Attia A El-Fergany

List of Publications by Year
in descending order

83	4,001	94269 37	123241 61
papers	citations	h-index	g-index

84	84	84	2246
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamic Performance Evaluation of Photovoltaic Three-Diode Model-Based Rung-Kutta Optimizer. IEEE Access, 2022, 10, 38309-38323.	2.6	8
2	Over-Current Relays Coordination Including Practical Constraints and DGs: Damage Curves, Inrush, and Starting Currents. Sustainability, 2022, 14, 2761.	1.6	4
3	Efficient PEM fuel cells parameters identification using hybrid artificial bee colony differential evolution optimizer. Energy, 2022, 250, 123830.	4.5	24
4	Optimal parameter estimation of solid oxide fuel cells model using bald eagle search optimizer. International Journal of Energy Research, 2022, 46, 13657-13669.	2.2	10
5	Artificial ecosystem optimizer for parameters identification of proton exchange membrane fuel cells model. International Journal of Hydrogen Energy, 2021, 46, 37612-37627.	3.8	49
6	Adaptive virtual-inertia control and chicken swarm optimizer for frequency stability in power-grids penetrated by renewable energy sources. Neural Computing and Applications, 2021, 33, 2905-2918.	3.2	22
7	Artificial electric field algorithm to extract nine parameters of tripleâ€diode photovoltaic model. International Journal of Energy Research, 2021, 45, 590-604.	2.2	44
8	Performance Assessment of Solar Generating Units Based on Coot Bird Metaheuristic Optimizer. IEEE Access, 2021, 9, 111616-111632.	2.6	13
9	Artificial ecosystemâ€based optimiser to electrically characterise PV generating systems under various operating conditions reinforced by experimental validations. IET Renewable Power Generation, 2021, 15, 701-715.	1.7	17
10	An Improved Artificial Jellyfish Search Optimizer for Parameter Identification of Photovoltaic Models. Energies, 2021, 14, 1867.	1.6	33
11	Slime mould algorithm constrained by the relay operating time for optimal coordination of directional overcurrent relays using multiple standardized tripping curves. Neural Computing and Applications, 2021, 33, 11875-11887.	3.2	21
12	Various Metaheuristic-Based Algorithms for Optimal Relay Coordination: Review and Prospective. Archives of Computational Methods in Engineering, 2021, 28, 3621-3629.	6.0	8
13	Jellyfish search algorithm for extracting unknown parameters of PEM fuel cell models: Steady-state performance and analysis. Energy, 2021, 221, 119836.	4.5	48
14	Parameters Identification of PV Triple-Diode Model Using Improved Generalized Normal Distribution Algorithm. Mathematics, 2021, 9, 995.	1.1	18
15	Equilibrium optimizer for parameter extraction of a fuel cell dynamic model. Renewable Energy, 2021, 169, 117-128.	4.3	38
16	Investigating dynamic performances of fuel cells using pathfinder algorithm. Energy Conversion and Management, 2021, 237, 114099.	4.4	19
17	Efficient Ranking-Based Whale Optimizer for Parameter Extraction of Three-Diode Photovoltaic Model: Analysis and Validations. Energies, 2021, 14, 3729.	1.6	11
18	Precise modeling of <scp>PEM</scp> fuel cell using improved chaotic <scp>MayFly</scp> optimization algorithm. International Journal of Energy Research, 2021, 45, 18754-18769.	2.2	43

#	Article	IF	Citations
19	Recent Meta-Heuristic Algorithms with a Novel Premature Covergence Method for Determining the Parameters of PV Cells and Modules. Electronics (Switzerland), 2021, 10, 1846.	1.8	4
20	Cost Minimizations and Performance Enhancements of Power Systems Using Spherical Prune Differential Evolution Algorithm Including Modal Analysis. Sustainability, 2021, 13, 8113.	1.6	9
21	Gorilla Troops Optimizer for Electrically Based Single and Double-Diode Models of Solar Photovoltaic Systems. Sustainability, 2021, 13, 9459.	1.6	67
22	Model parameters extraction of solid oxide fuel cells based on semiâ€empirical and memoryâ€based chameleon swarm algorithm. International Journal of Energy Research, 2021, 45, 21435-21450.	2.2	10
23	STEADY-STATE MODELLING OF PEM FUEL CELLS USING GRADIENT-BASED OPTIMIZER. Dyna (Spain), 2021, 96, 520-527.	0.1	8
24	Optimal dynamic operation and modeling of parallel connected multi-stacks fuel cells with improved slime mould algorithm. Renewable Energy, 2021, 175, 770-782.	4.3	15
25	Adaptive and efficient optimization model for optimal parameters of proton exchange membrane fuel cells: A comprehensive analysis. Energy, 2021, 233, 121096.	4.5	16
26	Effective coordination settings for directional overcurrent relay using hybrid Gradient-based optimizer. Applied Soft Computing Journal, 2021, 112, 107748.	4.1	19
27	Parameters identification of PV model using improved slime mould optimizer and Lambert W-function. Energy Reports, 2021, 7, 875-887.	2.5	64
28	Emended heap-based optimizer for characterizing performance of industrial solar generating units using triple-diode model. Energy, 2021, 237, 121561.	4.5	14
29	Soft Computing Methods for Attaining the Protective Device Coordination Including Renewable Energies: Review and Prospective. Archives of Computational Methods in Engineering, 2021, 28, 4383-4404.	6.0	12
30	Robust Design of Power System Stabilizers Using Improved Harris Hawk Optimizer for Interconnected Power System. Sustainability, 2021, 13, 11776.	1.6	9
31	Optimal techno-economic design of hybrid PV/wind system comprising battery energy storage: Case study for a remote area. Energy Conversion and Management, 2021, 249, 114847.	4.4	70
32	Optimal Power Flow Solution Using Moth Swarm Optimizer Considering Generating Units Prohibited Zones and Valve Ripples. Journal of Electrical Engineering and Technology, 2020, 15, 179.	1.2	9
33	Salp swarm optimizer to solve optimal power flow comprising voltage stability analysis. Neural Computing and Applications, 2020, 32, 5267-5283.	3.2	78
34	Computational Methods for Optimal Planning of Hybrid Renewable Microgrids: A Comprehensive Review and Challenges. Archives of Computational Methods in Engineering, 2020, 27, 1297-1319.	6.0	45
35	Optimizing performance attributes of electric power systems using chaotic salp swarm optimizer. International Journal of Management Science and Engineering Management, 2020, 15, 165-175.	2.6	18
36	Conscious neighborhood scheme-based Laplacian barnacles mating algorithm for parameters optimization of photovoltaic single- and double-diode models. Energy Conversion and Management, 2020, 226, 113522.	4.4	39

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37	Electrical characterization of photovoltaic modules using farmland fertility optimizer. Energy Conversion and Management, 2020, 217, 112990.	4.4	45
38	Three-diode model for characterization of industrial solar generating units using Manta-rays foraging optimizer: Analysis and validations. Energy Conversion and Management, 2020, 219, 113048.	4.4	46
39	Parameters extraction of PEMFC's model using manta rays foraging optimizer. International Journal of Energy Research, 2020, 44, 4629-4640.	2.2	89
40	Improved performance of PEM fuel cells stack feeding switched reluctance motor using multi-objective dragonfly optimizer. Neural Computing and Applications, 2019, 31, 6909-6924.	3.2	19
41	Salp swarm algorithm-based optimal load frequency control of hybrid renewable power systems with communication delay and excitation cross-coupling effect. Electric Power Systems Research, 2019, 176, 105938.	2.1	126
42	Semi-empirical PEM fuel cells model using whale optimization algorithm. Energy Conversion and Management, 2019, 201, 112197.	4.4	99
43	Effective methodology based on neural network optimizer for extracting model parameters of PEM fuel cells. International Journal of Energy Research, 2019, 43, 8136-8147.	2.2	70
44	Steady-State Modeling of Fuel Cells Based on Atom Search Optimizer. Energies, 2019, 12, 1884.	1.6	64
45	Water cycle algorithm for optimal overcurrent relays coordination in electric power systems. Soft Computing, 2019, 23, 12761-12778.	2.1	30
46	Efficient frequency regulation in highly penetrated power systems by renewable energy sources using stochastic fractal optimiser. IET Renewable Power Generation, 2019, 13, 2174-2183.	1.7	26
47	Optimized Parameters of SOFC for steady state and transient simulations using interior search algorithm. Energy, 2019, 166, 451-461.	4.5	63
48	Electrical characterisation of proton exchange membrane fuel cells stack using grasshopper optimiser. IET Renewable Power Generation, 2018, 12, 9-17.	1.7	129
49	Tree-seed algorithm for solving optimal power flow problem in large-scale power systems incorporating validations and comparisons. Applied Soft Computing Journal, 2018, 64, 307-316.	4.1	92
50	Extracting optimal parameters of PEM fuel cells using Salp Swarm Optimizer. Renewable Energy, 2018, 119, 641-648.	4.3	227
51	Design of robust model predictive controllers for frequency and voltage loops of interconnected power systems including wind farm and energy storage system. IET Generation, Transmission and Distribution, 2018, 12, 4276-4283.	1.4	31
52	Steady-state and dynamic models of solid oxide fuel cells based on Satin Bowerbird Optimizer. International Journal of Hydrogen Energy, 2018, 43, 14751-14761.	3.8	60
53	Harmonic analysis of hybrid renewable microgrids comprising optimal design of passive filters and uncertainties. Electric Power Systems Research, 2018, 163, 491-501.	2.1	39
54	Performance enhancement of autonomous system comprising proton exchange membrane fuel cells and switched reluctance motor. Energy, 2018, 163, 699-711.	4.5	28

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55	Water cycle algorithm-based economic dispatcher for sequential and simultaneous objectives including practical constraints. Applied Soft Computing Journal, 2017, 58, 145-154.	4.1	37
56	Symbiotic organisms search algorithm for automatic generation control of interconnected power systems including wind farms. IET Generation, Transmission and Distribution, 2017, 11, 1692-1700.	1.4	84
57	Optimized settings of directional overcurrent relays in meshed power networks using stochastic fractal search algorithm. International Transactions on Electrical Energy Systems, 2017, 27, e2395.	1.2	30
58	Efficient frequency controllers for autonomous twoâ€area hybrid microgrid system using socialâ€spider optimiser. IET Generation, Transmission and Distribution, 2017, 11, 637-648.	1.4	163
59	Parameter extraction of photovoltaic generating units using multi-verse optimizer. Sustainable Energy Technologies and Assessments, 2016, 17, 68-76.	1.7	87
60	Water cycle algorithmâ€based load frequency controller for interconnected power systems comprising nonâ€linearity. IET Generation, Transmission and Distribution, 2016, 10, 3950-3961.	1.4	60
61	Optimal directional digital overcurrent relays coordination and arc-flash hazard assessments in meshed networks. International Transactions on Electrical Energy Systems, 2016, 26, 134-154.	1.2	22
62	Multi-objective Allocation of Multi-type Distributed Generators along Distribution Networks Using Backtracking Search Algorithm and Fuzzy Expert Rules. Electric Power Components and Systems, 2016, 44, 252-267.	1.0	49
63	Study impact of various load models on DG placement and sizing using backtracking search algorithm. Applied Soft Computing Journal, 2015, 30, 803-811.	4.1	59
64	Single and Multi-objective Optimal Power Flow Using Grey Wolf Optimizer and Differential Evolution Algorithms. Electric Power Components and Systems, 2015, 43, 1548-1559.	1.0	227
65	Optimal Reconfiguration Comprising Voltage Stability Aspect Using Enhanced Binary Particle Swarm Optimization Algorithm. Electric Power Components and Systems, 2015, 43, 1656-1666.	1.0	18
66	Efficient Tool to Characterize Photovoltaic Generating Systems Using Mine Blast Algorithm. Electric Power Components and Systems, 2015, 43, 890-901.	1.0	49
67	Optimal allocation of multi-type distributed generators using backtracking search optimization algorithm. International Journal of Electrical Power and Energy Systems, 2015, 64, 1197-1205.	3.3	302
68	Capacitor placement for net saving maximization and system stability enhancement in distribution networks using artificial bee colony-based approach. International Journal of Electrical Power and Energy Systems, 2014, 54, 235-243.	3.3	70
69	Capacitor allocations in radial distribution networks using cuckoo search algorithm. IET Generation, Transmission and Distribution, 2014, 8, 223-232.	1.4	152
70	Artificial Bee Colony Algorithm to Allocate Fixed and Switched Static Shunt Capacitors in Radial Distribution Networks. Electric Power Components and Systems, 2014, 42, 427-438.	1.0	52
71	Efficient heuristicâ€based approach for multiâ€objective capacitor allocation in radial distribution networks. IET Generation, Transmission and Distribution, 2014, 8, 70-80.	1.4	63
72	Involvement of cost savings and voltage stability indices in optimal capacitor allocation in radial distribution networks using artificial bee colony algorithm. International Journal of Electrical Power and Energy Systems, 2014, 62, 608-616.	3.3	38

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73	Synergy of a genetic algorithm and simulated annealing to maximize real power loss reductions in transmission networks. International Journal of Electrical Power and Energy Systems, 2014, 56, 307-315.	3.3	9
74	Reactive power compensation in distribution networks using cuckoo search algorithm. International Journal of Bio-Inspired Computation, 2014, 6, 230.	0.6	5
75	Multi-objective Capacitor Allocations in Distribution Networks using Artificial Bee Colony Algorithm. Journal of Electrical Engineering and Technology, 2014, 9, 441-451.	1.2	17
76	Optimal capacitor allocations using evolutionary algorithms. IET Generation, Transmission and Distribution, 2013, 7, 593-601.	1.4	132
77	Metaâ€heuristic algorithmsâ€based real power loss minimisation including line thermal overloading constraints. IET Generation, Transmission and Distribution, 2013, 7, 613-619.	1.4	4
78	Cuckoo Search-based Algorithm for Optimal Shunt Capacitors Allocations in Distribution Networks. Electric Power Components and Systems, 2013, 41, 1567-1581.	1.0	36
79	Artificial Bee Colony-Based Approach for Optimal Capacitor Placement in Distribution Networks. Lecture Notes in Computer Science, 2013, , 424-435.	1.0	2
80	Minimization of energy loss using integrated evolutionary approaches. , 2012, , .		2
81	Emission/Economic Load Dispatch Using Combination of Evolutionary Algorithms. International Journal of Soft Computing, 2012, 7, 256-263.	0.4	0
82	Fault diagnosis in power systems-substation level-through hybrid artificial neural networks and expert system. , 0, , .		4
83	Fault diagnosis of power systems using binary information of breakers and relays through DPNs. , 0, , .		9