Ali M Eltamaly

List of Publications by Year
in descending order

126 papers	3,560 citations	126901 33 h-index	168376 53 g-index
133 all docs	133 docs citations	133 times ranked	2242 citing authors

#	Article	IF	Citations
1	A novel particle swarm optimization optimal control parameter determination strategy for maximum power point trackers of partially shaded photovoltaic systems. Engineering Optimization, 2022, 54, 634-650.	2.6	13
2	Flexible Dispatch Strategy Adopted by Optimizing DG Parameters in a Real Time Power System Distributed Network. Journal of Electrical Engineering and Technology, 2022, 17, 847-861.	2.0	4
3	Modeling and Control of Single-Stage Quadratic-Boost Split Source Inverters. IEEE Access, 2022, 10, 24162-24180.	4.2	12
4	Novel Demand Side-Management Strategy for Smart Grid Concepts Applications in Hybrid Renewable Energy Systems. , 2022, , .		8
5	Musical chairs algorithm for parameters estimation of PV cells. Solar Energy, 2022, 241, 601-620.	6.1	15
6	Sensorless control for <scp>PMSM</scp> using model reference adaptive system. International Transactions on Electrical Energy Systems, 2021, 31, e12733.	1.9	12
7	Voltage Source Converter Control Under Unbalanced Grid Voltage. Green Energy and Technology, 2021, , 57-72.	0.6	0
8	D-STATCOM for Distribution Network Compensation Linked with Wind Generation. Green Energy and Technology, 2021, , 87-107.	0.6	3
9	Robust Control Based on Hâˇž 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
10	Design and Comprehensive Analysis of Maximum Power Point Tracking Techniques in Photovoltaic Systems. Green Energy and Technology, 2021, , 253-284.	0.6	0
11	Photovoltaic Maximum Power Point Trackers: An Overview. Green Energy and Technology, 2021, , 117-200.	0.6	6
12	Different Approaches for Efficiency Optimization of DFIG Wind Power Generation Systems. Green Energy and Technology, 2021, , 35-56.	0.6	0
13	Optimization of Wind Driven RO Plant for Brackish Water Desalination during Wind Speed Fluctuation with and without Battery. Membranes, 2021, 11, 77.	3.0	6
14	A Novel Demand Response Strategy for Sizing of Hybrid Energy System With Smart Grid Concepts. IEEE Access, 2021, 9, 20277-20294.	4.2	45
15	Wind Distributed Generation with the Power Distribution Network for Power Quality Control. Algorithms for Intelligent Systems, 2021, , 131-149.	0.6	0
16	New Software for Matching Between Wind Sites and Wind Turbines. Green Energy and Technology, 2021, , 275-317.	0.6	1
17	Novel Fuzzy-Swarm Optimization for Sizing of Hybrid Energy Systems Applying Smart Grid Concepts. IEEE Access, 2021, 9, 93629-93650.	4.2	25
18	An Improved Cuckoo Search Algorithm for Maximum Power Point Tracking of Photovoltaic Systems under Partial Shading Conditions. Energies, 2021, 14, 953.	3.1	65

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19	A novel sizing inherits allocation strategy of renewable distributed generations using crow search combined with particle swarm optimization algorithm. IET Renewable Power Generation, 2021, 15, 1436-1450.	3.1	10
20	Economical Study on Load Shaving by PV Implementation for Bulk Customers in Riyadh. , 2021, , .		0
21	Optimal control parameters for bat algorithm in maximum power point tracker of photovoltaic energy systems. International Transactions on Electrical Energy Systems, 2021, 31, e12839.	1.9	15
22	Optimal Design of Hybrid Renewable Energy System for a Reverse Osmosis Desalination System in Arar, Saudi Arabia. Arabian Journal for Science and Engineering, 2021, 46, 9879-9897.	3.0	18
23	A modified active frequency islanding detection method based on load frequency and chopping fraction changes. International Transactions on Electrical Energy Systems, 2021, 31, e13033.	1.9	4
24	IoT-Based Hybrid Renewable Energy System for Smart Campus. Sustainability, 2021, 13, 8555.	3.2	28
25	A novel musical chairs algorithm applied for MPPT of PV systems. Renewable and Sustainable Energy Reviews, 2021, 146, 111135.	16.4	70
26	A Novel Strategy for Optimal PSO Control Parameters Determination for PV Energy Systems. Sustainability, 2021, 13, 1008.	3.2	35
27	Wind Power Plants Control Systems Based on SCADA System. Green Energy and Technology, 2021, , 109-151.	0.6	4
28	Performance Analysis of a Stand-Alone PV/WT/Biomass/Bat System in Alrashda Village in Egypt. Applied Sciences (Switzerland), 2021, 11, 10191.	2.5	9
29	A Smart Strategy for Sizing of Hybrid Renewable Energy System to Supply Remote Loads in Saudi Arabia. Energies, 2021, 14, 7069.	3.1	25
30	Parameter Estimation of Static/Dynamic Photovoltaic Models Using a Developed Version of Eagle Strategy Gradient-Based Optimizer. Sustainability, 2021, 13, 13053.	3.2	19
31	Integration of DPMUs with the Distribution Network at Portion Nodes for Voltage Control. , 2021, , .		0
32	An Intelligent Data-Driven Model to Secure Intravehicle Communications Based on Machine Learning. IEEE Transactions on Industrial Electronics, 2020, 67, 5112-5119.	7.9	43
33	PV Characteristics, Performance and Modelling. Green Energy and Technology, 2020, , 31-63.	0.6	6
34	Maximum Power Extraction from the Photovoltaic System Under Partial Shading Conditions. Green Energy and Technology, 2020, , 107-129.	0.6	17
35	Adaptive static synchronous compensation techniques with the transmission system for optimum voltage control. Ain Shams Engineering Journal, 2020, 11, 35-44.	6.1	10
36	Photovoltaic maximum power point tracking under dynamic partial shading changes by novel adaptive particle swarm optimization strategy. Transactions of the Institute of Measurement and Control, 2020, 42, 104-115.	1.7	31

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37	An insight to the energy policy of GCC countries to meet renewable energy targets of 2030. Energy Policy, 2020, 147, 111864.	8.8	46
38	A Sensorless Wind Speed and Rotor Position Control of PMSG in Wind Power Generation Systems. Sustainability, 2020, 12, 8481.	3.2	10
39	A novel severity performance index for optimal allocation and sizing of photovoltaic distributed generations. Energy Reports, 2020, 6, 2180-2190.	5.1	16
40	Performance of Communication Network for Monitoring Utility Scale Photovoltaic Power Plants. Energies, 2020, 13, 5527.	3.1	7
41	A novel scanning bat algorithm strategy for maximum power point tracker of partially shaded photovoltaic energy systems. Ain Shams Engineering Journal, 2020, 11, 1093-1103.	6.1	38
42	Sensorless Active and Reactive Control for DFIG Wind Turbines Using Opposition-Based Learning Technique. Sustainability, 2020, 12, 3583.	3.2	23
43	Condition Monitoring of DC-Link Electrolytic Capacitors in PWM Power Converters Using OBL Method. Sustainability, 2020, 12, 3719.	3.2	12
44	Performance Improvement of PV Systemsâ€™ Maximum Power Point Tracker Based on a Scanning PSO Particle Strategy. Sustainability, 2020, 12, 1185.	3.2	50
45	Wireless Network Architecture for Cyber Physical Wind Energy System. IEEE Access, 2020, 8, 40180-40197.	4.2	25
46	Dynamic Control of a DFIG Wind Power Generation System to Mitigate Unbalanced Grid Voltage. IEEE Access, 2020, 8, 39091-39103.	4.2	29
47	Simulation and experimental validation of fast adaptive particle swarm optimization strategy for photovoltaic global peak tracker under dynamic partial shading. Renewable and Sustainable Energy Reviews, 2020, 124, 109719.	16.4	61
48	A Novel Crow Search Algorithm Auto-Drive PSO for Optimal Allocation and Sizing of Renewable Distributed Generation. IEEE Access, 2020, 8, 27807-27820.	4.2	64
49	A Novel Bat Algorithm Strategy for Maximum Power Point Tracker of Photovoltaic Energy Systems Under Dynamic Partial Shading. IEEE Access, 2020, 8, 10048-10060.	4.2	84
50	Power Quality and Reliability Considerations of Photovoltaic Distributed Generation. Technology and Economics of Smart Grids and Sustainable Energy, 2020, 5, 1.	2.6	17
51	Recent developments of MPPT techniques for PV systems under partial shading conditions: a critical review and performance evaluation. IET Renewable Power Generation, 2020, 14, 3401-3417.	3.1	46
52	Current controller design for DFIGâ€•based wind turbines using state feedback control. IET Renewable Power Generation, 2019, 13, 1938-1948.	3.1	30
53	Design of State Feedback Current Controller for Fast Synchronization of DFIG in Wind Power Generation Systems. Energies, 2019, 12, 2427.	3.1	25
54	Interleaved boost converter for global maximum power extraction from the photovoltaic system under partial shading. IET Renewable Power Generation, 2019, 13, 1232-1238.	3.1	34

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55	Dynamic global power extraction from partially shaded photovoltaic using deep recurrent neural network and improved PSO techniques. International Transactions on Electrical Energy Systems, 2019, 29, e12061.	1.9	23
56	Grade point average assessment for metaheuristic GMPP techniques of partial shaded PV systems. IET Renewable Power Generation, 2019, 13, 1215-1231.	3.1	35
57	Impact of PSO Reinitialization on the Accuracy of Dynamic Global Maximum Power Detection of Variant Partially Shaded PV Systems. Sustainability, 2019, 11, 2091.	3.2	43
58	Dynamic global maximum power point tracking of the PV systems under variant partial shading using hybrid GWO-FLC. Solar Energy, 2019, 177, 306-316.	6.1	163
59	A novel framework-based cuckoo search algorithm for sizing and optimization of grid-independent hybrid renewable energy systems. International Journal of Green Energy, 2019, 16, 86-100.	3.8	60
60	Performance of MPPT Techniques of Photovoltaic Systems Under Normal and Partial Shading Conditions. , 2018, , 115-161.		23
61	Harmonic injection scheme for harmonic reduction of three€phase controlled converters. IET Power Electronics, 2018, 11, 110-119.	2.1	8
62	Modeling of distance protection logic for out-of-step condition in power system. Electrical Engineering, 2018, 100, 1891-1899.	2.0	5
63	Enhancement of Power System Quality Using PI Control Technique with DVR for Mitigation Voltage Sag. , 2018, , .		4
64	Maximum Power Extraction from a Partially Shaded PV System Using an Interleaved Boost Converter. Energies, 2018, 11, 2543.	3.1	44
65	A novel evaluation index for the photovoltaic maximum power point tracker techniques. Solar Energy, 2018, 174, 940-956.	6.1	69
66	Hybrid PSO-FLC for dynamic global peak extraction of the partially shaded photovoltaic system. PLoS ONE, 2018, 13, e0206171.	2.5	45
67	Nested multi-objective PSO for optimal allocation and sizing of renewable energy distributed generation. Journal of Renewable and Sustainable Energy, 2018, 10, .	2.0	22
68	Optimal Sizing and Designing of Hybrid Renewable Energy Systems in Smart Grid Applications. , 2018, , 231-313.		31
69	Modeling and Simulation of Smart Grid Integrated with Hybrid Renewable Energy Systems. Studies in Systems, Decision and Control, 2018, , .	1.0	16
70	Modeling of Hybrid Renewable Energy System. Studies in Systems, Decision and Control, 2018, , 11-21.	1.0	8
71	Sizing and Techno-Economic Analysis of Stand-Alone Hybrid Photovoltaic/Wind/Diesel/Battery Energy Systems. Studies in Systems, Decision and Control, 2018, , 23-38.	1.0	2
72	Swarm intelligence-based optimization of grid-dependent hybrid renewable energy systems. Renewable and Sustainable Energy Reviews, 2017, 77, 515-524.	16.4	89

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73	Load management as a smart grid concept for sizing and designing of hybrid renewable energy systems. Engineering Optimization, 2017, 49, 1813-1828.	2.6	51
74	A Novel Self-Power SSHI Circuit for Piezoelectric Energy Harvester. IEEE Transactions on Power Electronics, 2017, 32, 7663-7673.	7.9	85
75	A novel current injection device for harmonic reduction of three-phase controlled converters in renewable energy utility interfacing. Journal of Renewable and Sustainable Energy, 2017, 9, 045504.	2.0	0
76	Optimal Power Flow Using Particle Swarm Optimization of Renewable Hybrid Distributed Generation. Energies, 2017, 10, 1013.	3.1	61
77	Efficient current injection device for harmonic reduction of three€phase controlled converters. IET Circuits, Devices and Systems, 2017, 11, 648-655.	1.4	1
78	Techno-Economical Study of Using Nuclear Power Plants for Supporting Electrical Grid in Arabian Gulf. Technology and Economics of Smart Grids and Sustainable Energy, 2017, 2, 1.	2.6	12
79	Maximum power extraction from grid-connected PV system. , 2017, , .		8
80	PSO-Based Smart Grid Application for Sizing and Optimization of Hybrid Renewable Energy Systems. PLoS ONE, 2016, 11, e0159702.	2.5	101
81	Optimal configuration for isolated hybrid renewable energy systems. Journal of Renewable and Sustainable Energy, 2016, 8, .	2.0	28
82	A novel smart grid theory for optimal sizing of hybrid renewable energy systems. Solar Energy, 2016, 124, 26-38.	6.1	91
83	Fuzzy logic based speed control of indirect field oriented controlled Double Star Induction Motors connected in parallel to a single six-phase inverter supply. Electric Power Systems Research, 2016, 134, 126-133.	3.6	42
84	A novel software for design and optimization of hybrid power systems. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 1299-1315.	1.6	28
85	Sizing and techno-economic analysis of stand-alone hybrid photovoltaic/wind/diesel/battery power generation systems. Journal of Renewable and Sustainable Energy, 2015, 7, .	2.0	67
86	Smart maximum power extraction for wind energy systems. , 2015, , .		7
87	A smart technique for optimization and simulation of hybrid photovoltaic/wind/diesel/battery energy systems. , 2015, , .		12
88	Performance of smart maximum power point tracker under partial shading conditions of photovoltaic systems. Journal of Renewable and Sustainable Energy, 2015, 7, .	2.0	45
89	Energy management and renewable energy integration in smart grid system. , 2015, , .		30
90	Performance of smart maximum power point tracker under partial shading conditions of PV systems. , 2015, , .		11

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91	A comprehensive comparison of different MPPT techniques for photovoltaic systems. Solar Energy, 2015, 112, 1-11.	6.1	342
92	A Novel Design and Optimization Software for Autonomous PV/Wind/Battery Hybrid Power Systems. Mathematical Problems in Engineering, 2014, 2014, 1-16.	1.1	50
93	Economic Modeling of Hybrid Renewable Energy System: A Case Study in Saudi Arabia. Arabian Journal for Science and Engineering, 2014, 39, 3827-3839.	1.1	39
94	Pairing between Sites and Wind Turbines for Saudi Arabia Sites. Arabian Journal for Science and Engineering, 2014, 39, 6225-6233.	1.1	12
95	Design and implementation of wind energy system in Saudi Arabia. Renewable Energy, 2013, 60, 42-52.	8.9	43
96	Maximum power extraction from wind energy system based on fuzzy logic control. Electric Power Systems Research, 2013, 97, 144-150.	3.6	142
97	Comparative study of economic viability of rural electrification using renewable energy resources versus diesel generator option in Saudi Arabia. Journal of Renewable and Sustainable Energy, 2013, 5, .	2.0	21
98	New software for hybrid renewable energy assessment for ten locations in Saudi Arabia. Journal of Renewable and Sustainable Energy, 2013, 5, .	2.0	24
99	Fuzzy logic control of wind energy conversion system. Journal of Renewable and Sustainable Energy, 2013, 5, .	2.0	28
100	Design and Simulation of Wind Energy System in Saudi Arabia. , 2013, , .		5
101	Wind energy assessment for five locations in Saudi Arabia. Journal of Renewable and Sustainable Energy, 2012, 4, 022702.	2.0	17
102	A novel harmonic reduction technique for controlled converter by third harmonic current injection. , 2012, , .		0
103	A novel harmonic reduction technique for controlled converter by third harmonic current injection. , 2012, , .		1
104	A novel harmonic reduction technique for controlled converter by third harmonic current injection. Electric Power Systems Research, 2012, 91, 104-112.	3.6	11
105	Novel Third Harmonic Current Injection Technique for Harmonic Reduction of Controlled Converters. Journal of Power Electronics, 2012, 12, 925-934.	1.5	13
106	Criteria for comparison of energy efficient lamps. , 2011, , .		0
107	Power quality considerations of heavy loads of CFL on distribution system. , 2011, , .		3
108	A novel digital implementation of AC voltage controller for speed control of induction motor. International Journal of Power and Energy Conversion, 2010, 2, 78.	0.3	6

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109	Digital implementation of general purpose fuzzy logic controller for photovoltaic maximum power point tracker. , 2010, , .		28
110	Criteria for comparison of energy efficient lamps. , 2010, , .		1
111	Fuzzy controller for three phases induction motor drives. , 2010, , .		21
112	Fuzzy controller for three phases induction motor drives. , 2010, , .		9
113	Modified DFIG control strategy for wind energy applications. , 2010, , .		12
114	Digital implementation of harmonics reduction of three-phase boost rectifier. , 2010, , .		1
115	A Novel Control Of AC Voltage Controller Under Induction Motor Load. , 2009, , .		0
116	A Modified Harmonics Reduction Technique for a Three-Phase Controlled Converter. IEEE Transactions on Industrial Electronics, 2008, 55, 1190-1197.	7.9	24
117	Performance evaluation of three-phase induction motor under different ac voltage control strategies’ Part II’. , 2007, , .		2
118	Performance evaluation of three-phase induction motor under different ac voltage control strategies’ Part I’. , 2007, , .		5
119	Modeling of Wind Turbine Driving Permanent Magnet Generator with Maximum Power Point Tracking System. Journal of King Saud University, Engineering Sciences, 2007, 19, 223-236.	2.0	40
120	Harmonics reduction of three-phase boost rectifier by modulating duty ratio. Electric Power Systems Research, 2007, 77, 1425-1431.	3.6	11
121	Low cost PWM converter for utility interface of variable speed wind turbine generators. , 1999, , .		14
122	New formula to determine the minimum capacitance required for self-excited induction generator. , 0, , .		27
123	Economic Modeling of Site-Specific Optimum Wind Turbine for Electrification Studies. Advanced Materials Research, 0, 347-353, 1973-1986.	0.3	2
124	Optimum Wind Turbine Site Matching for Three Locations in Saudi Arabia. Advanced Materials Research, 0, 347-353, 2130-2139.	0.3	6
125	A novel PSO strategy for improving dynamic change partial shading photovoltaic maximum power point tracker. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-15.	2.3	36
126	Design and economic assessment of an autonomous flexible wind energy system powering a large capacity water desalination plant. , 0, 228, 47-62.		2