

# Shady S Refaat

## List of Publications by Year in descending order

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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	A novel stacked generalization ensemble-based hybrid LGBM-XGB-MLP model for Short-Term Load Forecasting. Energy, 2021, 214, 118874.	8.8	179
2	AC Microgrid Control and Management Strategies: Evaluation and Review. IEEE Power Electronics Magazine, 2019, 6, 18-31.	0.7	101
3	Partial discharge detection and diagnosis in gas insulated switchgear: State of the art. IEEE Electrical Insulation Magazine, 2019, 35, 16-33.	0.8	98
4	Deep Learning in Smart Grid Technology: A Review of Recent Advancements and Future Prospects. IEEE Access, 2021, 9, 54558-54578.	4.2	79
5	Overview and Partial Discharge Analysis of Power Transformers: A Literature Review. IEEE Access, 2021, 9, 64587-64605.	4.2	76
6	Smart Grid Big Data Analytics: Survey of Technologies, Techniques, and Applications. IEEE Access, 2021, 9, 59564-59585.	4.2	67
7	An Effective Hybrid NARX-LSTM Model for Point and Interval PV Power Forecasting. IEEE Access, 2021, 9, 36571-36588.	4.2	66
8	Detection and prediction of faults in photovoltaic arrays: A review. , 2018, , .		61
9	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
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-Based Short-Term Load Forecasting Approach in Smart Grid With Clustering and Consumption Pattern Recognition. IEEE Access, 2021, 9, 54992-55008.	4.2	42
12	Enhancement of Frequency Control for Stand-Alone Multi-Microgrids. IEEE Access, 2021, 9, 79128-79142.	4.2	40
13	A review of partial discharge detection, diagnosis techniques in high voltage power cables. , 2018, , .		38
14	Convergence of Photovoltaic Power Forecasting and Deep Learning: State-of-Art Review. IEEE Access, 2021, 9, 136593-136615.	4.2	37
15	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
16	PLS-CNN-BiLSTM: An End-to-End Algorithm-Based Savitzky-Golay Smoothing and Evolution Strategy for Load Forecasting. Energies, 2020, 13, 5464.	3.1	34
17	ANN-based for detection, diagnosis the bearing fault for three phase induction motors using current signal. , 2013, , .		30
18	Ensemble-Based Spam Detection in Smart Home IoT Devices Time Series Data Using Machine Learning Techniques. Information (Switzerland), 2020, 11, 344.	2.9	28

#	ARTICLE	IF	CITATIONS
19	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
20	Characteristic Study of Solar Photovoltaic Array Under Different Partial Shading Conditions. IEEE Access, 2022, 10, 6856-6866.	4.2	27
21	Dielectric Performance of Magneto-Nanofluids for Advancing Oil-Immersed Power Transformer. IEEE Access, 2020, 8, 163316-163328.	4.2	26
22	A Hybrid Bayesian Ridge Regression-CWT-Catboost Model For PV Power Forecasting. , 2020, , .		23
23	Artificial Intelligence-Based Weighting Factor Autotuning for Model Predictive Control of Grid-Tied Packed U-Cell Inverter. Energies, 2020, 13, 3107.	3.1	22
24	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
25	Big Data Management in Smart Grids: Technologies and Challenges. IEEE Access, 2021, 9, 73046-73059.	4.2	20
26	Detection, diagnoses and discrimination of stator turn to turn fault and unbalanced supply voltage fault for three phase induction motors. , 2012, , .		18
27	Performance Evaluation of Deep Recurrent Neural Networks Architectures: Application to PV Power Forecasting. , 2019, , .		18
28	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
29	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
30	Model predictive control of packed U cells based transformerless single-phase dynamic voltage restorer. , 2018, , .		16
31	Performance Evaluation of Distributed Machine Learning for Load Forecasting in Smart Grids. , 2020, , .		16
32	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
33	Characterization of Defects Inside the Cable Dielectric With Partial Discharge Modeling. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	15
34	ANN-based system for inter-turn stator winding fault tolerant DTC for induction motor drives. , 2015, , .		14
35	Privacy Preservation of Data-Driven Models in Smart Grids Using Homomorphic Encryption. Information (Switzerland), 2020, 11, 357.	2.9	14
36	A Review on Big Data Management and Decision-Making in Smart Grid. Power Electronics and Drives, 2019, 4, 1-13.	0.9	14

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37	Multivariate Features Extraction and Effective Decision Making Using Machine Learning Approaches. Energies, 2020, 13, 609.	3.1	14
38	Big data, better energy management and control decisions for distribution systems in smart grid. , 2016, , .		13
39	Reliability evaluation of smart grid system with large penetration of distributed energy resources. , 2018, , .		13
40	PD Signal Propagation in GIS: Ultra-High Frequency Detection-Based Modeling. IEEE Sensors Journal, 2020, 20, 9417-9426.	4.7	13
41	Enhanced Random Forest Model for Robust Short-Term Photovoltaic Power Forecasting Using Weather Measurements. Energies, 2021, 14, 3992.	3.1	13
42	Implementation of smart residential energy management system for smart grid. , 2015, , .		12
43	Short-Term Electric Load Forecasting Based on Data-Driven Deep Learning Techniques. , 2020, , .		12
44	Accurate Smart-Grid Stability Forecasting Based on Deep Learning: Point and Interval Estimation Method. , 2021, , .		12
45	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
46	Averaging Ensembles Model for Forecasting of Short-term Load in Smart Grids. , 2019, , .		11
47	Fault Tolerance of Stator Turn Fault for Three Phase Induction Motors Star-Connected Using Artificial Neural Network. , 2013, , .		10
48	Discrimination of stator winding turn fault and unbalanced supply voltage in permanent magnet synchronous motor using ANN. , 2013, , .		10
49	Self-Healing control strategy; Challenges and opportunities for distribution systems in smart grid. , 2018, , .		10
50	An Effective Ensemble Learning approach-Based Grid Stability Assessment and Classification. , 2021, , .		10
51	Big data impact on stability and reliability improvement of smart grid. , 2017, , .		9
52	Robust sliding mode control for three-phase rectifier supplied by non-ideal voltage. Control Engineering Practice, 2018, 77, 73-85.	5.5	9
53	UHF Partial Discharge Localization in Gas-Insulated Switchgears: Gradient Boosting Based Approach. , 2020, , .		9
54	ANN-based diagnosis of incipient stator winding turn faults for three-phase induction motors in the presence of unbalanced supply voltage. , 2015, , .		8

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55	Multi-objective model predictive control for grid-tied 15-level packed U cells inverter. , 2016, , .		8
56	Investigation of Void Size and Location on Partial Discharge Activity in High Voltage XLPE Cable Insulation. , 2019, , .		8
57	Short-term Power Forecasting Model Based on Dimensionality Reduction and Deep Learning Techniques for Smart Grid. , 2020, , .		8
58	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
59	A Review of Partial Discharge Detection Techniques in Power Transformers. , 2018, , .		7
60	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
61	Current sensor optimization based on simulated transfer function under partial discharge pulses. Sensors and Actuators A: Physical, 2021, 329, 112825.	4.1	7
62	Distributed Tree-Based Machine Learning for Short-Term Load Forecasting With Apache Spark. IEEE Access, 2021, 9, 57372-57384.	4.2	7
63	Detection of Energy Theft in Smart Grids using Electricity Consumption Patterns. , 2020, , .		7
64	Performance Evaluation of Tree-based Models for Big Data Load Forecasting using Randomized Hyperparameter Tuning. , 2020, , .		7
65	Investigation into the effect of unbalanced supply voltage on detection of stator winding turn fault in PMSM. , 2017, , .		6
66	Faulted Line Identification and Localization in Power System using Machine Learning Techniques. , 2019, , .		6
67	Stochastic Geometry Model for Interdependent Cyber-Physical Communication-Power Networks. , 2020, , .		6
68	Cable Insulation Fault Identification Using Partial Discharge Patterns Analysis. Canadian Journal of Electrical and Computer Engineering, 2022, 45, 31-41.	2.0	6
69	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
70	Detection and discrimination between unbalanced supply and phase loss in PMSM using ANN-based protection scheme. , 2013, , .		5
71	Open and closed-loop motor control system with incipient broken rotor bar fault detection using current signature. , 2014, , .		5
72	Model Predictive Control of a 9- Level Packed U-Cells based Grid-Connected PV System. , 2019, , .		5

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73	Distributed Computing for Smart Meter Data Management for Electrical Utility Applications. , 2020, , .		5
74	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
75	Transient stability impact of large-scale photovoltaic system on electric power grids. , 2017, , .		4
76	Transient analysis and simulation of a grid-integrated large-scale photovoltaic (PV) energy system. QScience Connect, 2018, 2017, .	0.3	4
77	Dielectric Behaviour of Defects in Power Transformer Insulation using Finite Element Method. , 2019, , .		4
78	Partial Discharge Modeling of Internal Discharge in Electrical Machine Stator Winding. , 2020, , .		4
79	A Robust Second-Order Sliding Mode Control of Sensorless Five Level Packed U Cell Inverter. , 2020, , .		4
80	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
81	&#x201C;A new remedial strategy for permanent magnet synchronous motor based on artificial neural network&#x201D;. , 2013, , .		3
82	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
83	A Novel Methodology to Determine the Maximum PV Penetration in Distribution Networks. , 2019, , .		3
84	Selective Harmonic Elimination PWM For a Cascaded Multi-level Inverter. , 2020, , .		3
85	A Robust Grid-Tied PV System based Super-Twisting Integral Sliding Mode Control. , 2021, , .		3
86	Cascading Failure Vulnerability Analysis in Interdependent Power Communication Networks. IEEE Systems Journal, 2022, 16, 3500-3511.	4.6	3
87	Residential load management system for future smart energy environment in GCC countries. , 2015, , .		2
88	Dynamic Voltage Stability Impact of Large-Scale Photovoltaic System on Electric Power Grids. , 2016, , .		2
89	Smart and energy efficient air-conditioning system. , 2017, , .		2
90	ANN based prognostication of the PV panel output power under various environmental conditions. , 2018, , .		2

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91	The Impact of Water Trees and Cavities on the Electric Field Distribution in XLPE Power Cables. , 2019, , .		2
92	Partial Discharge Signal Propagation in T-Structured GIS. , 2019, , .		2
93	Real-Time Digital Simulation for Sensorless Control Scheme based on Reduced-Order Sliding Mode Observer for Dual Star Induction Motor. , 2020, , .		2
94	Incipient Stator Winding Turn Faults Detection in Induction Motor. , 2021, , .		2
95	A novel smart energy management system in sports stadiums. , 2016, , .		1
96	Model predictive control with non-linear feedback for permanent magnet synchronous motor drives. , 2018, , .		1
97	Partial Discharge Inception Voltage Measurement for an Artificially Created Void Inside the Solid Dielectric. , 2019, , .		1
98	Impact of Dimensionality Reduction Techniques on the Classification of Ceramic Insulators Defects. , 2021, , .		1
99	Electrical Tree Growth Behavior Under AC and DC High Voltage in Power Cables. , 2021, , .		1
100	Transient analysis and simulation of large-scale photovoltaic (PV) energy system integration into the distribution grid. Qscience Proceedings, 2016, 2016, 29.	0.0	0
101	A Noval Self Healing Control System for Next Generation Electric Grid with Big Data Platform. , 2018, , .		0
102	Enhanced Machine Learning Approaches for Diagnosing Building Systems. , 2019, , .		0
103	Average Model based Effective Control Approach for a Grid-Connected PV PUC5 Inverter. , 2019, , .		0
104	A Computational Model for Pre-breakdown in Gas Insulated Switchgear. , 2019, , .		0
105	Power Industrial Electronics and Informatics for Humans [Students and Young Professionals News]. IEEE Industrial Electronics Magazine, 2020, 14, 83-95.	2.6	0
106	Improvement in Three-Dimension al Finite Element Modeling for High Voltage Power Transformer in Time Domain. , 2021, , .		0
107	An Effective Sliding Mode PWM Control for The PUC5 Inverter. , 2021, , .		0
108	Impact of Integrating Large-Capacity Hybrid Renewable Energy Systems into Qatar's Power Grid. , 2016, , .		0

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109	Locational Marginal Electricity Price Forecasting-Based Self-Attention Mechanism and Simulated Annealing Optimizer using Big Data. , 2021, , .		0
110	A Computational Model for Aging Dependability in Polymeric Cable Insulation. , 2021, , .		0
111	Partial Discharge Signal Propagation in Three-Phase Gas-Insulated Switchgear: CIGRE Recommendations-Based Analysis. , 2020, , .		0
112	An Effective Super-Twisting Control of a Standalone PUC5 Inverter. , 2020, , .		0
113	A Comparative Study of Active Control Methods for Mitigation of Torsional Stick-Slip Vibrations in Drillstring Systems. , 2020, , .		0
114	Investigation on Optimizing Cost Function to Penalize Underestimation of Load Demand through Deep Learning Modeling. , 2021, , .		0
115	On the Impact of Control Center Allocation on Power-Communication Network Vulnerability. , 2021, , .		0
116	The Impact of Thermal Stresses on Volume Resistivity: Performance Comparison between TR-XLPE and XLPE Cables. , 2021, , .		0
117	Modeling and Evaluation of Electric Treeing Phenomena in Polymeric Cable Insulation. , 2021, , .		0
118	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
119	A Coplanar Waveguide Based Antenna for Partial Discharge Detection in Gas-insulated Switchgear. , 2022, , .		0