Attia A El-Fergany

List of Publications by Year
in descending order

83 papers	**4,001** citations	94269 **37** h-index	123241 **61** g-index
84 all docs	**84** docs citations	**84** times ranked	**2246** citing authors

#	Article	IF	Citations
1	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
2	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
3	Extracting optimal parameters of PEM fuel cells using Salp Swarm Optimizer. Renewable Energy, 2018, 119, 641-648.	4.3	227
4	Efficient frequency controllers for autonomous two‐area hybrid microgrid system using social‐spider optimiser. IET Generation, Transmission and Distribution, 2017, 11, 637-648.	1.4	163
5	Capacitor allocations in radial distribution networks using cuckoo search algorithm. IET Generation, Transmission and Distribution, 2014, 8, 223-232.	1.4	152
6	Optimal capacitor allocations using evolutionary algorithms. IET Generation, Transmission and Distribution, 2013, 7, 593-601.	1.4	132
7	Electrical characterisation of proton exchange membrane fuel cells stack using grasshopper optimiser. IET Renewable Power Generation, 2018, 12, 9-17.	1.7	129
8	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
9	Semi-empirical PEM fuel cells model using whale optimization algorithm. Energy Conversion and Management, 2019, 201, 112197.	4.4	99
10	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
11	Parameters extraction of PEMFC's model using manta rays foraging optimizer. International Journal of Energy Research, 2020, 44, 4629-4640.	2.2	89
12	Parameter extraction of photovoltaic generating units using multi-verse optimizer. Sustainable Energy Technologies and Assessments, 2016, 17, 68-76.	1.7	87
13	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
14	Salp swarm optimizer to solve optimal power flow comprising voltage stability analysis. Neural Computing and Applications, 2020, 32, 5267-5283.	3.2	78
15	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
16	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
17	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
18	Gorilla Troops Optimizer for Electrically Based Single and Double-Diode Models of Solar Photovoltaic Systems. Sustainability, 2021, 13, 9459.	1.6	67

#	Article	IF	Citations
19	Steady-State Modeling of Fuel Cells Based on Atom Search Optimizer. Energies, 2019, 12, 1884.	1.6	64
20	Parameters identification of PV model using improved slime mould optimizer and Lambert W-function. Energy Reports, 2021, 7, 875-887.	2.5	64
21	Efficient heuristic‐based approach for multi‐objective capacitor allocation in radial distribution networks. IET Generation, Transmission and Distribution, 2014, 8, 70-80.	1.4	63
22	Optimized Parameters of SOFC for steady state and transient simulations using interior search algorithm. Energy, 2019, 166, 451-461.	4.5	63
23	Water cycle algorithm‐based load frequency controller for interconnected power systems comprising non‐linearity. IET Generation, Transmission and Distribution, 2016, 10, 3950-3961.	1.4	60
24	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
25	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
26	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
27	Efficient Tool to Characterize Photovoltaic Generating Systems Using Mine Blast Algorithm. Electric Power Components and Systems, 2015, 43, 890-901.	1.0	49
28	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
29	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
30	Jellyfish search algorithm for extracting unknown parameters of PEM fuel cell models: Steady-state performance and analysis. Energy, 2021, 221, 119836.	4.5	48
31	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
32	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
33	Electrical characterization of photovoltaic modules using farmland fertility optimizer. Energy Conversion and Management, 2020, 217, 112990.	4.4	45
34	Artificial electric field algorithm to extract nine parameters of triple‐diode photovoltaic model. International Journal of Energy Research, 2021, 45, 590-604.	2.2	44
35	Precise modeling of PEM fuel cell using improved chaotic MayFly optimization algorithm. International Journal of Energy Research, 2021, 45, 18754-18769.	2.2	43
36	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

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37	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
38	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
39	Equilibrium optimizer for parameter extraction of a fuel cell dynamic model. Renewable Energy, 2021, 169, 117-128.	4.3	38
40	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
41	Cuckoo Search-based Algorithm for Optimal Shunt Capacitors Allocations in Distribution Networks. Electric Power Components and Systems, 2013, 41, 1567-1581.	1.0	36
42	An Improved Artificial Jellyfish Search Optimizer for Parameter Identification of Photovoltaic Models. Energies, 2021, 14, 1867.	1.6	33
43	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
44	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
45	Water cycle algorithm for optimal overcurrent relays coordination in electric power systems. Soft Computing, 2019, 23, 12761-12778.	2.1	30
46	Performance enhancement of autonomous system comprising proton exchange membrane fuel cells and switched reluctance motor. Energy, 2018, 163, 699-711.	4.5	28
47	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
48	Efficient PEM fuel cells parameters identification using hybrid artificial bee colony differential evolution optimizer. Energy, 2022, 250, 123830.	4.5	24
49	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
50	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
51	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
52	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
53	Investigating dynamic performances of fuel cells using pathfinder algorithm. Energy Conversion and Management, 2021, 237, 114099.	4.4	19
54	Effective coordination settings for directional overcurrent relay using hybrid Gradient-based optimizer. Applied Soft Computing Journal, 2021, 112, 107748.	4.1	19

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55	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
56	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
57	Parameters Identification of PV Triple-Diode Model Using Improved Generalized Normal Distribution Algorithm. Mathematics, 2021, 9, 995.	1.1	18
58	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
59	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
60	Adaptive and efficient optimization model for optimal parameters of proton exchange membrane fuel cells: A comprehensive analysis. Energy, 2021, 233, 121096.	4.5	16
61	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
62	Emended heap-based optimizer for characterizing performance of industrial solar generating units using triple-diode model. Energy, 2021, 237, 121561.	4.5	14
63	Performance Assessment of Solar Generating Units Based on Coot Bird Metaheuristic Optimizer. IEEE Access, 2021, 9, 111616-111632.	2.6	13
64	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
65	Efficient Ranking-Based Whale Optimizer for Parameter Extraction of Three-Diode Photovoltaic Model: Analysis and Validations. Energies, 2021, 14, 3729.	1.6	11
66	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
67	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
68	Fault diagnosis of power systems using binary information of breakers and relays through DPNs. , 0, , .		9
69	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
70	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
71	Cost Minimizations and Performance Enhancements of Power Systems Using Spherical Prune Differential Evolution Algorithm Including Modal Analysis. Sustainability, 2021, 13, 8113.	1.6	9
72	Robust Design of Power System Stabilizers Using Improved Harris Hawk Optimizer for Interconnected Power System. Sustainability, 2021, 13, 11776.	1.6	9

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73	Various Metaheuristic-Based Algorithms for Optimal Relay Coordination: Review and Prospective. Archives of Computational Methods in Engineering, 2021, 28, 3621-3629.	6.0	8
74	STEADY-STATE MODELLING OF PEM FUEL CELLS USING GRADIENT-BASED OPTIMIZER. Dyna (Spain), 2021, 96, 520-527.	0.1	8
75	Dynamic Performance Evaluation of Photovoltaic Three-Diode Model-Based Rung-Kutta Optimizer. IEEE Access, 2022, 10, 38309-38323.	2.6	8
76	Reactive power compensation in distribution networks using cuckoo search algorithm. International Journal of Bio-Inspired Computation, 2014, 6, 230.	0.6	5
77	Fault diagnosis in power systems-substation level-through hybrid artificial neural networks and expert system. , 0, , .		4
78	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
79	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
80	Over-Current Relays Coordination Including Practical Constraints and DGs: Damage Curves, Inrush, and Starting Currents. Sustainability, 2022, 14, 2761.	1.6	4
81	Minimization of energy loss using integrated evolutionary approaches. , 2012, , .		2
82	Artificial Bee Colony-Based Approach for Optimal Capacitor Placement in Distribution Networks. Lecture Notes in Computer Science, 2013, , 424-435.	1.0	2
83	Emission/Economic Load Dispatch Using Combination of Evolutionary Algorithms. International Journal of Soft Computing, 2012, 7, 256-263.	0.4	0