Mohamed M F Darwish

List of Publications by Year
in descending order

48	2,058	159525	276775
papers	citations	30	41
		h-index	g-index

48	48	48	971
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Efficient Fuzzy-Logic Based Variable-Step Incremental Conductance MPPT Method for Grid-Connected PV Systems. IEEE Access, 2021, 9, 26420-26430.	2.6	116
2	Deep Learning-Based Industry 4.0 and Internet of Things towards Effective Energy Management for Smart Buildings. Sensors, 2021, 21, 1038.	2.1	103
3	Effective IoT-based deep learning platform for online fault diagnosis of power transformers against cyberattacks and data uncertainties. Measurement: Journal of the International Measurement Confederation, 2022, 190, 110686.	2.5	101
4	Promising MPPT Methods Combining Metaheuristic, Fuzzy-Logic and ANN Techniques for Grid-Connected Photovoltaic. Sensors, 2021, 21, 1244.	2.1	94
5	Experimental Setup for Online Fault Diagnosis of Induction Machines via Promising IoT and Machine Learning: Towards Industry 4.0 Empowerment. IEEE Access, 2021, 9, 115429-115441.	2.6	79
6	Robust Design of ANFIS-Based Blade Pitch Controller for Wind Energy Conversion Systems Against Wind Speed Fluctuations. IEEE Access, 2021, 9, 37894-37904.	2.6	77
7	Reliable Industry 4.0 Based on Machine Learning and IoT for Analyzing, Monitoring, and Securing Smart Meters. Sensors, 2021, 21, 487.	2.1	74
8	Towards Secured Online Monitoring for Digitalized GIS Against Cyber-Attacks Based on IoT and Machine Learning. IEEE Access, 2021, 9, 78415-78427.	2.6	69
9	An Improved Neural Network Algorithm to Efficiently Track Various Trajectories of Robot Manipulator Arms. IEEE Access, 2021, 9, 11911-11920.	2.6	68
10	Reliable Deep Learning and IoT-Based Monitoring System for Secure Computer Numerical Control Machines Against Cyber-Attacks With Experimental Verification. IEEE Access, 2022, 10, 23186-23197.	2.6	67
11	Optimal Harmonic Mitigation in Distribution Systems with Inverter Based Distributed Generation. Applied Sciences (Switzerland), 2021, 11, 774.	1.3	65
12	Enhancing Diagnostic Accuracy of Transformer Faults Using Teaching-Learning-Based Optimization. IEEE Access, 2021, 9, 30817-30832.	2.6	58
13	Estimating Parameters of Photovoltaic Models Using Accurate Turbulent Flow of Water Optimizer. Processes, 2021, 9, 627.	1.3	54
14	Novel Control Strategy for Enhancing Microgrid Operation Connected to Photovoltaic Generation and Energy Storage Systems. Electronics (Switzerland), 2021, 10, 1261.	1.8	53
15	Comprehensive Review on Renewable Energy Sources in Egypt—Current Status, Grid Codes and Future Vision. IEEE Access, 2022, 10, 4081-4101.	2.6	52
16	Optimal Estimation of Proton Exchange Membrane Fuel Cells Parameter Based on Coyote Optimization Algorithm. Applied Sciences (Switzerland), 2021, 11, 2052.	1.3	48
17	Towards Precise Interpretation of Oil Transformers via Novel Combined Techniques Based on DGA and Partial Discharge Sensors. Sensors, 2021, 21, 2223.	2.1	47
18	Assessment of an Improved Three-Diode against Modified Two-Diode Patterns of MCS Solar Cells Associated with Soft Parameter Estimation Paradigms. Applied Sciences (Switzerland), 2021, 11, 1055.	1.3	47

#	Article	IF	Citations
19	Proposed ANFIS Based Approach for Fault Tracking, Detection, Clearing and Rearrangement for Photovoltaic System. Sensors, 2021, 21, 2269.	2.1	46
20	Effective Nonlinear Model Predictive Control Scheme Tuned by Improved NN for Robotic Manipulators. IEEE Access, 2021, 9, 64278-64290.	2.6	45
21	Recent Advances in Polymer Nanocomposites Based on Polyethylene and Polyvinylchloride for Power Cables. Materials, 2021, 14, 66.	1.3	43
22	Multiple enhancement of PVC cable insulation using functionalized SiO 2 nanoparticles based nanocomposites. Electric Power Systems Research, 2018, 163, 612-625.	2.1	41
23	Photoluminescence Spectroscopy Measurements for Effective Condition Assessment of Transformer Insulating Oil. Processes, 2021, 9, 732.	1.3	41
24	An Effective Bi-Stage Method for Renewable Energy Sources Integration into Unbalanced Distribution Systems Considering Uncertainty. Processes, 2021, 9, 471.	1.3	40
25	Enhancement of dielectric and mechanical properties of Polyvinyl Chloride nanocomposites using functionalized TiO_2 nanoparticles. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3490-3499.	1.8	39
26	Reliable Estimation for Health Index of Transformer Oil Based on Novel Combined Predictive Maintenance Techniques. IEEE Access, 2022, 10, 25954-25972.	2.6	39
27	Adaptive LFC Incorporating Modified Virtual Rotor to Regulate Frequency and Tie-Line Power Flow in Multi-Area Microgrids. IEEE Access, 2022, 10, 33248-33268.	2.6	38
28	PVC nanocomposites for cable insulation with enhanced dielectric properties, partial discharge resistance and mechanical performance. High Voltage, 2020, 5, 463-471.	2.7	37
29	An optimal network constraint-based joint expansion planning model for modern distribution networks with multi-types intermittent RERs. Renewable Energy, 2022, 194, 137-151.	4.3	37
30	Development of industrial scale PVC nanocomposites with comprehensive enhancement in dielectric properties. IET Science, Measurement and Technology, 2019, 13, 90-96.	0.9	36
31	Resilient Design of Robust Multi-Objectives PID Controllers for Automatic Voltage Regulators: D-Decomposition Approach. IEEE Access, 2021, 9, 106589-106605.	2.6	33
32	Fast Corona Discharge Assessment Using FDM integrated With Full Multigrid Method in HVDC Transmission Lines Considering Wind Impact. IEEE Access, 2020, 8, 225872-225883.	2.6	32
33	Numerical and Experimental Analysis of the Transient Behavior of Wind Turbines When Two Blades are Simultaneously Struck by Lightning. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	30
34	Mitigation of induced voltages and AC corrosion effects on buried gas pipeline near to OHTL under normal and fault conditions. Electric Power Systems Research, 2015, 127, 297-306.	2.1	28
35	Reliable and Robust Observer for Simultaneously Estimating State-of-Charge and State-of-Health of LiFePO4 Batteries. Applied Sciences (Switzerland), 2021, 11, 3609.	1.3	27
36	Effective Transmission Congestion Management via Optimal DG Capacity Using Hybrid Swarm Optimization for Contemporary Power System Operations. IEEE Access, 2022, 10, 71091-71106.	2.6	27

#	Article	IF	Citations
37	Accurate Insulating Oil Breakdown Voltage Model Associated with Different Barrier Effects. Processes, 2021, 9, 657.	1.3	25
38	Experimental measurements of partial discharge activity within LDPE/TiO2 nanocomposites. , 2017, , .		18
39	Measurement and assessment of corona current density for HVDC bundle conductors by FDM integrated with full multigrid technique. Electric Power Systems Research, 2021, 199, 107370.	2.1	15
40	Effect of functionalized TiO<inf>2</inf> nanoparticles on dielectric properties of PVC nanocomposites used in electrical insulating cables. , 2016, , .		14
41	Impact of Nanoparticles Functionalization on Partial Discharge Activity within PVC/SiO2 Nanocomposites. , 2018, , .		12
42	Pollution Severity Monitoring of High Voltage Transmission Line Insulators Using Wireless Device Based on Leakage Current Bursts. IEEE Access, 2022, 10, 53713-53723.	2.6	12
43	Novel accurate modeling of dust loaded wire-duct precipitators using FDM-FMG method on one fine computational domains. Electric Power Systems Research, 2022, 203, 107634.	2.1	8
44	Robust PID-PSS Design for Stability Improvment of Grid-Tied HydroTurbine Generator. , 2021, , .		8
45	Mitigation of the Electric and Magnetic Fields of 500-kV Overhead Transmission Lines. IEEE Access, 2022, 10, 33900-33908.	2.6	6
46	Impact of Nanoparticles Functionalization on Partial Discharge Activity within PVC/SiO<inf>2</inf> Nanocomposites. , 2018, , .		4
47	Dielectric Response of PVC and LDPE Nanocomposites Upon Functionalization of Their Containing Nanoparticles. , 2018, , .		3
48	Influence of Fault Locations on the Pipeline Induced Voltages Near to Power Transmission Lines. , 2019, , .		2