

List of Publications by Year in Descending Order

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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	Energy, Exergy, Exergoeconomic and Energy-Based Exergoeconomic (Emergoeconomic) Analyses of a Biomass Combustion Waste Heat Recovery Organic Rankine Cycle.. <i>Entropy</i> , 2022 , 24,	2.8	1
301	A Thorough Economic Evaluation by Implementing Solar/Wind Energies for Hydrogen Production: A Case Study. <i>Sustainability</i> , 2022 , 14, 1177	3.6	4
300	The impact of employing a magnetic field as well as Fe3O4 nanoparticles on the performance of phase change materials. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022 , 16, 196-214	4.5	1
299	Comparative Analysis of Five Widely-Used Multi-Criteria Decision-Making Methods to Evaluate Clean Energy Technologies: A Case Study. <i>Sustainability</i> , 2022 , 14, 1403	3.6	4
298	Hybrid solar desalination system for generation electricity and freshwater with nanofluid application: Energy, exergy, and environmental aspects. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 50, 101716	4.7	3
297	Energy/Economic Analysis and Optimization of On-Grid Photovoltaic System Using CPSO Algorithm. <i>Sustainability</i> , 2021 , 13, 12420	3.6	11
296	An integrated CCHP system based on biomass and natural gas co-firing: Exergetic and thermo-economic assessments in the framework of energy nexus. <i>Energy Nexus</i> , 2021 , 5, 100016		7
295	The effect of some metal oxide nanocomposites on the pulsating heat pipe performance. <i>Energy Reports</i> , 2021 , 7, 8825-8833	4.6	0
294	A Solution to Prevent a Blackout Crisis: Determining the Behavioral Potential and Capacity of Solar Power. <i>International Journal of Photoenergy</i> , 2021 , 2021, 1-22	2.1	2
293	An innovative hybrid structure of solar PV-driven air separation unit, molten carbonate fuel cell, and absorption-compression refrigeration system (Process development and exergy analysis). <i>Energy Reports</i> , 2021 , 7, 8960-8972	4.6	3
292	Thermal boundary condition analysis of cooling objects exposed to a free impinging jet using the heatline concept. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1919-1931	4.5	0
291	Evaluation of the accuracy of soft computing learning algorithms in performance prediction of tidal turbine. <i>Energy Science and Engineering</i> , 2021 , 9, 633-644	3.4	2
290	Portfolio optimization of power plants by using renewable energy in Iran. <i>International Journal of Low-Carbon Technologies</i> , 2021 , 16, 463-475	2.8	1
289	Performance of heat transfer mechanism in nucleate pool boiling -a relative approach of contribution to various heat transfer components. <i>Case Studies in Thermal Engineering</i> , 2021 , 24, 100827	5.6	5
288	Evaluation of sustainable energy performance for OECD countries. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2021 , 16, 491-514	3.1	6
287	Multi-objective optimization of tubular solid oxide fuel cells fed by natural gas: an energetic and exergetic simultaneous optimization. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 1575-1583	4.1	1
286	Status of direct and indirect solar desalination methods: comprehensive review. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	10

285	Improvement and Nocturnal Extension of the Efficiency of a Solar Still. <i>International Journal of Photoenergy</i> , 2021 , 2021, 1-11	2.1	4
284	Space cooling using geothermal single-effect water/lithium bromide absorption chiller. <i>Energy Science and Engineering</i> , 2021 , 9, 1747	3.4	8
283	The impacts of utilizing nano-encapsulated PCM along with RGO nanosheets in a pulsating heat pipe, a comparative study. <i>International Journal of Energy Research</i> , 2021 , 45, 19481	4.5	5
282	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
281	Investigation and modeling of energy consumption of tall office buildings in Iran's 'hot-arid' and 'cold' climate conditions. <i>International Journal of Low-Carbon Technologies</i> , 2021 , 16, 21-34	2.8	2
280	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
279	The economic viability of a thermal power plant: a case study. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 2625-2631	4.1	3
278	An experimental investigation into the melting of phase change material using Fe ₃ O ₄ magnetic nanoparticles under magnetic field. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 146, 381-392	4.1	2
277	Energy and exergy analyses of solid oxide fuel cell-gas turbine hybrid systems fed by different renewable biofuels: A comparative study. <i>Journal of Cleaner Production</i> , 2021 , 280, 124383	10.3	29
276	Thermodynamic and thermoeconomic analyses and energetic and exergetic optimization of a turbojet engine. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 909-923	4.1	6
275	Technical and environmental analysis of photovoltaic and solar water heater cogeneration system: a case study of Saveh City. <i>International Journal of Low-Carbon Technologies</i> , 2021 , 16, 447-453	2.8	13
274	Enhancement of the turbulent convective heat transfer in channels through the baffling technique and oil/multiwalled carbon nanotube nanofluids. <i>Numerical Heat Transfer; Part A: Applications</i> , 2021 , 79, 311-351	2.3	16
273	Renewable hybrid energy systems using geothermal energy: hybrid solar thermal-geothermal power plant. <i>International Journal of Low-Carbon Technologies</i> , 2021 , 16, 518-530	2.8	15
272	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	2.8	16
271	RAM analysis and availability optimization of thermal power plant water circulation system using PSO. <i>Energy Reports</i> , 2021 , 7, 1133-1153	4.6	8
270	Thermodynamic assessment and performance optimization of solid oxide fuel cell-Stirling heat engine-reverse osmosis desalination. <i>International Journal of Low-Carbon Technologies</i> , 2021 , 16, 417-428	2.8	4
269	New passive thermal comfort system using three renewable energies: Wind catcher, solar chimney and earth to air heat exchanger integrated to real-scale test room in arid region (Experimental study). <i>International Journal of Energy Research</i> , 2021 , 45, 2177-2194	4.5	9
268	Performance evaluation of a U-shaped heat exchanger containing hybrid Cu/CNTs nanofluids: experimental data and modeling using regression and artificial neural network. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 1503-1521	4.1	4

267	Effects of in-line deflectors on the overall performance of a channel heat exchanger. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 512-529	4.5	5
266	Experimental Investigation on Stability, Viscosity, and Electrical Conductivity of Water-Based Hybrid Nanofluid of MWCNT-FeO. <i>Nanomaterials</i> , 2021 , 11,	5.4	34
265	Optimization of combined Reverse Osmosis: thermal Zero Liquid Discharge system parameters for an Ammonia and Urea production complex. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 144, 1863-1871	4.1	17
264	Exergetic dimensions of energy systems and processes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 631-634	4.1	0
263	Predicting Parameters of Heat Transfer in a Shell and Tube Heat Exchanger Using Aluminum Oxide Nanofluid with Artificial Neural Network (ANN) and Self-Organizing Map (SOM). <i>Sustainability</i> , 2021 , 13, 8824	3.6	5
262	Optimal Load Frequency Control of Island Microgrids via a PID Controller in the Presence of Wind Turbine and PV. <i>Sustainability</i> , 2021 , 13, 10728	3.6	17
261	Multi-objective optimization assessment of a new integrated scheme for co-production of natural gas liquids and liquefied natural gas. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101493	4.7	2
260	Experimental investigation and prediction of changes in thermal conductivity of carbon nanotube nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 127, 105526	5.8	0
259	A solar-driven plant to produce power, cooling, freshwater, and hot water for an industrial complex. <i>Energy Reports</i> , 2021 , 7, 5344-5358	4.6	5
258	Nanofluid flow and shear layers between two parallel plates: a simulation approach. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 1536-1545	4.5	6
257	Magnetohydrodynamic convection behaviours of nanofluids in non-square enclosures: A comprehensive review. <i>Mathematical Methods in the Applied Sciences</i> , 2020 ,	2.3	22
256	Markov-based performance evaluation and availability optimization of the boiler furnace system in coal-fired thermal power plant using PSO. <i>Energy Reports</i> , 2020 , 6, 1124-1134	4.6	9
255	Solar flux distribution study in heat pipe cavity receiver integrated with biomass gasifier. <i>International Journal of Energy Research</i> , 2020 , 44, 7698-7712	4.5	7
254	Energy and exergy analyzing of a wind turbine in free stream and wind tunnel in CFD domain based on actuator disc technique. <i>Renewable Energy</i> , 2020 , 160, 231-249	8.1	8
253	Sensitivity analysis of a parabolic trough concentrator with linear V-shape cavity. <i>Energy Science and Engineering</i> , 2020 , 8, 3544-3560	3.4	6
252	Dimensional synthesis of the Stirling engine based on optimizing the output work by evolutionary algorithms. <i>Energy Reports</i> , 2020 , 6, 1468-1486	4.6	12
251	Application of M5 tree regression, MARS, and artificial neural network methods to predict the Nusselt number and output temperature of CuO based nanofluid flows in a car radiator. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 116, 104667	5.8	11
250	Evaluation of electrical efficiency of photovoltaic thermal solar collector. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 545-565	4.5	42

249	The role of nanotechnology on post-combustion CO ₂ absorption in process industries. <i>International Journal of Low-Carbon Technologies</i> , 2020 , 15, 361-367	2.8	10
248	Nonisothermal two-phase modeling of the effect of linear nonuniform catalyst layer on polymer electrolyte membrane fuel cell performance. <i>Energy Science and Engineering</i> , 2020 , 8, 3575-3587	3.4	5
247	Modeling thermal conductivity of ethylene glycol-based nanofluids using multivariate adaptive regression splines and group method of data handling artificial neural network. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 379-390	4.5	9
246	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
245	Technological assessment and modeling of energy-related CO ₂ emissions for the G8 countries by using hybrid IWO algorithm based on SVM. <i>Energy Science and Engineering</i> , 2020 , 8, 1285-1308	3.4	13
244	Overview on the Current Status of Hydrogen Energy Research and Development in India. <i>Chemical Engineering and Technology</i> , 2020 , 43, 613-624	2	29
243	Super-fast discharge of phase change materials by using an intermediate boiling fluid. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 115, 104597	5.8	8
242	Cooling Performance of a Novel Circulatory Flow Concentric Multi-Channel Heat Sink with Nanofluids. <i>Nanomaterials</i> , 2020 , 10,	5.4	10
241	Influence of nanofluid properties on turbulent forced convection heat transfer in different base liquids. <i>Mathematical Methods in the Applied Sciences</i> , 2020 ,	2.3	2
240	Performance Evaluation of the Thermophotovoltaic-Driven Thermoionic Refrigerator. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020 , 142,	2.6	4
239	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
238	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
237	Exergy and Economic Analysis of Solar Chimney in Iran Climate: Tehran, Semnan, and Bandar Abbas. <i>Mathematical Modelling of Engineering Problems</i> , 2020 , 7, 55-67	3.5	3
236	Reliability Analysis Using Condition Monitoring Approach in Thermal Power Plants 2020 , 113-132		
235	Precise prediction of biogas thermodynamic properties by using ANN algorithm. <i>Renewable Energy</i> , 2020 , 147, 179-191	8.1	18
234	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
233	Steady state operation exergy-based optimization for solar thermal collectors. <i>Environmental Progress and Sustainable Energy</i> , 2020 , 39, e13359	2.5	13
232	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	3.3	30

231	Performance evaluation of PEM fuel cell-chemical heat pump-absorption refrigerator hybrid system. <i>International Journal of Ambient Energy</i> , 2020 , 1-9	2	4
230	A review status on alternative arrangements of power generation energy resources and reserve in India. <i>International Journal of Low-Carbon Technologies</i> , 2020 , 15, 224-240	2.8	5
229	Investigating the effect of using nanofluids on the performance of a double-effect absorption refrigeration cycle combined with a solar collector. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2020 , 234, 981-993	1.6	18
228	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
227	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
226	Numerical calculations of the thermal-aerodynamic characteristics in a solar duct with multiple V-baffles. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 1173-1197	4.5	17
225	Mono-crystalline silicon photovoltaic cells under different solar irradiation levels. <i>Optik</i> , 2020 , 223, 165653	5.3	4
224	Effect of wetness pattern on the fin-tube heat exchanger performance under partially wet-surface condition. <i>Thermal Science and Engineering Progress</i> , 2020 , 19, 100619	3.6	4
223	Performance analysis and availability optimization to improve maintenance schedule for the turbo-generator subsystem of a thermal power plant using particle swarm optimization. <i>Reliability Engineering and System Safety</i> , 2020 , 204, 107130	6.3	12
222	Optimization and analysis of a bioelectricity generation supply chain under routine and disruptive uncertainty and carbon mitigation policies. <i>Energy Science and Engineering</i> , 2020 , 8, 2976-2999	3.4	5
221	Novel analysis of second law and irreversibility for a solar power plant using heliostat field and molten salt. <i>Energy Science and Engineering</i> , 2020 , 8, 4136-4153	3.4	11
220	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
219	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
218	Multi-objective optimization in a finite time thermodynamic method for dish-Stirling by branch and bound method and MOPSO algorithm. <i>Frontiers in Energy</i> , 2020 , 14, 649-665	2.6	8
217	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	4.1	33
216	Exergoeconomic analysis and optimization of a transcritical CO ₂ 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	4.1	29
215	Investigating the effect of using PCM in building materials for energy saving: Case study of Sharif Energy Research Institute. <i>Energy Science and Engineering</i> , 2020 , 8, 959-972	3.4	19
214	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	4.1	17

213	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
212	A study on thermohydraulic characteristics of fluid flow through microchannels. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 1-32	4.1	15
211	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
210	An insight into the prediction of TiO ₂ /water nanofluid viscosity through intelligence schemes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 139, 2381-2394	4.1	33
209	Exergetic, economic, and environmental analyses of combined cooling and power plants with parabolic solar collector. <i>Environmental Progress and Sustainable Energy</i> , 2020 , 39, e13322	2.5	16
208	Prediction of Thermo-Physical Properties of TiO-AlO/Water Nanoparticles by Using Artificial Neural Network. <i>Nanomaterials</i> , 2020 , 10,	5.4	40
207	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
206	Cooling performance of nanofluid submerged vs. nanofluid circulated battery thermal management systems. <i>Journal of Cleaner Production</i> , 2019 , 240, 118131	10.3	54
205	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	10.6	36
204	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
203	Utilization of hybrid nanofluids in solar energy applications: A review. <i>Nano Structures Nano Objects</i> , 2019 , 20, 100386	5.6	80
202	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
201	Analysis, economical and technical enhancement of an organic Rankine cycle recovering waste heat from an exhaust gas stream. <i>Energy Science and Engineering</i> , 2019 , 7, 230-254	3.4	17
200	Current Status Investigation and Predicting Carbon Dioxide Emission in Latin American Countries by Connectionist Models. <i>Energies</i> , 2019 , 12, 1916	3.1	16
199	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
198	Numerical modeling of aeroacoustic characteristics of different savonius blade profiles. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 3349-3369	4.5	5
197	Experimental and numerical investigations of a novel chimney system for power generation using the combination of fossil fuel power plant exhaust gases and ambient air. <i>Energy Science and Engineering</i> , 2019 , 7, 764-776	3.4	5
196	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

195	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
194	Effect of partially wet-surface condition on the performance of fin-tube heat exchanger. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 3938-3958	4.5	8
193	Assessment of the level of Navab inhabitants discontent with urban environment quality values. <i>International Journal of Low-Carbon Technologies</i> , 2019 , 14, 95-102	2.8	1
192	Exergoeconomic comparison and optimization of organic Rankine cycle, trilateral Rankine cycle and transcritical carbon dioxide cycle for heat recovery of low-temperature geothermal water. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2019 , 233, 1068-1084	1.6	14
191	Exergy analysis of a hybrid solar-fossil fuel power plant. <i>Energy Science and Engineering</i> , 2019 , 7, 146-161	3.4	24
190	Techno-economic evaluation of a new CCHP system with a hydrogen production unit. <i>International Journal of Low-Carbon Technologies</i> , 2019 , 14, 170-186	2.8	11
189	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
188	Generation and combination of the solar cells: A current model review. <i>Energy Science and Engineering</i> , 2019 , 7, 305-322	3.4	41
187	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
186	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
185	Modeling and economic analysis of a parabolic trough solar collector used in order to preheat the process fluid of furnaces in a refinery (case study: Parsian Gas Refinery). <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 137, 2081-2097	4.1	17
184	A review on using nanofluids in heat pipes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 137, 1847-1855	4.1	23
183	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
182	Development of Simple-to-Use Predictive Models to Determine Thermal Properties of Fe ₂ O ₃ /Water-Ethylene Glycol Nanofluid. <i>Computation</i> , 2019 , 7, 18	2.2	17
181	A simulation model for thermal performance prediction of a coal-fired power plant. <i>International Journal of Low-Carbon Technologies</i> , 2019 , 14, 122-134	2.8	13
180	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
179	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	1.5	28
178	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

177	Geothermal energy use in hydrogen production: A review. <i>International Journal of Energy Research</i> , 2019 , 43, 7823	4.5	29
176	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
175	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
174	Battery thermal management system employing phase change material with cell-to-cell air cooling. <i>Applied Thermal Engineering</i> , 2019 , 161, 114199	5.8	81
173	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
172	Energy and exergy analyses and thermo-economic optimization of geothermal heat pump for domestic water heating. <i>International Journal of Low-Carbon Technologies</i> , 2019 , 14, 108-121	2.8	21
171	A study on CO ₂ absorption using hybrid solvents in packed columns. <i>International Journal of Low-Carbon Technologies</i> , 2019 ,	2.8	3
170	Thermodynamic Assessment and Multi-Objective Optimization of Performance of Irreversible Dual-Miller Cycle. <i>Energies</i> , 2019 , 12, 4000	3.1	9
169	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
168	Carbon dioxide emissions prediction of five Middle Eastern countries using artificial neural networks. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 1-13	1.6	16
167	Energetic and Exergetic Analysis Hybrid Solid Oxide Fuel Cell Systems and Gas Turbine (SOFC-GT). <i>Mathematical Modelling of Engineering Problems</i> , 2019 , 6, 263-270	3.5	2
166	Soft Computing Approaches for Thermal Conductivity Estimation of CNT/Water Nanofluid. <i>Revue Des Composites Et Des Materiaux Avances</i> , 2019 , 29, 71-82	2.1	6
165	Optimum arrangement of two-stage plug and concentrate recycling RO systems using thermodynamic and exergy analysis. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 3323-3348	4.5	4
164	Moisture Estimation in Cabinet Dryers with Thin-Layer Relationships Using a Genetic Algorithm and Neural Network. <i>Mathematics</i> , 2019 , 7, 1042	2.3	5
163	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
162	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
161	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
160	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

159	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
158	Current status and future forecasting of biofuels technology development. <i>International Journal of Energy Research</i> , 2019 , 43, 1142-1160	4.5	28
157	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
156	Renewable energy harvesting with the application of nanotechnology: A review. <i>International Journal of Energy Research</i> , 2019 , 43, 1387-1410	4.5	72
155	Sensitivity analysis of technical and economic parameters for natural gas management in enhanced oil recovery projects. <i>International Journal of Low-Carbon Technologies</i> , 2019 , 14, 1-9	2.8	1
154	Technical and economical evaluation of grid-connected renewable power generation system for a residential urban area. <i>International Journal of Low-Carbon Technologies</i> , 2019 , 14, 10-22	2.8	11
153	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
152	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
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2	Thermal performance enhancement in heat exchangers using active and passive techniques: a detailed review. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	3
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