

Hany M Hasanien

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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.

169 papers	4,397 citations	40 h-index	60 g-index
187 ext. papers	6,125 ext. citations	4.5 avg, IF	7.17 L-index

#	Paper	IF	Citations
169	Optimal power flow solution in power systems using a novel Sine-Cosine algorithm. <i>International Journal of Electrical Power and Energy Systems</i> , 2018 , 99, 331-343	5.1	171
168	Single and Multi-objective Optimal Power Flow Using Grey Wolf Optimizer and Differential Evolution Algorithms. <i>Electric Power Components and Systems</i> , 2015 , 43, 1548-1559	1	165
167	Design Optimization of Transverse Flux Linear Motor for Weight Reduction and Performance Improvement Using Response Surface Methodology and Genetic Algorithms. <i>IEEE Transactions on Energy Conversion</i> , 2010 , 25, 598-605	5.4	130
166	Identification of electrical parameters for three-diode photovoltaic model using analytical and sunflower optimization algorithm. <i>Applied Energy</i> , 2019 , 250, 109-117	10.7	118
165	Whale optimisation algorithm for automatic generation control of interconnected modern power systems including renewable energy sources. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 607-614	2.5	112
164	Shuffled Frog Leaping Algorithm for Photovoltaic Model Identification. <i>IEEE Transactions on Sustainable Energy</i> , 2015 , 6, 509-515	8.2	109
163	Design Optimization of Controller Parameters Used in Variable Speed Wind Energy Conversion System by Genetic Algorithms. <i>IEEE Transactions on Sustainable Energy</i> , 2012 , 3, 200-208	8.2	104
162	An Adaptive Control Strategy for Low Voltage Ride Through Capability Enhancement of Grid-Connected Photovoltaic Power Plants. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3230-3237	7	101
161	Particle Swarm Design Optimization of Transverse Flux Linear Motor for Weight Reduction and Improvement of Thrust Force. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 4048-4056	8.9	100
160	Enhanced salp swarm algorithm: Application to variable speed wind generators. <i>Engineering Applications of Artificial Intelligence</i> , 2019 , 80, 82-96	7.2	96
159	Design Optimization of PID Controller in Automatic Voltage Regulator System Using Taguchi Combined Genetic Algorithm Method. <i>IEEE Systems Journal</i> , 2013 , 7, 825-831	4.3	95
158	Coyote optimization algorithm for parameters extraction of three-diode photovoltaic models of photovoltaic modules. <i>Energy</i> , 2019 , 187, 116001	7.9	85
157	Parameters extraction of three-diode photovoltaic model using computation and Harris Hawks optimization. <i>Energy</i> , 2020 , 195, 117040	7.9	85
156	An Adaptive Fuzzy Logic Control Strategy for Performance Enhancement of a Grid-Connected PMSG-Based Wind Turbine. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 3163-3173	11.9	81
155	Parameters estimation of single- and multiple-diode photovoltaic model using whale optimisation algorithm. <i>IET Renewable Power Generation</i> , 2018 , 12, 1755-1761	2.9	79
154	Performance improvement of photovoltaic power systems using an optimal control strategy based on whale optimization algorithm. <i>Electric Power Systems Research</i> , 2018 , 157, 168-176	3.5	77
153	A Set-Membership Affine Projection Algorithm-Based Adaptive-Controlled SMES Units for Wind Farms Output Power Smoothing. <i>IEEE Transactions on Sustainable Energy</i> , 2014 , 5, 1226-1233	8.2	74

152	Harmony Search Algorithm-Based Controller Parameters Optimization for a Distributed-Generation System. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 246-255	4.3	73
151	Salp swarm algorithm-based optimal load frequency control of hybrid renewable power systems with communication delay and excitation cross-coupling effect. <i>Electric Power Systems Research</i> , 2019 , 176, 105938	3.5	71
150	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 158-165	10.7	68
149	Augmented grey wolf optimizer for grid-connected PMSG-based wind energy conversion systems. <i>Applied Soft Computing Journal</i> , 2018 , 69, 504-515	7.5	68
148	Semi-empirical PEM fuel cells model using whale optimization algorithm. <i>Energy Conversion and Management</i> , 2019 , 201, 112197	10.6	67
147	A Taguchi Approach for Optimum Design of Proportional-Integral Controllers in Cascaded Control Scheme. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 1636-1644	7	65
146	Transient stability enhancement of wind farms connected to a multi-machine power system by using an adaptive ANN-controlled SMES. <i>Energy Conversion and Management</i> , 2014 , 78, 412-420	10.6	63
145	Tree-seed algorithm for solving optimal power flow problem in large-scale power systems incorporating validations and comparisons. <i>Applied Soft Computing Journal</i> , 2018 , 64, 307-316	7.5	60
144	Symbiotic organisms search algorithm for automatic generation control of interconnected power systems including wind farms. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 1692-1700	2.5	57
143	Speed control of grid-connected switched reluctance generator driven by variable speed wind turbine using adaptive neural network controller. <i>Electric Power Systems Research</i> , 2012 , 84, 206-213	3.5	56
142	Parameters extraction of PEMFC model using manta rays foraging optimizer. <i>International Journal of Energy Research</i> , 2020 , 44, 4629-4640	4.5	55
141	Reduction of frequency fluctuation for wind farm connected power systems by an adaptive artificial neural network controlled energy capacitor system. <i>IET Renewable Power Generation</i> , 2012 , 6, 226	2.9	50
140	Marine Predators Algorithm for Parameters Identification of Triple-Diode Photovoltaic Models. <i>IEEE Access</i> , 2020 , 8, 155832-155842	3.5	50
139	Effective methodology based on neural network optimizer for extracting model parameters of PEM fuel cells. <i>International Journal of Energy Research</i> , 2019 , 43, 8136-8147	4.5	48
138	Parameter Estimation of Three Diode Photovoltaic Model Using Grasshopper Optimization Algorithm. <i>Energies</i> , 2020 , 13, 497	3.1	47
137	A Grey Wolf Optimizer for Optimum Parameters of Multiple PI Controllers of a Grid-Connected PMSG Driven by Variable Speed Wind Turbine. <i>IEEE Access</i> , 2018 , 6, 44120-44128	3.5	47
136	Salp swarm optimizer to solve optimal power flow comprising voltage stability analysis. <i>Neural Computing and Applications</i> , 2020 , 32, 5267-5283	4.8	47
135	Hybrid ANFIS-GA-based control scheme for performance enhancement of a grid-connected wind generator. <i>IET Renewable Power Generation</i> , 2018 , 12, 832-843	2.9	46

134	Transient stability enhancement of a grid-connected wind farm using an adaptive neuro-fuzzy controlled-flywheel energy storage system. <i>IET Renewable Power Generation</i> , 2015 , 9, 792-800	2.9	44
133	Transient search optimization for electrical parameters estimation of photovoltaic module based on datasheet values. <i>Energy Conversion and Management</i> , 2020 , 214, 112904	10.6	44
132	Shuffled frog leaping algorithm-based static synchronous compensator for transient stability improvement of a grid-connected wind farm. <i>IET Renewable Power Generation</i> , 2014 , 8, 722-730	2.9	43
131	Optimum design of hybrid wind/PV energy system for remote area. <i>Ain Shams Engineering Journal</i> , 2020 , 11, 11-23	4.4	42
130	Transient search optimization: a new meta-heuristic optimization algorithm. <i>Applied Intelligence</i> , 2020 , 50, 3926-3941	4.9	40
129	Optimisation of controller parameters for grid-tied photovoltaic system at faulty network using artificial neural network-based cuckoo search algorithm. <i>IET Renewable Power Generation</i> , 2017 , 11, 1517-1526	7.9	40
128	Affine projection algorithm based adaptive control scheme for operation of variable-speed wind generator. <i>IET Generation, Transmission and Distribution</i> , 2015 , 9, 2611-2616	2.5	39
127	FPGA implementation of adaptive ANN controller for speed regulation of permanent magnet stepper motor drives. <i>Energy Conversion and Management</i> , 2011 , 52, 1252-1257	10.6	39
126	A novel hybrid GWO-PSO optimization technique for optimal reactive power dispatch problem solution. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 621-630	4.4	39
125	Enhanced whale optimization algorithm for maximum power point tracking of variable-speed wind generators. <i>Applied Soft Computing Journal</i> , 2020 , 86, 105937	7.5	38
124	Optimal Power Flow of Power Systems Including Distributed Generation Units Using Sunflower Optimization Algorithm. <i>IEEE Access</i> , 2019 , 7, 109289-109300	3.5	37
123	Transient Stability Augmentation of a Wave Energy Conversion System Using a Water Cycle Algorithm-Based Multiobjective Optimal Control Strategy. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 3411-3419	11.9	31
122	Optimal design of automatic voltage regulation controller using hybrid simulated annealing and Manta ray foraging optimization algorithm. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 641-657	4.4	30
121	Gravitational search algorithm-based optimal control of archimedes wave swing-based wave energy conversion system supplying a DC microgrid under uncertain dynamics. <i>IET Renewable Power Generation</i> , 2017 , 11, 763-770	2.9	29
120	Salp swarm algorithm-based TS-FLCs for MPPT and fault ride-through capability enhancement of wind generators. <i>ISA Transactions</i> , 2020 , 101, 211-224	5.5	29
119	RTDS implementation of an improved sliding mode based inverter controller for PV system. <i>ISA Transactions</i> , 2016 , 62, 50-9	5.5	29
118	Whale optimization algorithm-based Sugeno fuzzy logic controller for fault ride-through improvement of grid-connected variable speed wind generators. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 87, 103328	7.2	29
117	Water cycle algorithm-based optimal control strategy for efficient operation of an autonomous microgrid. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 5739-5746	2.5	28

116	Torque ripple minimization of permanent magnet synchronous motor using digital observer controller. <i>Energy Conversion and Management</i> , 2010 , 51, 98-104	10.6	26
115	Artificial electric field algorithm to extract nine parameters of triple-diode photovoltaic model. <i>International Journal of Energy Research</i> , 2021 , 45, 590-604	4.5	26
114	Particle Swarm Optimization-based Superconducting Magnetic Energy Storage for Low-voltage Ride-through Capability Enhancement in Wind Energy Conversion System. <i>Electric Power Components and Systems</i> , 2015 , 43, 1278-1288	1	25
113	Whale optimisation algorithm for photovoltaic model identification. <i>Journal of Engineering</i> , 2017 , 2017, 1906-1911	0.7	24
112	Hybrid cuckoo search algorithm and grey wolf optimiser-based optimal control strategy for performance enhancement of HVDC-based offshore wind farms. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 1902-1911	2.5	23
111	Salp swarm algorithm-based optimal control scheme for LVRT capability improvement of grid-connected photovoltaic power plants: design and experimental validation. <i>IET Renewable Power Generation</i> , 2020 , 14, 591-599	2.9	23
110	Marine predators algorithm for load frequency control of modern interconnected power systems including renewable energy sources and energy storage units. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 3843-3843	4.4	23
109	Economical-technical-environmental operation of power networks with wind-solar-hydropower generation using analytic hierarchy process and improved grey wolf algorithm. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 2717-2734	4.4	23
108	Optimized settings of directional overcurrent relays in meshed power networks using stochastic fractal search algorithm. <i>International Transactions on Electrical Energy Systems</i> , 2017 , 27, e2395	2.2	22
107	A novel distributed generation planning algorithm via graphically-based network reconfiguration and soft open points placement using Archimedes optimization algorithm. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 1923-1941	4.4	20
106	Output power smoothing of wind power plants using self-tuned controlled SMES units. <i>Electric Power Systems Research</i> , 2020 , 178, 106056	3.5	20
105	A novel LMSRE-based adaptive PI control scheme for grid-integrated PMSG-based variable-speed wind turbine. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 125, 106505	5.1	20
104	Rooftop Solar PV Penetration Impacts on Distribution Network and Further Growth FactorsA Comprehensive Review. <i>Electronics (Switzerland)</i> , 2021 , 10, 55	2.6	18
103	A Novel Application of Improved Marine Predators Algorithm and Particle Swarm Optimization for Solving the ORPD Problem. <i>Energies</i> , 2020 , 13, 5679	3.1	17
102	Low voltage ride-through capability enhancement of grid-connected permanent magnet synchronous generator driven directly by variable speed wind turbine: a review. <i>Journal of Engineering</i> , 2017 , 2017, 1750-1754	0.7	17
101	Parameters identification of solid oxide fuel cell for static and dynamic simulation using comprehensive learning dynamic multi-swarm marine predators algorithm. <i>Energy Conversion and Management</i> , 2021 , 228, 113692	10.6	17
100	Operation and control of HVDC stations using continuous mixed p-norm-based adaptive fuzzy technique. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 2275-2282	2.5	16
99	Torque ripple minimization of axial laminations switched reluctance motor provided with digital lead controller. <i>Energy Conversion and Management</i> , 2010 , 51, 2402-2406	10.6	16

98	A Novel Adaptive Control Method for Performance Enhancement of Grid-Connected Variable-Speed Wind Generators. <i>IEEE Access</i> , 2020 , 8, 82617-82629	3.5	15
97	Equilibrium optimizer for parameter extraction of a fuel cell dynamic model. <i>Renewable Energy</i> , 2021 , 169, 117-128	8.1	15
96	Optimal Fuzzy PIDF Load Frequency Controller for Hybrid Microgrid System Using Marine Predator Algorithm. <i>IEEE Access</i> , 2021 , 9, 54220-54232	3.5	15
95	Water cycle algorithm for optimal overcurrent relays coordination in electric power systems. <i>Soft Computing</i> , 2019 , 23, 12761-12778	3.5	14
94	Linear-Quadratic Regulator Algorithm-Based Cascaded Control Scheme for Performance Enhancement of a Variable-Speed Wind Energy Conversion System. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 2281-2293	2.5	14
93	Identification of the photovoltaic model parameters using the crow search algorithm. <i>Journal of Engineering</i> , 2017 , 2017, 1570-1575	0.7	14
92	A new control strategy for smoothing of wind farm output using short-term ahead wind speed prediction and Flywheel energy storage system 2012 ,		14
91	An Adaptive-controlled Superconducting Magnetic Energy Storage Unit for Stabilizing a Grid-connected Wind Generator. <i>Electric Power Components and Systems</i> , 2015 , 43, 1072-1079	1	13
90	Robust Model Predictive Control Paradigm for Automatic Voltage Regulators against Uncertainty Based on Optimization Algorithms. <i>Mathematics</i> , 2021 , 9, 2885	2.3	13
89	Sunflower optimization algorithm-based optimal PI control for enhancing the performance of an autonomous operation of a microgrid. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 1883-1893	4.4	13
88	Speed control of permanent magnet excitation transverse flux linear motor by using adaptive neuro-fuzzy controller. <i>Energy Conversion and Management</i> , 2010 , 51, 2762-2768	10.6	12
87	Precise modeling of PEM fuel cell using improved chaotic MayFly optimization algorithm. <i>International Journal of Energy Research</i> , 2021 , 45, 18754	4.5	12
86	A Novel Hybrid Fuzzy-JAYA Optimization Algorithm for Efficient ORPD Solution. <i>IEEE Access</i> , 2019 , 7, 182078-182088	3.5	12
85	Towards accurate calculation of supercapacitor electrical variables in constant power applications using new analytical closed-form expressions. <i>Journal of Energy Storage</i> , 2021 , 42, 102998	7.8	12
84	Archimedes optimization algorithm based maximum power point tracker for wind energy generation system. <i>Ain Shams Engineering Journal</i> , 2021 ,	4.4	11
83	Parameter Identification of Proton Exchange Membrane Fuel Cell Based on Hunger Games Search Algorithm. <i>Energies</i> , 2021 , 14, 5022	3.1	11
82	Reactive power control of three-phase low voltage system based on voltage to increase PV penetration levels. <i>Ain Shams Engineering Journal</i> , 2018 , 9, 1831-1837	4.4	10
81	Output power smoothing of grid-connected permanent-magnet synchronous generator driven directly by variable speed wind turbine: a review. <i>Journal of Engineering</i> , 2017 , 2017, 1755-1759	0.7	10

80	High Performance Frequency Converter Controlled Variable-Speed Wind Generator Using Linear-Quadratic Regulator Controller. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 5489-5498	4.3	10
79	Optimal Transient Search Algorithm-Based PI Controllers for Enhancing Low Voltage Ride-Through Ability of Grid-Linked PMSG-Based Wind Turbine. <i>Electronics (Switzerland)</i> , 2020 , 9, 1807	2.6	10
78	Electrical Parameters Identification of Three-Diode Photovoltaic Model Based on Equilibrium Optimizer Algorithm. <i>IEEE Access</i> , 2021 , 9, 41891-41901	3.5	10
77	Symbiotic organisms search algorithm-based optimal control strategy for efficient operation of variable-speed wind generators. <i>IET Renewable Power Generation</i> , 2019 , 13, 2684-2692	2.9	9
76	Solving of Optimal Power Flow Problem Including Renewable Energy Resources Using HEAP Optimization Algorithm. <i>IEEE Access</i> , 2021 , 9, 35846-35863	3.5	9
75	Speed Control of Switched Reluctance Motor Using Artificial Neural Network Controller. <i>Communications in Computer and Information Science</i> , 2011 , 6-14	0.3	8
74	DC Nanogrids for Integration of Demand Response and Electric Vehicle Charging Infrastructures: Appraisal, Optimal Scheduling and Analysis. <i>Electronics (Switzerland)</i> , 2021 , 10, 2484	2.6	8
73	Optimal Dispatch Strategy of Virtual Power Plant for Day-Ahead Market Framework. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3814	2.6	8
72	Elephant herding algorithm-based optimal PI controller for LVRT enhancement of wind energy conversion systems. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 599-608	4.4	8
71	A Comparative Study among Different Algorithms Investigating Optimum Design of PID Controller in Automatic Voltage Regulator 2018 ,		8
70	Proton Exchange Membrane Fuel Cells Modeling Using Chaos Game Optimization Technique. <i>Sustainability</i> , 2021 , 13, 7911	3.6	8
69	A mixed-integer-linear-logical programming interval-based model for optimal scheduling of isolated microgrids with green hydrogen-based storage considering demand response. <i>Journal of Energy Storage</i> , 2022 , 48, 104028	7.8	7
68	Competition over resources optimized fuzzy TIDF controller for frequency stabilization of hybrid micro-grid system. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12513	2.2	7
67	Optimal Power Flow of Power Systems Using Hybrid Firefly and Particle Swarm Optimization Technique 2019 ,		7
66	Multi-Regional Optimal Power Flow Using Marine Predators Algorithm Considering Load and Generation Variability. <i>IEEE Access</i> , 2021 , 9, 74600-74613	3.5	7
65	Crow search algorithm for improving the performance of an inverter-based distributed generation system 2017 ,		6
64	Short term load forecasting using ANN technique 2017 ,		6
63	Dynamic response improvement of doubly fed induction generator-based wind farm using fuzzy logic controller. <i>Journal of Electrical Engineering</i> , 2012 , 63, 281-288	0.6	6

62	Frequency control of isolated network with wind and diesel generators by using fuzzy logic controller 2009 ,		6
61	Proton Exchange Membrane Fuel Cell Steady State Modeling Using Marine Predator Algorithm Optimizer. <i>Ain Shams Engineering Journal</i> , 2021 ,	4.4	6
60	AC&DC optimal power flow incorporating centralized/decentralized multi-region grid control employing the whale algorithm. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 1907-1922	4.4	6
59	Shuffled Frog Leaping Algorithm for Multi-objective Design Optimization of Transverse Flux Linear Motor. <i>Electric Power Components and Systems</i> , 2016 , 44, 1307-1315	1	5
58	Accurate Photovoltaic Models Based on an Adaptive Opposition Artificial Hummingbird Algorithm. <i>Electronics (Switzerland)</i> , 2022 , 11, 318	2.6	5
57	BONMIN solver-based coordination of distributed FACTS compensators and distributed generation units in modern distribution networks. <i>Ain Shams Engineering Journal</i> , 2022 , 13, 101664	4.4	5
56	Enhancing rotor angle stability of power systems using marine predator algorithm based cascaded PID control. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 1849-1857	4.4	5
55	Performance enhancement of power systems with wave energy using gravitational search algorithm based TCSC devices 2016 , 19, 1661-1667		5
54	Output Power Smoothing of Grid-Tied PMSG-Based Variable Speed Wind Turbine Using Optimal Controlled SMES 2019 ,		5
53	. <i>IEEE Access</i> , 2021 , 1-1	3.5	5
52	Categorisation of power quality problems using long short-term memory networks. <i>IET Generation, Transmission and Distribution</i> , 2021 , 15, 1626-1639	2.5	5
51	2018 ,		5
50	Two Novel Approaches for Identification of Synchronous Machine Parameters from Short-Circuit Current Waveform. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	5
49	Dynamic performance enhancement of a grid-connected wind farm using doubly fed induction machine-based flywheel energy storage system 2015 ,		4
48	Grasshopper Optimization Algorithm-Based PI Controller Scheme for Performance Enhancement of a Grid-Connected Wind Generator. <i>Journal of Control, Automation and Electrical Systems</i> , 2020 , 31, 393-407	1.5	4
47	Reconstruction of the Switched Reluctance Motor Stator. <i>Journal of Electrical Engineering</i> , 2012 , 63, 3-12.	2.6	4
46	Optimal Power Flow of Power Networks with Penetration of Renewable Energy Sources By Harris hawks Optimization Method 2020 ,		4
45	Cuttlefish Optimization Algorithm based Optimal PI Controller for Performance Enhancement of an Autonomous Operation of a DG System 2020 ,		4

44	Rider Optimization Algorithm for Optimal DG Allocation in Radial Distribution Network 2020 ,		4
43	Hierarchical Model Predictive Control for Performance Enhancement of Autonomous Microgrids. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 1867-1881	4.4	4
42	An improved heap optimization algorithm for efficient energy management based optimal power flow model. <i>Energy</i> , 2022 , 250, 123795	7.9	4
41	Circle Search Algorithm: A Geometry-Based Metaheuristic Optimization Algorithm. <i>Mathematics</i> , 2022 , 10, 1626	2.3	4
40	Optimal design of cascaded control scheme for PV system using BFO algorithm 2015 ,		3
39	Application of an adaptive neuro-fuzzy controller for speed control of switched reluctance generator driven by variable speed wind turbine 2015 ,		3
38	Bacterial Foraging Based Optimal Design of Transverse Flux Linear Motor for Thrust Force Improvement. <i>Electric Power Components and Systems</i> , 2015 , 43, 95-104	1	3
37	Speed control of permanent magnet synchronous motor using fuzzy logic controller 2009 ,		3
36	Thermal model of supercapacitors operating in constant power applications: New mathematical expressions for precise calculation of temperature change. <i>Journal of Energy Storage</i> , 2022 , 49, 104121	7.8	3
35	OPF of Modern Power Systems Comprising Renewable Energy Sources Using Improved CHGS Optimization Algorithm. <i>Energies</i> , 2021 , 14, 6962	3.1	3
34	Dynamic Stability Improvement of AWS-Based Wave Energy Systems Using a Multiobjective Salp Swarm Algorithm-Based Optimal Control Scheme. <i>IEEE Systems Journal</i> , 2020 , 1-9	4.3	3
33	Optimal distributed generation and battery energy storage units integration in distribution systems considering power generation uncertainty. <i>IET Generation, Transmission and Distribution</i> ,	2.5	3
32	Cost Minimizations and Performance Enhancements of Power Systems Using Spherical Prune Differential Evolution Algorithm Including Modal Analysis. <i>Sustainability</i> , 2021 , 13, 8113	3.6	3
31	Harris Hawks Algorithm for Automatic Generation Control of Interconnected Power Systems 2019 ,		3
30	Photovoltaic Array Reconfiguration to Reduce Partial Shading Losses using Water Cycle Algorithm 2019 ,		3
29	A PEMFC model optimization using the enhanced bald eagle algorithm. <i>Ain Shams Engineering Journal</i> , 2022 , 13, 101749	4.4	3
28	A cuckoo search algorithm optimizer for steady-state analysis of self-excited induction generator. <i>Ain Shams Engineering Journal</i> , 2018 , 9, 2549-2555	4.4	2
27	Transient stability improvement of wave energy conversion systems connected to power grid using anti-windup-coot optimization strategy. <i>Energy</i> , 2022 , 245, 123321	7.9	2

26	Coot Bird Algorithms-Based Tuning PI Controller for Optimal Microgrid Autonomous Operation. <i>IEEE Access</i> , 2022 , 10, 6442-6458	3.5	2
25	Identifying Optimal Parameters of Proton Exchange Membrane Fuel Cell Using Water Cycle Algorithm 2020 ,		2
24	Application of an Adaptive Artificial Neural Network Controller for Improving the Dynamic Response of Doubly Fed Induction Generators-Based Wind Farm. <i>Journal of Bioinformatics and Intelligent Control</i> , 2013 , 2, 83-91		2
23	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
22	Optimal Values of Unknown Parameters of Polymer Electrolyte Membrane Fuel Cells Using Improved Chaotic Electromagnetic Field Optimization 2020 ,		2
21	Optimal PID Controllers for AVR System Considering Excitation Voltage Limitations Using Hybrid Equilibrium Optimizer. <i>Machines</i> , 2021 , 9, 265	2.9	2
20	Development of Analytical Technique for Optimal DG and Capacitor Allocation in Radial Distribution Systems Considering Load Variation 2019 ,		2
19	High-Performance Frequency Converter Controlled Variable-Speed Wind Generator Using Linear-Quadratic Regulator Controller 2019 ,		2
18	A Vector Controlled Drive System for Electrically Power Assisted Steering Using Hall-Effect Sensors. <i>IEEE Access</i> , 2021 , 9, 116485-116499	3.5	2
17	Precise modeling of PEM fuel cell using a novel Enhanced Transient Search Optimization algorithm. <i>Energy</i> , 2022 , 247, 123530	7.9	2
16	A stochastic-interval model for optimal scheduling of PV-assisted multi-mode charging stations. <i>Energy</i> , 2022 , 124219	7.9	2
15	Fractional order PI controller based on hill climbing technique for improving MPPT of the BDF-RG driven by wind turbine 2017 ,		1
14	Three-dimension core loss analysis of transverse flux linear motor based on the improved Steinmetz equation 2017 ,		1
13	Speed control of permanent magnet synchronous motor using digital pole placement controller 2009 ,		1
12	Enhancement of frequency stability of power systems integrated with wind energy using marine predator algorithm based PIDA controlled STATCOM. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 61, 5851-5851	6.1	1
11	Over Frequency Problem Mitigation Using Grasshopper Based PID Auxiliary Governors 2019 ,		1
10	Mann-Iteration Process for Power Flow Calculation of Large-Scale Ill-Conditioned Systems: Theoretical Analysis and Numerical Results. <i>IEEE Access</i> , 2021 , 9, 132255-132266	3.5	1
9	Manta Ray Foraging Optimization for the Virtual Inertia Control of Islanded Microgrids Including Renewable Energy Sources. <i>Sustainability</i> , 2022 , 14, 4189	3.6	1

8	Hybrid CSA-GWO Algorithm-Based Optimal Control Strategy for Efficient Operation of Variable-Speed Wind Generators. <i>Green Energy and Technology</i> , 2021 , 227-245	0.6	o
7	Stability Enhancement of Wind Energy Conversion Systems Based on Optimal Superconducting Magnetic Energy Storage Systems Using the Archimedes Optimization Algorithm. <i>Processes</i> , 2022 , 10, 366	2.9	o
6	Uncertainty-aware day-ahead scheduling of microgrids considering response fatigue: An IGDT approach. <i>Applied Energy</i> , 2022 , 310, 118611	10.7	o
5	Enhanced block-sparse adaptive Bayesian algorithm based control strategy of superconducting magnetic energy storage units for wind farms power ripple minimization. <i>Journal of Energy Storage</i> , 2022 , 50, 104208	7.8	o
4	Nonlinear Modeling and Real-Time Simulation of a Grid-Connected AWS Wave Energy Conversion System. <i>IEEE Transactions on Sustainable Energy</i> , 2022 , 1-1	8.2	o
3	Accurate Three-Diode model estimation of Photovoltaic modules using a novel circle search algorithm. <i>Ain Shams Engineering Journal</i> , 2022 , 101824	4.4	o
2	Grid Connection Scheme of a Variable Speed Wind Turbine Driven Switched Reluctance Generator. <i>Green Energy and Technology</i> , 2012 , 131-153	0.6	
1	Solving realistic large-scale ill-conditioned power flow cases based on combination of numerical solvers. <i>International Transactions on Electrical Energy Systems</i> , e13194	2.2	