

Hegazy Rezk

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179
papers

3,596
citations

34
h-index

51
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192
ext. papers

5,456
ext. citations

5.1
avg, IF

6.86
L-index

#	Paper	IF	Citations
179	A comprehensive comparison of different MPPT techniques for photovoltaic systems. <i>Solar Energy</i> , 2015 , 112, 1-11	6.8	239
178	A comparison of different global MPPT techniques based on meta-heuristic algorithms for photovoltaic system subjected to partial shading conditions. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 74, 377-386	16.2	119
177	Fuel cell as an effective energy storage in reverse osmosis desalination plant powered by photovoltaic system. <i>Energy</i> , 2019 , 175, 423-433	7.9	105
176	Multi-verse optimizer for identifying the optimal parameters of PEMFC model. <i>Energy</i> , 2018 , 143, 634-644	7.9	104
175	Parameter estimation of photovoltaic system using imperialist competitive algorithm. <i>Renewable Energy</i> , 2017 , 111, 307-320	8.1	102
174	Partial shading mitigation of PV systems via different meta-heuristic techniques. <i>Renewable Energy</i> , 2019 , 130, 1159-1175	8.1	95
173	Optimal parameter design of fractional order control based INC-MPPT for PV system. <i>Solar Energy</i> , 2018 , 159, 650-664	6.8	83
172	Wind driven optimization algorithm based global MPPT for PV system under non-uniform solar irradiance. <i>Solar Energy</i> , 2019 , 180, 429-444	6.8	68
171	Design and Hardware Implementation of New Adaptive Fuzzy Logic-Based MPPT Control Method for Photovoltaic Applications. <i>IEEE Access</i> , 2019 , 7, 106427-106438	3.5	68
170	Stability, thermophysical and electrical properties of synthesized carbon nanofiber and reduced-graphene oxide-based nanofluids and their hybrid along with fuzzy modeling approach. <i>Powder Technology</i> , 2020 , 364, 795-809	5.2	67
169	Global MPPT based on flower pollination and differential evolution algorithms to mitigate partial shading in building integrated PV system. <i>Solar Energy</i> , 2017 , 157, 171-186	6.8	66
168	Nonprecious anodic catalysts for low-molecular-hydrocarbon fuel cells: Theoretical consideration and current progress. <i>Progress in Energy and Combustion Science</i> , 2020 , 77, 100805	33.6	62
167	A novel statistical performance evaluation of most modern optimization-based global MPPT techniques for partially shaded PV system. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 115, 109372	16.2	61
166	Recent progress of graphene based nanomaterials in bioelectrochemical systems. <i>Science of the Total Environment</i> , 2020 , 749, 141225	10.2	59
165	Fuzzy modeling and parameters optimization for the enhancement of biodiesel production from waste frying oil over montmorillonite clay K-30. <i>Science of the Total Environment</i> , 2019 , 666, 821-827	10.2	58
164	Simulation of global MPPT based on teaching-learning-based optimization technique for partially shaded PV system. <i>Electrical Engineering</i> , 2017 , 99, 847-859	1.5	57
163	Performance of data acquisition system for monitoring PV system parameters. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017 , 104, 204-211	4.6	55

162	Maximizing SOFC performance through optimal parameters identification by modern optimization algorithms. <i>Renewable Energy</i> , 2019 , 138, 458-464	8.1	54
161	Fuzzy modeling and optimization for experimental thermophysical properties of water and ethylene glycol mixture for Al ₂ O ₃ and TiO ₂ based nanofluids. <i>Powder Technology</i> , 2019 , 353, 345-358	5.2	54
160	Large-vsacle hydrogen production and storage technologies: Current status and future directions. <i>International Journal of Hydrogen Energy</i> , 2020 ,	6.7	54
159	A Novel Robust Methodology Based Salp Swarm Algorithm for Allocation and Capacity of Renewable Distributed Generators on Distribution Grids. <i>Energies</i> , 2018 , 11, 2556	3.1	54
158	Integrated standalone hybrid solar PV, fuel cell and diesel generator power system for battery or supercapacitor storage systems in Khorfakkan, United Arab Emirates. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 6014-6027	6.7	52
157	Technical and economic analysis of different configurations of stand-alone hybrid renewable power systems [A case study. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 62, 941-953	16.2	49
156	Environmental Impacts on the Performance of Solar Photovoltaic Systems. <i>Sustainability</i> , 2020 , 12, 608	3.6	47
155	Identifying optimal operating conditions of solar-driven silica gel based adsorption desalination cooling system via modern optimization. <i>Solar Energy</i> , 2019 , 181, 475-489	6.8	45
154	A new MATLAB/Simulink model of triple-junction solar cell and MPPT based on artificial neural networks for photovoltaic energy systems. <i>Ain Shams Engineering Journal</i> , 2015 , 6, 873-881	4.4	43
153	A novel methodology for simulating maximum power point trackers using mine blast optimization and teaching learning based optimization algorithms for partially shaded photovoltaic system. <i>Journal of Renewable and Sustainable Energy</i> , 2016 , 8, 023503	2.5	43
152	Fuzzy-modeling with Particle Swarm Optimization for enhancing the production of biodiesel from Microalga. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 41, 2094-2103	1.6	41
151	Optimal parameter identification of triple-junction photovoltaic panel based on enhanced moth search algorithm. <i>Energy</i> , 2019 , 188, 116025	7.9	40
150	Performance evaluation and optimal design of stand-alone solar PV-battery system for irrigation in isolated regions: A case study in Al Minya (Egypt). <i>Sustainable Energy Technologies and Assessments</i> , 2019 , 36, 100556	4.7	38
149	Enhancing the operation of fuel cell-photovoltaic-battery-supercapacitor renewable system through a hybrid energy management strategy. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 6061-6075	6.7	38
148	Robust hydrogen-consumption-minimization strategy based salp swarm algorithm for energy management of fuel cell/supercapacitor/batteries in highly fluctuated load condition. <i>Renewable Energy</i> , 2019 , 139, 147-160	8.1	35
147	Improving the environmental impact of palm kernel shell through maximizing its production of hydrogen and syngas using advanced artificial intelligence. <i>Science of the Total Environment</i> , 2019 , 658, 1150-1160	10.2	35
146	Optimizing density, dynamic viscosity, thermal conductivity and specific heat of a hybrid nanofluid obtained experimentally via ANFIS-based model and modern optimization. <i>Journal of Molecular Liquids</i> , 2021 , 321, 114287	6	35
145	A robust global MPPT to mitigate partial shading of triple-junction solar cell-based system using manta ray foraging optimization algorithm. <i>Solar Energy</i> , 2020 , 207, 305-316	6.8	32

144	A novel strategy based on salp swarm algorithm for extracting the maximum power of proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 6087-6099	6.7	31
143	Optimal Sizing and Placement of Capacitors in Radial Distribution Systems Based on Grey Wolf, Dragonfly and Moth-Flame Optimization Algorithms. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2019 , 43, 77-96	1.9	29
142	Sizing of a stand alone concentrated photovoltaic system in Egyptian site. <i>International Journal of Electrical Power and Energy Systems</i> , 2013 , 45, 325-330	5.1	29
141	A robust parameter estimation approach based on stochastic fractal search optimization algorithm applied to solar PV parameters. <i>Energy Reports</i> , 2021 , 7, 620-640	4.6	29
140	A novel optimal parameters identification of triple-junction solar cell based on a recently meta-heuristic water cycle algorithm. <i>Solar Energy</i> , 2017 , 157, 778-791	6.8	28
139	A novel adaptive model predictive controller for load frequency control of power systems integrated with DFIG wind turbines. <i>Neural Computing and Applications</i> , 2020 , 32, 7171-7181	4.8	27
138	Evaluating the Environmental Impacts and Energy Performance of a Wind Farm System Utilizing the Life-Cycle Assessment Method: A Practical Case Study. <i>Energies</i> , 2019 , 12, 3263	3.1	26
137	Improving fuel cell performance via optimal parameters identification through fuzzy logic based-modeling and optimization. <i>Energy</i> , 2020 , 204, 117976	7.9	26
136	Impact of Optimum Allocation of Renewable Distributed Generations on Distribution Networks Based on Different Optimization Algorithms. <i>Energies</i> , 2018 , 11, 245	3.1	25
135	An enhanced Archimedes optimization algorithm based on Local escaping operator and Orthogonal learning for PEM fuel cell parameter identification. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 103, 104309	7.2	25
134	Optimal selection and management of hybrid renewable energy System: Neom city as a case study. <i>Energy Conversion and Management</i> , 2021 , 244, 114434	10.6	25
133	A robust photovoltaic array reconfiguration strategy based on coyote optimization algorithm for enhancing the extracted power under partial shadow condition. <i>Energy Reports</i> , 2021 , 7, 109-124	4.6	24
132	Solar Array Fed Synchronous Reluctance Motor Driven Water Pump: An Improved Performance Under Partial Shading Conditions. <i>IEEE Access</i> , 2019 , 7, 77100-77115	3.5	23
131	Performance Improvement of PEM Fuel Cell Using Variable Step-Size Incremental Resistance MPPT Technique. <i>Sustainability</i> , 2020 , 12, 5601	3.6	23
130	An Optimal Sizing of Stand-Alone Hybrid PV-Fuel Cell-Battery to Desalinate Seawater at Saudi NEOM City. <i>Processes</i> , 2020 , 8, 382	2.9	22
129	A comprehensive comparison of STATCOM versus SVC-based fuzzy controller for stability improvement of wind farm connected to multi-machine power system. <i>Electrical Engineering</i> , 2018 , 100, 935-951	1.5	22
128	Thermophysical properties using ND/water nanofluids: An experimental study, ANFIS-based model and optimization. <i>Journal of Molecular Liquids</i> , 2021 , 330, 115659	6	22
127	A new strategy based on slime mould algorithm to extract the optimal model parameters of solar PV panel. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 42, 100849	4.7	21

126	. <i>IEEE Access</i> , 2020 , 8, 50036-50044	3.5	21
125	Energy Management of a DC Microgrid Composed of Photovoltaic/Fuel Cell/Battery/Supercapacitor Systems. <i>Batteries</i> , 2019 , 5, 63	5.7	20
124	A novel merging Tubular Daylight Device with Solar Water Heater [Experimental study. <i>Renewable Energy</i> , 2018 , 125, 947-961	8.1	20
123	A low-grade heat Organic Rankine Cycle driven by hybrid solar collectors and a waste heat recovery system. <i>Energy Reports</i> , 2020 , 6, 3425-3445	4.6	19
122	Identifying the parameters of different configurations of photovoltaic models based on recent artificial ecosystem-based optimization approach. <i>International Journal of Energy Research</i> , 2020 , 44, 11302-11322	4.5	19
121	Electrophoretically fabricated nickel/nickel oxides as cost effective nanocatalysts for the oxygen reduction reaction in air-cathode microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 5960-5970	6.7	18
120	A modified Marine Predator Algorithm based on opposition based learning for tracking the global MPP of shaded PV system. <i>Expert Systems With Applications</i> , 2021 , 183, 115253	7.8	18
119	Hybrid Photovoltaic-Thermoelectric Generator Powered Synchronous Reluctance Motor for Pumping Applications. <i>IEEE Access</i> , 2019 , 7, 146979-146988	3.5	17
118	Recent moth-flame optimizer for enhanced solid oxide fuel cell output power via optimal parameters extraction process. <i>Energy</i> , 2020 , 207, 118326	7.9	17
117	Sizing Methodology of a Multi-Mirror Solar Concentrated Hybrid PV/Thermal System. <i>Energies</i> , 2018 , 11, 3276	3.1	17
116	. <i>IEEE Access</i> , 2020 , 8, 102512-102529	3.5	16
115	Fuzzy modeling and particle swarm optimization of Al ₂ O ₃ /SiO ₂ nanofluid. <i>International Journal of Thermofluids</i> , 2021 , 10, 100084	5.6	16
114	. <i>IEEE Access</i> , 2019 , 7, 179409-179419	3.5	16
113	Fuzzy modeling and particle swarm optimization for determining the optimal operating parameters to enhance the bio-methanol production from sugar cane bagasse. <i>International Journal of Energy Research</i> , 2020 , 44, 8964-8973	4.5	15
112	Experimental implementation of meteorological data and photovoltaic solar radiation monitoring system. <i>International Transactions on Electrical Energy Systems</i> , 2015 , 25, 3573-3585	2.2	15
111	A Variable Fractional Order Fuzzy Logic Control Based MPPT Technique for Improving Energy Conversion Efficiency of Thermoelectric Power Generator. <i>Energies</i> , 2020 , 13, 4531	3.1	15
110	Design, Modeling, and Experimental Investigation of Active Water Cooling Concentrating Photovoltaic System. <i>Sustainability</i> , 2020 , 12, 5392	3.6	15
109	Hybrid Moth-Flame Optimization Algorithm and Incremental Conductance for Tracking Maximum Power of Solar PV/Thermoelectric System under Different Conditions. <i>Mathematics</i> , 2019 , 7, 875	2.3	14

108	A comprehensive sizing methodology for stand-alone battery-less photovoltaic water pumping system under the Egyptian climate. <i>Cogent Engineering</i> , 2016 , 3, 1242110	1.5	14
107	Application of fuzzy modelling and Particle Swarm Optimization to enhance lipid extraction from microalgae. <i>Sustainable Energy Technologies and Assessments</i> , 2019 , 35, 73-79	4.7	14
106	Performance enhancement of grid-tied PV system through proposed design cooling techniques: An experimental study and comparative analysis. <i>Solar Energy</i> , 2020 , 211, 1110-1127	6.8	14
105	On the modeling of dispersive transient photocurrent response of organic solar cells. <i>Organic Electronics</i> , 2019 , 70, 42-47	3.5	13
104	Energy efficiency improvement of water pumping system using synchronous reluctance motor fed by perovskite solar cells. <i>International Journal of Energy Research</i> , 2020 , 44, 11629-11642	4.5	13
103	A reliable approach for modeling the photovoltaic system under partial shading conditions using three diode model and hybrid marine predators-slime mould algorithm. <i>Energy Conversion and Management</i> , 2021 , 243, 114269	10.6	13
102	Design and Sensitivity Analysis of Hybrid Photovoltaic-Fuel-Cell-Battery System to Supply a Small Community at Saudi NEOM City. <i>Sustainability</i> , 2020 , 12, 3341	3.6	12
101	Experimental Investigation to Improve the Energy Efficiency of Solar PV Panels Using Hydrophobic SiO ₂ Nanomaterial. <i>Coatings</i> , 2020 , 10, 503	2.9	12
100	A Differential Evolution-Based Optimized Fuzzy Logic MPPT Method for Enhancing the Maximum Power Extraction of Proton Exchange Membrane Fuel Cells. <i>IEEE Access</i> , 2020 , 8, 172219-172232	3.5	12
99	A Novel Solution Methodology Based on a Modified Gradient-Based Optimizer for Parameter Estimation of Photovoltaic Models. <i>Electronics (Switzerland)</i> , 2021 , 10, 472	2.6	12
98	An efficient modified artificial electric field algorithm for solving optimization problems and parameter estimation of fuel cell. <i>International Journal of Energy Research</i> ,	4.5	12
97	Optimal control and implementation of energy management strategy for a DC microgrid. <i>Energy</i> , 2022 , 238, 121777	7.9	12
96	Heuristic optimization techniques for connecting renewable distributed generators on distribution grids. <i>Neural Computing and Applications</i> , 2020 , 32, 14195-14225	4.8	11
95	Modified Bidirectional Dc-dc Boost Converter Fed Three-Phase Four-Wire PV-DVR. <i>Journal of Testing and Evaluation</i> , 2020 , 48, 20180111	1	11
94	Modeling and Performance Improvement of Direct Power Control of Doubly-Fed Induction Generator Based Wind Turbine through Second-Order Sliding Mode Control Approach. <i>Mathematics</i> , 2020 , 8, 2012	2.3	11
93	Optimal Parameter Estimation Strategy of PEM Fuel Cell using Gradient-based Optimizer. <i>Energy</i> , 2021 , 122096	7.9	11
92	Developing a fuzzy-model with particle swarm optimization-based for improving the conversion and gasification rate of palm kernel shell. <i>Renewable Energy</i> , 2020 , 166, 125-135	8.1	10
91	The role of vacuum based technologies in solid oxide fuel cell development to utilize industrial waste carbon for power production. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 142, 110803	16.2	10

90	Performance of incremental resistance MPPT based proton exchange membrane fuel cell power system 2016 ,		10
89	A MPPT based on optimized FLC using manta ray foraging optimization algorithm for thermo-electric generation systems. <i>International Journal of Energy Research</i> , 2021 , 45, 13897-13910	4.5	9
88	An Enhanced DC-Link Voltage Response for Wind-Driven Doubly Fed Induction Generator Using Adaptive Fuzzy Extended State Observer and Sliding Mode Control. <i>Mathematics</i> , 2021 , 9, 963	2.3	9
87	Minimum hydrogen consumption based control strategy of fuel cell/PV/battery/supercapacitor hybrid system using recent approach based parasitism-predation algorithm. <i>Energy</i> , 2021 , 225, 120316	7.9	9
86	Optimal parameter identification strategy applied to lithium-ion battery model. <i>International Journal of Energy Research</i> , 2021 , 45, 16741-16753	4.5	9
85	Numerical Performance Evaluation of Solar Photovoltaic Water Pumping System under Partial Shading Condition using Modern Optimization. <i>Mathematics</i> , 2019 , 7, 1123	2.3	9
84	Robust electrical parameter extraction methodology based on Interior Search Optimization Algorithm applied to supercapacitor. <i>ISA Transactions</i> , 2020 , 105, 86-97	5.5	8
83	Application of artificial intelligence to maximize methane production from waste paper. <i>International Journal of Energy Research</i> , 2020 , 44, 9598-9608	4.5	8
82	Theoretical and experimental performance investigation of a newly combined TDD and SWH system. <i>Applied Thermal Engineering</i> , 2019 , 161, 114156	5.8	8
81	A novel approach for PEM fuel cell parameter estimation using LSHADE-EpSin optimization algorithm. <i>International Journal of Energy Research</i> , 2021 , 45, 6922-6942	4.5	8
80	Marine Predators Algorithm Optimized Reduced Sensor Fuzzy-Logic Based Maximum Power Point Tracking of Fuel Cell-Battery Standalone Applications. <i>IEEE Access</i> , 2021 , 9, 27987-28000	3.5	8
79	Optimal operating parameter determination based on fuzzy logic modeling and marine predators algorithm approaches to improve the methane production via biomass gasification. <i>Energy</i> , 2022 , 239, 122072	7.9	8
78	Temperature distribution modeling of PV and cooling water PV/T collectors through thin and thick cooling cross-fined channel box. <i>Energy Reports</i> , 2021 , 8, 1144-1144	4.6	7
77	Data on fuzzy logic based-modelling and optimization of recovered lipid from microalgae. <i>Data in Brief</i> , 2020 , 28, 104931	1.2	7
76	The Application of Water Cycle Optimization Algorithm for Optimal Placement of Wind Turbines in Wind Farms. <i>Energies</i> , 2019 , 12, 4335	3.1	7
75	Performance improvement of microbial fuel cell through artificial intelligence. <i>International Journal of Energy Research</i> , 2021 , 45, 342-354	4.5	7
74	Co-decorated reduced graphene/titanium nitride composite as an active oxygen reduction reaction catalyst with superior stability. <i>International Journal of Energy Research</i> , 2021 , 45, 1587-1598	4.5	7
73	An efficient single-sensor global maximum power point tracking method for partially shaded photovoltaic battery chargers. <i>International Journal of Energy Research</i> , 2019 , 43, 8779	4.5	6

72	An experimental implementation and testing of a concentrated hybrid photovoltaic/thermal system with monocrystalline solar cells using linear Fresnel reflected mirrors. <i>International Journal of Energy Research</i> , 2019 , 43, 8660	4.5	6
71	Battery parameter identification strategy based on modified coot optimization algorithm. <i>Journal of Energy Storage</i> , 2022 , 46, 103848	7.8	6
70	Passive cooling system for enhancement the energy conversion efficiency of thermo-electric generator. <i>Energy Reports</i> , 2020 , 6, 687-692	4.6	6
69	Optimal techno-economic energy management strategy for building microgrids based bald eagle search optimization algorithm. <i>Applied Energy</i> , 2022 , 306, 118069	10.7	6
68	An experimental investigation on electrical performance and characterization of thermoelectric generator. <i>International Journal of Energy Research</i> , 2020 , 44, 128-143	4.5	6
67	Simulation-Based Coyote Optimization Algorithm to Determine Gains of PI Controller for Enhancing the Performance of Solar PV Water-Pumping System. <i>Energies</i> , 2020 , 13, 4473	3.1	6
66	Numerical Estimation of Switched Reluctance Motor Excitation Parameters Based on a Simplified Structure Average Torque Control Strategy for Electric Vehicles. <i>Mathematics</i> , 2020 , 8, 1213	2.3	6
65	Magnetic Refrigeration Design Technologies: State of the Art and General Perspectives. <i>Energies</i> , 2021 , 14, 4662	3.1	6
64	An Effective Energy Management Strategy Based on Mine-Blast Optimization Technique Applied to Hybrid PEMFC/Supercapacitor/Batteries System. <i>Energies</i> , 2019 , 12, 3796	3.1	5
63	An efficient orthogonal opposition-based learning slime mould algorithm for maximum power point tracking. <i>Neural Computing and Applications</i> , 2022 , 34, 3671	4.8	5
62	An improved indirect instantaneous torque control strategy of switched reluctance motor drives for light electric vehicles. <i>Energy Reports</i> , 2020 , 6, 709-715	4.6	5
61	Finite Element Based Overall Optimization of Switched Reluctance Motor Using Multi-Objective Genetic Algorithm (NSGA-II). <i>Mathematics</i> , 2021 , 9, 576	2.3	5
60	Optimal operating parameter determination and modeling to enhance methane production from macroalgae. <i>Renewable Energy</i> , 2021 , 163, 2190-2197	8.1	5
59	Recent Approach of Forensic-Based Investigation Algorithm for Optimizing Fractional Order PID-Based MPPT With Proton Exchange Membrane Fuel Cell. <i>IEEE Access</i> , 2021 , 9, 18974-18992	3.5	5
58	Comparative Evaluation for an Improved Direct Instantaneous Torque Control Strategy of Switched Reluctance Motor Drives for Electric Vehicles. <i>Mathematics</i> , 2021 , 9, 302	2.3	5
57	Robust Sensorless Model-Predictive Torque Flux Control for High-Performance Induction Motor Drives. <i>Mathematics</i> , 2021 , 9, 403	2.3	5
56	The Effect of a New Coating on the Drying Performance of Fruit and Vegetables Products: Experimental Investigation and Artificial Neural Network Modeling. <i>Foods</i> , 2020 , 9,	4.9	4
55	Dataset on fuzzy logic based-modelling and optimization of thermophysical properties of nanofluid mixture. <i>Data in Brief</i> , 2019 , 26, 104547	1.2	4

54	Environmental Assessment of a Diesel Engine Fueled with Various Biodiesel Blends: Polynomial Regression and Grey Wolf Optimization. <i>Sustainability</i> , 2022 , 14, 1367	3.6	4
53	Modeling and Optimization of a Compression Ignition Engine Fueled with Biodiesel Blends for Performance Improvement. <i>Mathematics</i> , 2022 , 10, 420	2.3	4
52	Performance of Gradient-Based Optimizer on Charging Station Placement Problem. <i>Mathematics</i> , 2021 , 9, 2821	2.3	4
51	An improved fuzzy logic control-based MPPT method to enhance the performance of PEM fuel cell system. <i>Neural Computing and Applications</i> , 1	4.8	4
50	Multicriteria Decision-Making to Determine the Optimal Energy Management Strategy of Hybrid PV/Diesel Battery-Based Desalination System. <i>Sustainability</i> , 2021 , 13, 4202	3.6	4
49	Optimal Rotor Design of Synchronous Reluctance Machines Considering the Effect of Current Angle. <i>Mathematics</i> , 2021 , 9, 344	2.3	4
48	A novel strategy based on recent equilibrium optimizer to enhance the performance of PEM fuel cell system through optimized fuzzy logic MPPT. <i>Energy</i> , 2021 , 234, 121267	7.9	4
47	Political optimizer based approach for estimating SOFC optimal parameters for static and dynamic models. <i>Energy</i> , 2022 , 238, 122031	7.9	4
46	. <i>IEEE Access</i> , 2020 , 8, 45964-45973	3.5	3
45	Techno-economic optimum sizing of stand-alone photovoltaic/fuel cell renewable system for irrigation water pumping applications 2014 ,		3
44	Modern Optimization Algorithms and Applications in Solar Photovoltaic Engineering. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2016 , 390-445	0.3	3
43	Modelling and Design Methodology of an Improved Performance Photovoltaic Pumping System Employing Ferrite Magnet Synchronous Reluctance Motors. <i>Mathematics</i> , 2020 , 8, 1429	2.3	3
42	Radial Movement Optimization Based Optimal Operating Parameters of a Capacitive Deionization Desalination System. <i>Processes</i> , 2020 , 8, 964	2.9	3
41	Multi-Objective Optimization of Switched Reluctance Machine Design Using Jaya Algorithm (MO-Jaya). <i>Mathematics</i> , 2021 , 9, 1107	2.3	3
40	Experimental investigations and modeling of vacuum oven process using several semi-empirical models and a fuzzy model of cocoa beans. <i>Heat and Mass Transfer</i> , 2021 , 57, 175-188	2.2	3
39	Mathematical Modelling, Analysis and Control of a Three to Five-Phase Matrix Converter for Minimal Switching Losses. <i>Mathematics</i> , 2021 , 9, 96	2.3	3
38	A new comprehensive learning marine predator algorithm for extracting the optimal parameters of supercapacitor model. <i>Journal of Energy Storage</i> , 2021 , 42, 103035	7.8	3
37	Investigation of the Effect of Solar Ventilation on the Cabin Temperature of Vehicles Parked under the Sun. <i>Sustainability</i> , 2021 , 13, 13963	3.6	3

36	A modified adaptive guided differential evolution algorithm applied to engineering applications. <i>Engineering Applications of Artificial Intelligence</i> , 2022 , 113, 104920	7.2	3
35	Fuzzy Logic Based-Modeling and Parameter Optimization for Improving the Corrosion Protection of Stainless Steel 304 by Epoxy-Graphene Composite. <i>IEEE Access</i> , 2019 , 7, 100899-100909	3.5	2
34	Fuzzy Logic Control Based Energy Management Strategy for Renewable Energy System 2020 ,		2
33	DC Energy Hubs for Integration of Community DERs, EVs, and Subway Systems. <i>Sustainability</i> , 2022 , 14, 1558	3.6	2
32	A Robust Fractional-Order PID Controller Based Load Frequency Control Using Modified Hunger Games Search Optimizer. <i>Energies</i> , 2022 , 15, 361	3.1	2
31	Finite Element Solution of the Corona Discharge of Wire-Duct Electrostatic Precipitators at High Temperatures Numerical Computation and Experimental Verification. <i>Mathematics</i> , 2020 , 8, 1406	2.3	2
30	Dynamic Voltage Restorer Integrated with Photovoltaic-Thermoelectric Generator for Voltage Disturbances Compensation and Energy Saving in Three-Phase System. <i>Sustainability</i> , 2021 , 13, 3511	3.6	2
29	Artificial Intelligence Based Modelling of Adsorption Water Desalination System. <i>Mathematics</i> , 2021 , 9, 1674	2.3	2
28	Robust parameter estimation of vector controlled induction motors based on a modified particle swarm optimization technique 2016 ,		2
27	Numerical Estimation and Experimental Verification of Optimal Parameter Identification Based on Modern Optimization of a Three Phase Induction Motor. <i>Mathematics</i> , 2019 , 7, 1135	2.3	2
26	Optimal Parameter Estimation of Solar PV Panel Based on Hybrid Particle Swarm and Grey Wolf Optimization Algorithms. <i>International Journal of Interactive Multimedia and Artificial Intelligence</i> , 2021 , 6, 145	3.8	2
25	Indirect P&O type-2 fuzzy-based adaptive step MPPT for proton exchange membrane fuel cell. <i>Neural Computing and Applications</i> , 2021 , 33, 9649-9662	4.8	2
24	Optimal adaptive fuzzy management strategy for fuel cell-based DC microgrid. <i>Energy</i> , 2022 , 247, 123447.9	7.9	2
23	Managing the exchange of energy between microgrid elements based on multi-objective enhanced marine predators algorithm. <i>AEJ - Alexandria Engineering Journal</i> , 2022 , 61, 8487-8505	6.1	2
22	Parameter Identification of Optimized Fractional Maximum Power Point Tracking for Thermoelectric Generation Systems Using Manta Ray Foraging Optimization. <i>Mathematics</i> , 2021 , 9, 2971	2.3	1
21	Optimal parameter identification of triple diode model for solar photovoltaic panel and cells. <i>Energy Reports</i> , 2021 ,	4.6	1
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