

# Ahmed A Zaki Diab

## List of Publications by Year in descending order

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Version: 2024-02-01

102  
papers

1,982  
citations

304743

22  
h-index

289244

40  
g-index

103  
all docs

103  
docs citations

103  
times ranked

1475  
citing authors

#	ARTICLE	IF	CITATIONS
1	Partial shading mitigation of PV systems via different meta-heuristic techniques. <i>Renewable Energy</i> , 2019, 130, 1159-1175.	8.9	141
2	A Neural-Network-Based Model Predictive Control of Three-Phase Inverter With an Output LCL Filter. <i>IEEE Access</i> , 2019, 7, 124737-124749.	4.2	140
3	Application of Different Optimization Algorithms for Optimal Sizing of PV/Wind/Diesel/Battery Storage Stand-Alone Hybrid Microgrid. <i>IEEE Access</i> , 2019, 7, 119223-119245.	4.2	137
4	Coyote Optimization Algorithm for Parameters Estimation of Various Models of Solar Cells and PV Modules. <i>IEEE Access</i> , 2020, 8, 111102-111140.	4.2	102
5	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.	6.1	96
6	Optimal Performance of Dynamic Particle Swarm Optimization Based Maximum Power Trackers for Stand-Alone PV System Under Partial Shading Conditions. <i>IEEE Access</i> , 2020, 8, 20770-20785.	4.2	96
7	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	68
8	An efficient Manta Ray Foraging Optimization algorithm for parameter extraction of three-diode photovoltaic model. <i>Computers and Electrical Engineering</i> , 2021, 94, 107304.	4.8	64
9	Optimal sizing of hybrid solar/wind/hydroelectric pumped storage energy system in Egypt based on different meta-heuristic techniques. <i>Environmental Science and Pollution Research</i> , 2020, 27, 32318-32340.	5.3	58
10	Tree Growth Based Optimization Algorithm for Parameter Extraction of Different Models of Photovoltaic Cells and Modules. <i>IEEE Access</i> , 2020, 8, 119668-119687.	4.2	56
11	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.	5.6	55
12	Optimal sizing of smart hybrid renewable energy system using different optimization algorithms. <i>Energy Reports</i> , 2022, 8, 4935-4956.	5.1	54
13	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.	2.3	46
14	Fuel Cell Parameters Estimation via Marine Predators and Political Optimizers. <i>IEEE Access</i> , 2020, 8, 166998-167018.	4.2	46
15	Impact of Optimum Allocation of Renewable Distributed Generations on Distribution Networks Based on Different Optimization Algorithms. <i>Energies</i> , 2018, 11, 245.	3.1	42
16	Parameter estimation of PEMFC model based on Harris Hawks™ optimization and atom search optimization algorithms. <i>Neural Computing and Applications</i> , 2021, 33, 5555-5570.	5.6	36
17	Evaluation of the Impact of High Penetration Levels of PV Power Plants on the Capacity, Frequency and Voltage Stability of Egypt's Unified Grid. <i>Energies</i> , 2019, 12, 552.	3.1	34
18	A Novel Hybrid Ant Colony-Particle Swarm Optimization Techniques Based Tuning STATCOM for Grid Code Compliance. <i>IEEE Access</i> , 2020, 8, 41566-41587.	4.2	33

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19	Marine predators algorithm for parameters estimation of photovoltaic modules considering various weather conditions. <i>Neural Computing and Applications</i> , 2021, 33, 11799-11819.	5.6	30
20	Photovoltaic parameter estimation using honey badger algorithm and African vulture optimization algorithm. <i>Energy Reports</i> , 2022, 8, 384-393.	5.1	29
21	Finite-time and sampled-data synchronization of complex dynamical networks subject to average dwell-time switching signal. <i>Neural Networks</i> , 2022, 149, 137-145.	5.9	28
22	Optimal design and analysis of DC-DC converter with maximum power controller for stand-alone PV system. <i>Energy Reports</i> , 2021, 7, 4951-4960.	5.1	25
23	Effective Direct Power Control for a Sensor-Less Doubly Fed Induction Generator with a Losses Minimization Criterion. <i>Electronics (Switzerland)</i> , 2020, 9, 1269.	3.1	21
24	LVCI approach for optimal allocation of distributed generations and capacitor banks in distribution grids based on moth-flame optimization algorithm. <i>Electrical Engineering</i> , 2018, 100, 2059-2084.	2.0	20
25	Optimal allocation and sizing of multiple distributed generators in distribution networks using a novel hybrid particle swarm optimization algorithm. , 2017, , .		18
26	Optimal sitting and sizing of renewable distributed generations in distribution networks using a hybrid PSO-GSA optimization algorithm. , 2017, , .		18
27	Site selection of large-scale grid-connected solar PV system in Egypt. , 2018, , .		18
28	Real-Time Implementation of Full-Order Observer for Speed Sensorless Vector Control of Induction Motor Drive. <i>Journal of Control, Automation and Electrical Systems</i> , 2014, 25, 639-648.	2.0	17
29	Study and analysis of power quality for an electric power distribution system - Case study: Moscow region. , 2016, , .		17
30	Comprehensive analysis of optimal allocation of capacitor banks in various distribution networks using different hybrid optimization algorithms. , 2017, , .		17
31	The Application of Water Cycle Optimization Algorithm for Optimal Placement of Wind Turbines in Wind Farms. <i>Energies</i> , 2019, 12, 4335.	3.1	16
32	Optimal Design and Control of MMC STATCOM for Improving Power Quality Indicators. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2490.	2.5	16
33	Optimal Sizing of Stand-Alone Microgrids Based on Recent Metaheuristic Algorithms. <i>Mathematics</i> , 2022, 10, 140.	2.2	16
34	Cascaded fuzzy logic based direct torque control of interior permanent magnet synchronous motor for variable speed electric drive systems. , 2018, , .		15
35	LVCI approach for optimal capacitors allocation in distribution networks based on hybrid PSO-GSA optimization algorithm. <i>Neural Computing and Applications</i> , 2019, 31, 3833-3850.	5.6	15
36	Cost-Effective Predictive Flux Control for a Sensorless Doubly Fed Induction Generator. <i>IEEE Access</i> , 2019, 7, 172606-172627.	4.2	14

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37	Accurate parameters extraction of PEMFC model based on metaheuristics algorithms. Energy Reports, 2021, 7, 6854-6867.	5.1	14
38	Comprehensive Validation of Transient Stability Calculations in Electric Power Systems and Hardware-Software Tool for Its Implementation. IEEE Access, 2020, 8, 136071-136091.	4.2	13
39	Comparative Study of Hysteresis Controller, Resonant Controller and Direct Torque Control of Five-Phase IM under Open-Phase Fault Operation. Energies, 2021, 14, 1317.	3.1	13
40	Enhancement of Power Quality with Hybrid Distributed Generation and FACTS Device. IETE Journal of Research, 2019, , 1-12.	2.6	12
41	Modified Farmland Fertility Optimization Algorithm for Optimal Design of a Grid-connected Hybrid Renewable Energy System with Fuel Cell Storage: Case Study of Ataka, Egypt. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.7	12
42	Assessment of Model Predictive Voltage Control for Autonomous Four-Leg Inverter. IEEE Access, 2020, 8, 101163-101180.	4.2	11
43	Integration of Renewable Distributed Generation in Distribution Networks Including a Practical Case Study Based on a Hybrid PSO-GSA Optimization Algorithm. Electric Power Components and Systems, 2018, 46, 2103-2116.	1.8	10
44	Analysis of application of back-to-back HVDC system in Tomsk electric power system. Energy Reports, 2020, 6, 438-444.	5.1	10
45	Robust Sensorless Model-Predictive Torque Flux Control for High-Performance Induction Motor Drives. Mathematics, 2021, 9, 403.	2.2	10
46	Novel Switching Frequency FCS-MPC of PMSG for Grid-Connected Wind Energy Conversion System with Coordinated Low Voltage Ride Through. Electronics (Switzerland), 2021, 10, 492.	3.1	10
47	An effective model parameter estimation of PEMFCs using GWO algorithm and its variants. IET Renewable Power Generation, 2022, 16, 1380-1400.	3.1	10
48	Implementation of a novel full-order observer for speed sensorless vector control of induction motor drives. Electrical Engineering, 2017, 99, 907-921.	2.0	9
49	Arrangement of Reactive Power Compensation Units in the Radial Distribution Network of Moscow Oblast. Russian Electrical Engineering, 2018, 89, 402-408.	0.6	9
50	Economic Feasibility Analysis of PV/Wind/Diesel/Battery Isolated Microgrid for Rural Electrification in South Egypt. , 2019, , .		9
51	Literature Review of Induction Motor Drives. Springer Briefs in Electrical and Computer Engineering, 2020, , 7-18.	0.5	9
52	Application of Linear Quadratic Gaussian and Coefficient Diagram Techniques to Distributed Load Frequency Control of Power Systems. Applied Sciences (Switzerland), 2015, 5, 1603-1615.	2.5	8
53	Particle swarm optimization based vector control of permanent magnet synchronous motor drive. , 2016, , .		8
54	Speed control of sensorless induction motor drive based on model predictive control. , 2013, , .		7

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55	A comparative study of speed control based on MPC and PI-controller for Indirect Field oriented control of induction motor drive. , 2014, , .		7
56	Model Predictive Direct Power Control of Rotor Side Converter for DFIGs Driven by Variable Speed Wind Turbines. , 2018, , .		7
57	Adaptive PI controller of active power filter for compensation of harmonics and voltage fluctuation based on particle swarm optimization (PSO). , 2018, , .		7
58	Active Distribution Network Modeling for Enhancing Sustainable Power System Performance; a Case Study in Egypt. Sustainability, 2020, 12, 8991.	3.2	7
59	Damping Oscillation Techniques for Wind Farm DFIG Integrated into Inter-Connected Power System. Electric Power Components and Systems, 2020, 48, 1551-1570.	1.8	7
60	Model predictive control of vector controlled induction motor drive. , 2012, , .		6
61	Adaptive model predictive based load frequency control in an interconnected power system. , 2018, , .		6
62	Robust Speed Controller Design Using H_infinity Theory for High-Performance Sensorless Induction Motor Drives. Energies, 2019, 12, 961.	3.1	6
63	Bio-inspired Optimization Techniques for Compensation Reactive Power and Voltage Profile Improvement in the Syrian Electrical Distribution Systems. , 2019, , .		6
64	Adaptive Load Frequency Control Based on Dynamic Jaya Optimization Algorithm of Power System with Renewable Energy Integration. , 2019, , .		6
65	Optimal shunt capacitors sittings and sizing in radial distribution systems using a novel hybrid optimization algorithm. , 2016, , .		5
66	Measurement and analysis of an electric power distribution system with optimal reactive power compensation for improving the power quality. Case study: Middle Egypt region. , 2017, , .		5
67	Cascade model predictive vector control of induction motor drive. , 2014, , .		4
68	Implementation of full order observer for speed sensorless vector control of induction motor drive. , 2014, , .		4
69	A new hybrid PSOCSA algorithm for optimal allocation and sizing of capacitor banks in RDS. , 2017, , .		4
70	Modelling and performance evaluation of the Egyptian national utility grid based on real data. , 2018, , .		4
71	Interleaved PWM Strategy for Common-Mode Leakage Current and EMI Noise Reduction of Paralleled Single-Stage DC-AC Converters. , 2020, , .		4
72	Robust Control Based on H $\infty$ and Linear Quadratic Gaussian of Load Frequency Control of Power Systems Integrated with Wind Energy System. Green Energy and Technology, 2021, , 73-86.	0.6	4

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73	Harmonic Analysis in Distribution Systems Using a Multi-Step Prediction with NARX. , 2020, , .		4
74	Performance of doubly-fed induction generator based wind turbine using adaptive neuro-fuzzy inference system. , 2016, , .		3
75	Novel robust simultaneous estimation of stator and rotor resistances and rotor speed to improve induction motor efficiency. International Journal of Power Electronics, 2017, 8, 267.	0.2	3
76	A Novel Hybrid Optimization Algorithm for Maximum Power Point Tracking of Partially Shaded Photovoltaic Systems. Green Energy and Technology, 2021, , 201-230.	0.6	3
77	Optimal identification of model parameters for PVs using equilibrium, coot bird and artificial ecosystem optimisation algorithms. IET Renewable Power Generation, 2022, 16, 2172-2190.	3.1	3
78	Sliding mode control of vector controlled induction motor drive. , 2012, , .		2
79	Vector controlled induction motor drive based on model predictive control. , 2012, , .		2
80	Parallel estimation of rotor resistance and speed for sensorless vector controlled induction motor drive. , 2016, , .		2
81	Fuzzy-based Adaptive Sliding Mode Control for a Direct-Driven PMSG Wind Energy System. , 2019, , .		2
82	Modified Adaptive Sliding Mode Control for Sensorless Direct-Drive Permanent Magnet Synchronous Generator Wind Turbines based on Fuzzy Logic Control. , 2019, , .		2
83	A novel optimisation method for optimal integration of the hybrid distributed generation with FACTS device: a practical case study. International Journal of Power and Energy Conversion, 2021, 12, 314.	0.3	2
84	Artificial Neural Based Speed and Flux Estimators for Induction Machine Drives with Matlab/Simulink. Mathematics, 2022, 10, 1348.	2.2	2
85	Robust simultaneous estimation of stator and rotor resistances and rotor speed for predictive maintenance of sensorless induction motor drives. International Journal of Power and Energy Conversion, 2017, 8, 411.	0.3	1
86	Feasibility Study of a Small-Scale Grid-Connected PV Power Plants in Egypt; Case Study: New Valley Governorate. International Journal of Advanced Computer Science and Applications, 2021, 12, .	0.7	1
87	Trajectory sensitivity analysis-based systematic Q-matrix of DFIG with LQR auxiliary voltage and power compensation for oscillation damping. International Journal of Electrical Power and Energy Systems, 2022, 135, 107575.	5.5	1
88	Robust Speed Controller Design Using H $\infty$ Theory for High Performance Sensorless Induction Motor Drives. Springer Briefs in Electrical and Computer Engineering, 2020, , 49-69.	0.5	1
89	Sensorless Vector Control for Photovoltaic Array Fed Induction Motor Driving Pumping System. Springer Briefs in Electrical and Computer Engineering, 2020, , 33-48.	0.5	1
90	New objective function of parameters extraction of photovoltaic modules for plummeting execution time complexity. IET Renewable Power Generation, 0, , .	3.1	1

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91	Robust controller for grid-tied PV inverters based on continuous non-linear predictive and integral sliding mode control. IET Power Electronics, 0, , .	2.1	1
92	Sliding mode control of vector controlled induction motor drive. , 2012, , .		0
93	Vector controlled induction motor drive based on model predictive control. , 2012, , .		0
94	Improved performance of brushless direct current motor. , 2016, , .		0
95	Speed sensorless vector controlled induction motor drive based stator and rotor resistances estimation taking core losses into account. , 2017, , .		0
96	Simulation and Experimental Validation of Two-Diode Model of Photovoltaic (PV) Modules. , 2018, , .		0
97	Evaluating Dynamic Performance of DTC under Grid Disturbance for a Wind Driven DFIG. , 2019, , .		0
98	Research, Development and Application of Hybrid Model of Back-to-Back HVDC Link. IEEE Access, 2020, 8, 174860-174870.	4.2	0
99	Enhancement of Transient Voltage Stability of Wind/PV Power System using Fuzzy Logic Based-SVC. , 2020, , .		0
100	Transformers Improvement and Environment Conservation by Using Synthetic Esters in Egypt. Energies, 2021, 14, 1992.	3.1	0
101	A Predictive Voltage Control Scheme For A Variable Speed Doubly Fed Induction Generator. , 2021, , .		0
102	A New Formula of Predictive Control for an Induction Motor:Comparative Study with MP DTC. , 2021, , .		0