

Akbar Maleki

List of Publications by Year in descending order

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72
papers

4,625
citations

101384

36
h-index

98622

67
g-index

72
all docs

72
docs citations

72
times ranked

3190
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization with a simulated annealing algorithm of a hybrid system for renewable energy including battery and hydrogen storage. <i>Energy</i> , 2018, 163, 191-207.	4.5	254
2	Sizing a stand-alone solar-wind-hydrogen energy system using weather forecasting and a hybrid search optimization algorithm. <i>Energy Conversion and Management</i> , 2019, 180, 609-621.	4.4	229
3	Design and optimization of autonomous solar-wind-reverse osmosis desalination systems coupling battery and hydrogen energy storage by an improved bee algorithm. <i>Desalination</i> , 2018, 435, 221-234.	4.0	207
4	Comparative study of artificial intelligence techniques for sizing of a hydrogen-based stand-alone photovoltaic/wind hybrid system. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9973-9984.	3.8	205
5	Optimal sizing of a PV/wind/diesel system with battery storage for electrification to an off-grid remote region: A case study of Rafsanjan, Iran. <i>Sustainable Energy Technologies and Assessments</i> , 2014, 7, 147-153.	1.7	205
6	Applications of nanofluids containing carbon nanotubes in solar energy systems: A review. <i>Journal of Molecular Liquids</i> , 2020, 313, 113476.	2.3	190
7	Optimal sizing of a grid independent hybrid renewable energy system incorporating resource uncertainty, and load uncertainty. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 83, 514-524.	3.3	174
8	Scrutiny of multifarious particle swarm optimization for finding the optimal size of a PV/wind/battery hybrid system. <i>Renewable Energy</i> , 2015, 80, 552-563.	4.3	159
9	Optimal sizing and location based on economic parameters for an off-grid application of a hybrid system with photovoltaic, battery and diesel technology. <i>Energy</i> , 2020, 201, 117480.	4.5	144
10	A hybrid algorithm based optimization on modeling of grid independent biodiesel-based hybrid solar/wind systems. <i>Renewable Energy</i> , 2018, 122, 551-560.	4.3	141
11	Optimal design of stand-alone reverse osmosis desalination driven by a photovoltaic and diesel generator hybrid system. <i>Solar Energy</i> , 2018, 163, 91-103.	2.9	137
12	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
13	Thermal conductivity prediction of nanofluids containing CuO nanoparticles by using correlation and artificial neural network. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2679-2689.	2.0	131
14	Optimization of a hybrid system for solar-wind-based water desalination by reverse osmosis: Comparison of approaches. <i>Desalination</i> , 2018, 442, 16-31.	4.0	121
15	A review on the properties, preparation, models and stability of hybrid nanofluids to optimize energy consumption. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 1959-1983.	2.0	118
16	Simulated annealing-chaotic search algorithm based optimization of reverse osmosis hybrid desalination system driven by wind and solar energies. <i>Solar Energy</i> , 2018, 173, 964-975.	2.9	107
17	A heuristic-based approach for optimizing a small independent solar and wind hybrid power scheme incorporating load forecasting. <i>Journal of Cleaner Production</i> , 2019, 241, 117920.	4.6	100
18	Optimization of a grid-connected hybrid solar-wind-hydrogen CHP system for residential applications by efficient metaheuristic approaches. <i>Applied Thermal Engineering</i> , 2017, 123, 1263-1277.	3.0	99

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19	Prediction of viscosity of biodiesel blends using various artificial model and comparison with empirical correlations. <i>Renewable Energy</i> , 2020, 153, 1296-1306.	4.3	99
20	A novel framework for optimal photovoltaic size and location in remote areas using a hybrid method: A case study of eastern Iran. <i>Energy Conversion and Management</i> , 2017, 153, 129-143.	4.4	96
21	Weather forecasting for optimization of a hybrid solar-wind-powered reverse osmosis water desalination system using a novel optimizer approach. <i>Energy</i> , 2016, 114, 1120-1134.	4.5	95
22	Analysis of the robustness of energy supply in Japan: Role of renewable energy. <i>Energy Reports</i> , 2020, 6, 378-391.	2.5	92
23	Optimal location and size of a grid-independent solar/hydrogen system for rural areas using an efficient heuristic approach. <i>Renewable Energy</i> , 2020, 156, 1203-1214.	4.3	82
24	Optimal Operation of a Grid-Connected Hybrid Renewable Energy System for Residential Applications. <i>Sustainability</i> , 2017, 9, 1314.	1.6	80
25	Thermal conductivity modeling of nanofluids with ZnO particles by using approaches based on artificial neural network and MARS. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 4261-4272.	2.0	74
26	A review of nanomaterial incorporated phase change materials for solar thermal energy storage. <i>Solar Energy</i> , 2021, 228, 725-743.	2.9	73
27	Numerical Investigation of Forced Convective Heat Transfer and Performance Evaluation Criterion of Al ₂ O ₃ /Water Nanofluid Flow inside an Axisymmetric Microchannel. <i>Symmetry</i> , 2020, 12, 120.	1.1	71
28	An artificial intelligence approach to optimization of an off-grid hybrid wind/hydrogen system. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 12725-12738.	3.8	66
29	Thermal Conductivity Modeling of Nanofluids Contain MgO Particles by Employing Different Approaches. <i>Symmetry</i> , 2020, 12, 206.	1.1	60
30	Two heuristic approaches for the optimization of grid-connected hybrid solar-hydrogen systems to supply residential thermal and electrical loads. <i>Sustainable Cities and Society</i> , 2017, 34, 278-292.	5.1	58
31	Machine learning-based approaches for modeling thermophysical properties of hybrid nanofluids: A comprehensive review. <i>Journal of Molecular Liquids</i> , 2021, 322, 114843.	2.3	55
32	Design of a cost-effective on-grid hybrid wind-hydrogen based CHP system using a modified heuristic approach. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15973-15989.	3.8	54
33	Modeling and optimum design of an off-grid PV/WT/FC/diesel hybrid system considering different fuel prices. <i>International Journal of Low-Carbon Technologies</i> , 2018, 13, 140-147.	1.2	54
34	Optimization of a hybrid energy system with/without considering back-up system by a new technique based on fuzzy logic controller. <i>Energy Conversion and Management</i> , 2021, 229, 113723.	4.4	51
35	Thermodynamic analysis of a solar-driven high-temperature steam electrolyzer for clean hydrogen production. <i>Applied Thermal Engineering</i> , 2020, 172, 115152.	3.0	47
36	Modeling and optimal design of an off-grid hybrid system for electricity generation using various biodiesel fuels: a case study for Davarzan, Iran. <i>Biofuels</i> , 2016, 7, 699-712.	1.4	37

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37	Applications of intelligent methods in various types of heat exchangers: a review. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 1837-1848.	2.0	37
38	The effect of alcohol-gasoline fuel blends on the engines' performances and emissions. <i>Fuel</i> , 2020, 276, 117977.	3.4	37
39	Applying different types of artificial neural network for modeling thermal conductivity of nanofluids containing silica particles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 1613-1622.	2.0	34
40	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
41	Discrete optimization algorithm for optimal design of a solar/wind/battery hybrid energy conversion scheme. <i>International Journal of Low-Carbon Technologies</i> , 2021, 16, 326-340.	1.2	30
42	Energy and exergy analysis of a PV module cooled by an active cooling approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 2475-2485.	2.0	29
43	Generation expansion planning by considering energy-efficiency programs in a competitive environment. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 80, 109-118.	3.3	28
44	Optimal operation of a grid-connected fuel cell based combined heat and power systems using particle swarm optimisation for residential sector. <i>International Journal of Ambient Energy</i> , 2021, 42, 550-557.	1.4	28
45	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.	1.6	24
46	Techno-economic analysis of new integrated system of humid air turbine, organic Rankine cycle, and parabolic trough collector. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2691-2703.	2.0	19
47	Assessment of a biomass-based polygeneration plant for combined power, heat, bioethanol and biogas. <i>Applied Thermal Engineering</i> , 2021, 198, 117425.	3.0	19
48	Modeling and optimization of a stand-alone desalination plant powered by solar/wind energies based on back-up systems using a hybrid algorithm. <i>Energy</i> , 2022, 254, 124341.	4.5	19
49	Application of Artificial Neural Networks for Producing an Estimation of High-Density Polyethylene. <i>Polymers</i> , 2020, 12, 2319.	2.0	17
50	A novel framework for integrated energy optimization of a cement plant: An industrial case study. <i>Sustainable Energy Technologies and Assessments</i> , 2019, 35, 245-256.	1.7	14
51	Using Committee Neural Network for Prediction of Pressure Drop in Two-Phase Microchannels. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5384.	1.3	14
52	Numerical study on the performance of a homogeneous charge compression ignition engine fueled with different blends of biodiesel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 2695-2705.	2.0	14
53	Effects of dispatch strategies on optimum sizing of solar-diesel-battery energy storage-RO desalination hybrid scheme by efficient heuristic algorithm. <i>Journal of Energy Storage</i> , 2022, 54, 104862.	3.9	14
54	A review of solar compound parabolic collectors in water desalination systems. <i>International Journal of Modelling and Simulation</i> , 2020, 40, 339-354.	2.3	11

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55	Using multi-criteria decision-making methods to select the best location for the construction of a biomass power plant in Iran. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 2105-2122.	2.0	11
56	Improvement of solar flat-plate collector performance by optimum tilt angle and minimizing top heat loss coefficient using particle swarm optimization. <i>Energy Science and Engineering</i> , 2020, 8, 2771-2783.	1.9	10
57	Analysis of robustness of the Chinese economy and energy supply/demand fluctuations. <i>International Journal of Low-Carbon Technologies</i> , 2019, 14, 147-159.	1.2	9
58	Techno-Economic Analysis and Optimization of an Off-Grid Hybrid Photovoltaic-Diesel-Battery System: Effect of Solar Tracker. <i>Sustainability</i> , 2022, 14, 7296.	1.6	9
59	Optimization based on modified swarm intelligence techniques for a stand-alone hybrid photovoltaic/diesel/battery system. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 51, 101856.	1.7	8
60	A Global Dynamic Harmony Search for Optimization of a Hybrid Photovoltaic-Battery Scheme: Impact of Type of Solar Panels. <i>Sustainability</i> , 2022, 14, 109.	1.6	7
61	Generation expansion planning by considering wind resource in a competitive environment. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2847-2857.	2.0	6
62	Investigation of Magneto Hydro-Dynamics Effects on a Polymer Chain Transfer in Micro-Channel Using Dissipative Particle Dynamics Method. <i>Symmetry</i> , 2020, 12, 397.	1.1	6
63	Optimal design and analysis of a district energy system including heat and power production for domestic applications and fuel for vehicles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 2009-2025.	2.0	5
64	A review on heat transfer characteristics of cryogenic heat pipes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 5533-5547.	2.0	5
65	Selection of optimal location and design of a stand-alone photovoltaic scheme using a modified hybrid methodology. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101071.	1.7	5
66	An improved particle swarm optimization for optimal configuration of standalone photovoltaic scheme components. <i>Energy Science and Engineering</i> , 0, , .	1.9	5
67	Numerical Modeling of Sloshing Frequencies in Tanks with Structure Using New Presented DQM-BEM Technique. <i>Symmetry</i> , 2020, 12, 655.	1.1	4
68	Thermal conductivity estimation of nanofluids with TiO ₂ nanoparticles by employing artificial neural networks. <i>International Journal of Low-Carbon Technologies</i> , 2021, 16, 740-746.	1.2	4
69	Optimal equipment arrangement of a total site for cogeneration of thermal and electrical energy by using exergoeconomic approach. <i>Energy Reports</i> , 2021, 7, 5330-5343.	2.5	4
70	Effects of Reliability Index on Optimal Configuration of Hybrid Solar/Battery Energy System by Optimization Approach: A Case Study. <i>International Journal of Photoenergy</i> , 2021, 2021, 1-11.	1.4	3
71	Modeling and optimization of energy systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 1635-1638.	2.0	2
72	Emplacement of the Photovoltaic Water Pumping System in Remote Areas by a Multi-Criteria Decision-Making Method: A Case Study. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	1