Shady S Refaat

List of Publications by Year
in descending order

119 papers	1,895 citations	361413 20 h-index	361022 35 g-index
127 all docs	127 docs citations	127 times ranked	1111 citing authors

#	Article	IF	Citations
1	Cascading Failure Vulnerability Analysis in Interdependent Power Communication Networks. IEEE Systems Journal, 2022, 16, 3500-3511.	4.6	3
2	Characteristic Study of Solar Photovoltaic Array Under Different Partial Shading Conditions. IEEE Access, 2022, 10, 6856-6866.	4.2	27
3	Cable Insulation Fault Identification Using Partial Discharge Patterns Analysis. Canadian Journal of Electrical and Computer Engineering, 2022, 45, 31-41.	2.0	6
4	Hybrid fuzzy sliding mode for stick-slip suppression in drill string systems. Journal of Mechanical Science and Technology, 2022, 36, 1089-1102.	1.5	6
5	New algorithm based active method to eliminate stick-slip vibrations in drill string systems. Systems Science and Control Engineering, 2022, 10, 468-487.	3.1	0
6	A Coplanar Waveguide Based Antenna for Partial Discharge Detection in Gas-insulated Switchgear. , 2022, , .		0
7	Characterization of Defects Inside the Cable Dielectric With Partial Discharge Modeling. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	15
8	A novel stacked generalization ensemble-based hybrid LGBM-XGB-MLP model for Short-Term Load Forecasting. Energy, 2021, 214, 118874.	8.8	179
9	Smart Grid Big Data Analytics: Survey of Technologies, Techniques, and Applications. IEEE Access, 2021, 9, 59564-59585.	4.2	67
10	Household-Level Energy Forecasting in Smart Buildings Using a Novel Hybrid Deep Learning Model. IEEE Access, 2021, 9, 33498-33511.	4.2	50
11	Deep Learning in Smart Grid Technology: A Review of Recent Advancements and Future Prospects. IEEE Access, 2021, 9, 54558-54578.	4.2	79
12	Big Data Management in Smart Grids: Technologies and Challenges. IEEE Access, 2021, 9, 73046-73059.	4.2	20
13	Accurate Smart-Grid Stability Forecasting Based on Deep Learning: Point and Interval Estimation Method. , 2021, , .		12
14	An Effective Ensemble Learning approach-Based Grid Stability Assessment and Classification. , 2021, , .		10
15	Improvement in Three-Dimension al Finite Element Modeling for High Voltage Power Transformer in Time Domain. , 2021, , .		0
16	An Effective Sliding Mode PWM Control for The PUC5 Inverter. , 2021, , .		0
17	Enhanced Random Forest Model for Robust Short-Term Photovoltaic Power Forecasting Using Weather Measurements. Energies, 2021, 14, 3992.	3.1	13
18	Design and Hardware in-the-Loop Validation of an Effective Super-Twisting Controller for Stick-Slip Suppression in Drill-String Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, 143, .	1.6	7

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19	Current sensor optimization based on simulated transfer function under partial discharge pulses. Sensors and Actuators A: Physical, 2021, 329, 112825.	4.1	7
20	Enhancement of Frequency Control for Stand-Alone Multi-Microgrids. IEEE Access, 2021, 9, 79128-79142.	4.2	40
21	Distributed Tree-Based Machine Learning for Short-Term Load Forecasting With Apache Spark. IEEE Access, 2021, 9, 57372-57384.	4.2	7
22	Overview and Partial Discharge Analysis of Power Transformers: A Literature Review. IEEE Access, 2021, 9, 64587-64605.	4.2	76
23	An Effective Hybrid NARX-LSTM Model for Point and Interval PV Power Forecasting. IEEE Access, 2021, 9, 36571-36588.	4.2	66
24	A Multiprocessing-Based Sensitivity Analysis of Machine Learning Algorithms for Load Forecasting of Electric Power Distribution System. IEEE Access, 2021, 9, 31684-31694.	4.2	28
25	Fractional-order controllers for stick-slip vibration mitigation in oil well drill-strings. Journal of Low Frequency Noise Vibration and Active Control, 2021, 40, 1571-1584.	2.9	5
26	Deep Learning-Based Short-Term Load Forecasting Approach in Smart Grid With Clustering and Consumption Pattern Recognition. IEEE Access, 2021, 9, 54992-55008.	4.2	42
27	Convergence of Photovoltaic Power Forecasting and Deep Learning: State-of-Art Review. IEEE Access, 2021, 9, 136593-136615.	4.2	37
28	Inception and Propagation of Electrical Trees in the Presence of Space Charge in HVAC Extruded Cables. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1775-1784.	2.9	12
29	PD Signal Attenuation in 550-kV GIS: Impact of Different Barriers on the Propagation of Electromagnetic Waves. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	4
30	A Robust Grid-Tied PV System based Super-Twisting Integral Sliding Mode Control. , 2021, , .		3
31	Locational Marginal Electricity Price Forecasting-Based Self-Attention Mechanism and Simulated Annealing Optimizer using Big Data. , 2021, , .		0
32	A Computational Model for Aging Dependability in Polymeric Cable Insulation. , 2021, , .		0
33	Enhanced Deep Belief Network Based on Ensemble Learning and Tree-Structured of Parzen Estimators: An Optimal Photovoltaic Power Forecasting Method. IEEE Access, 2021, 9, 150330-150344.	4.2	21
34	Investigation on Optimizing Cost Function to Penalize Underestimation of Load Demand through Deep Learning Modeling. , 2021, , .		0
35	On the Impact of Control Center Allocation on Power-Communication Network Vulnerability. , 2021, , .		0
36	Incipient Stator Winding Turn Faults Detection in Induction Motor. , 2021, , .		2

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37	The Impact of Thermal Stresses on Volume Resistivity: Performance Comparison between TR-XLPE and XLPE Cables. , 2021, , .		0
38	Impact of Dimensionality Reduction Techniques on the Classification of Ceramic Insulators Defects. , 2021, , .		1
39	Electrical Tree Growth Behavior Under AC and DC High Voltage in Power Cables. , 2021, , .		1
40	Modeling and Evaluation of Electric Treeing Phenomena in Polymeric Cable Insulation. , 2021, , .		0
41	Power Industrial Electronics and Informatics for Humans [Students and Young Professionals News]. IEEE Industrial Electronics Magazine, 2020, 14, 83-95.	2.6	0
42	Privacy Preservation of Data-Driven Models in Smart Grids Using Homomorphic Encryption. Information (Switzerland), 2020, 11, 357.	2.9	14
43	Ensemble-Based Spam Detection in Smart Home IoT Devices Time Series Data Using Machine Learning Techniques. Information (Switzerland), 2020, 11, 344.	2.9	28
44	Stochastic Geometry Model for Interdependent Cyber-Physical Communication-Power Networks. , 2020, , .		6
45	Short-term Power Forecasting Model Based on Dimensionality Reduction and Deep Learning Techniques for Smart Grid. , 2020, , .		8
46	UHF Partial Discharge Localization in Gas-Insulated Switchgears: Gradient Boosting Based Approach. , 2020, , .		9
47	Partial Discharge Modeling of Internal Discharge in Electrical Machine Stator Winding. , 2020, , .		4
48	Dielectric Performance of Magneto-Nanofluids for Advancing Oil-Immersed Power Transformer. IEEE Access, 2020, 8, 163316-163328.	4.2	26
49	Interval-Valued Features Based Machine Learning Technique for Fault Detection and Diagnosis of Uncertain HVAC Systems. IEEE Access, 2020, 8, 171892-171902.	4.2	15
50	A Hybrid Bayesian Ridge Regression-CWT-Catboost Model For PV Power Forecasting. , 2020, , .		23
51	Short-Term Electric Load Forecasting Based on Data-Driven Deep Learning Techniques. , 2020, , .		12
52	A Robust Second-Order Sliding Mode Control of Sensorless Five Level Packed U Cell Inverter. , 2020, , .		4
53	PLS-CNN-BiLSTM: An End-to-End Algorithm-Based Savitzkyâ€"Golay Smoothing and Evolution Strategy for Load Forecasting. Energies, 2020, 13, 5464.	3.1	34
54	Selective Harmonic Elimination PWM For a Cascaded Multi-level Inverter. , 2020, , .		3

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55	PD Signal Propagation in GIS: Ultra-High Frequency Detection-Based Modeling. IEEE Sensors Journal, 2020, 20, 9417-9426.	4.7	13
56	Artificial Intelligence-Based Weighting Factor Autotuning for Model Predictive Control of Grid-Tied Packed U-Cell Inverter. Energies, 2020, 13, 3107.	3.1	22
57	Performance Evaluation of Distributed Machine Learning for Load Forecasting in Smart Grids. , 2020, , .		16
58	Distributed Computing for Smart Meter Data Management for Electrical Utility Applications. , 2020, , .		5
59	Multivariate Features Extraction and Effective Decision Making Using Machine Learning Approaches. Energies, 2020, 13, 609.	3.1	14
60	Detection of Energy Theft in Smart Grids using Electricity Consumption Patterns. , 2020, , .		7
61	Performance Evaluation of Tree-based Models for Big Data Load Forecasting using Randomized Hyperparameter Tuning. , 2020, , .		7
62	Partial Discharge Signal Propagation in Three-Phase Gas-Insulated Switchgear: CIGRE Recommendations-Based Analysis. , 2020, , .		0
63	An Effective Super-Twisting Control of a Standalone PUC5 Inverter. , 2020, , .		0
64	Real-Time Digital Simulation for Sensorless Control Scheme based on Reduced-Order Sliding Mode Observer for Dual Star Induction Motor. , 2020, , .		2
65	A Comparative Study of Active Control Methods for Mitigation of Torsional Stick-Slip Vibrations in Drillstring Systems. , 2020, , .		0
66	Smart management system for improving the reliability and availability of substations in smart grid with distributed generation. Journal of Engineering, 2019, 2019, 4236-4240.	1.1	3
67	Partial discharge detection and diagnosis in gas insulated switchgear: State of the art. IEEE Electrical Insulation Magazine, 2019, 35, 16-33.	0.8	98
68	AC Microgrid Control and Management Strategies: Evaluation and Review. IEEE Power Electronics Magazine, 2019, 6, 18-31.	0.7	101
69	On the Electromagnetic Wave Behavior Due to Partial Discharge in Gas Insulated Switchgears: State-of-Art Review. IEEE Access, 2019, 7, 75822-75836.	4.2	36
70	Enhanced Machine Learning Approaches for Diagnosing Building Systems. , 2019, , .		0
71	The Impact of Water Trees and Cavities on the Electric Field Distribution in XLPE Power Cables. , 2019, , .		2
72	Performance Evaluation of Deep Recurrent Neural Networks Architectures: Application to PV Power Forecasting. , 2019, , .		18

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73	A Novel Methodology to Determine the Maximum PV Penetration in Distribution Networks. , 2019, , .		3
74	Model Predictive Control of a 9- Level Packed U-Cells based Grid-Connected PV System. , 2019, , .		5
75	Dielectric Behaviour of Defects in Power Transformer Insulation using Finite Element Method. , 2019, , .		4
76	Average Model based Effective Control Approach for a Grid-Connected PV PUC5 Inverter. , 2019, , .		0
77	Partial Discharge Inception Voltage Measurement for an Artificially Created Void Inside the Solid Dielectric. , 2019, , .		1
78	Partial Discharge Signal Propagation in T-Structured GIS. , 2019, , .		2
79	Averaging Ensembles Model for Forecasting of Short-term Load in Smart Grids. , 2019, , .		11
80	Faulted Line Identification and Localization in Power System using Machine Learning Techniques. , 2019, , .		6
81	A Computational Model for Pre-breakdown in Gas Insulated Switchgear. , 2019, , .		0
82	Investigation of Void Size and Location on Partial Discharge Activity in High Voltage XLPE Cable Insulation. , 2019, , .		8
83	A Review on Big Data Management and Decision-Making in Smart Grid. Power Electronics and Drives, 2019, 4, 1-13.	0.9	14
84	Impact of grid‑tied large‑scale photovoltaic system on dynamic voltage stability of electric power grids. IET Renewable Power Generation, 2018, 12, 157-164.	3.1	51
85	ANN based prognostication of the PV panel output power under various environmental conditions. , 2018, , .		2
86	A Review of Partial Discharge Detection Techniques in Power Transformers. , 2018, , .		7
87	Real-Time Implementation of High Performance Control Scheme for Grid-Tied PV System for Power Quality Enhancement Based on MPPC-SVM Optimized by PSO Algorithm. Energies, 2018, 11, 3516.	3.1	16
88	Transient analysis and simulation of a grid-integrated large-scale photovoltaic (PV) energy system. QScience Connect, 2018, 2017, .	0.3	4
89	Robust sliding mode control for three-phase rectifier supplied by non-ideal voltage. Control Engineering Practice, 2018, 77, 73-85.	5.5	9
90	Model predictive control of packed U cells based transformerless single-phase dynamic voltage restorer. , 2018, , .		16

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91	Reliability evaluation of smart grid system with large penetration of distributed energy resources. , 2018, , .		13
92	A Noval Self Healing Control System for Next Generation Electric Grid with Big Data Platform. , 2018, , .		0
93	Model predictive control with non-linear feedback for permanent magnet synchronous motor drives. , 2018, , .		1
94	Self-Healing control strategy; Challenges and opportunities for distribution systems in smart grid. , 2018, , .		10
95	A review of partial discharge detection, diagnosis techniques in high voltage power cables. , 2018, , .		38
96	Detection and prediction of faults in photovoltaic arrays: A review. , 2018, , .		61
97	Investigation into the effect of unbalanced supply voltage on detection of stator winding turn fault in PMSM. , 2017, , .		6
98	Transient stability impact of large-scale photovoltaic system on electric power grids. , 2017, , .		4
99	Smart and energy efficient air-conditioning system. , 2017, , .		2
100	Big data impact on stability and reliability improvement of smart grid. , 2017, , .		9
101	Dynamic Voltage Stability Impact of Large-Scale Photovoltaic System on Electric Power Grids. , 2016, , .		2
102	Big data, better energy management and control decisions for distribution systems in smart grid. , 2016, , .		13
103	Multi-objective model predictive control for grid-tied 15-level packed U cells inverter. , 2016, , .		8
104	A novel smart energy management system in sports stadiums. , 2016, , .		1
105	Transient analysis and simulation of large-scale photovoltaic (PV) energy system integration into the distribution grid. Qscience Proceedings, 2016, 2016, 29.	0.0	0
106	Impact of Integrating Large-Capacity Hybrid Renewable Energy Systems into Qatar's Power Grid. , 2016, , .		0
107	ANN-based diagnosis of incipient stator winding turn faults for three-phase induction motors in the presence of unbalanced supply voltage. , 2015, , .		8
108	Implementation of smart residential energy management system for smart grid. , 2015, , .		12

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109	ANN-based system for inter-turn stator winding fault tolerant DTC for induction motor drives. , 2015, , .		14
110	Residential load management system for future smart energy environment in GCC countries. , 2015, , .		2
111	Open and closed-loop motor control system with incipient broken rotor bar fault detection using current signature. , 2014, , .		5
112	Detection and discrimination between unbalanced supply and phase loss in PMSM using ANN-based protection scheme. , 2013, , .		5
113	Fault Tolerance of Stator Turn Fault for Three Phase Induction Motors Star-Connected Using Artificial Neural Network. , 2013, , .		10
114	Discrimination of stator winding turn fault and unbalanced supply voltage in permanent magnet synchronous motor using ANN. , 2013, , .		10
115	“A new remedial strategy for permanent magnet synchronous motor based on artificial neural network”. , 2013, , .		3
116	ANN-based for detection, diagnosis the bearing fault for three phase induction motors using current signal. , 2013, , .		30
117	Detection, diagnoses and discrimination of stator turn to turn fault and unbalanced supply voltage fault for three phase induction motors. , 2012, , .		18
118	Diagnosis of Stator Turn-to-Turn Fault and Stator Voltage Unbalance Fault Using ANFIS. International Journal of Electrical and Computer Engineering, 2012, 3, .	0.7	8
119	Monitoring and Diagnosis of External Faults in Three Phase Induction Motors Using Artificial Neural Network. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	16