Mohammad Lutfi Othman

List of Publications by Year
in descending order

118 papers	1,422 citations	304743 22 h-index	414414 32 g-index
122 all docs	122 docs citations	122 times ranked	961 citing authors

#	Article	IF	Citations
1	A Hankel Matrix Based Reduced Order Model for Stability Analysis of Hybrid Power System Using PSO-GSA Optimized Cascade PI-PD Controller for Automatic Load Frequency Control. IEEE Access, 2020, 8, 71422-71446.	4.2	92
2	LSTM Recurrent Neural Network Classifier for High Impedance Fault Detection in Solar PV Integrated Power System. IEEE Access, 2021, 9, 32672-32687.	4.2	82
3	A Comprehensive Review on Optimal Location and Sizing of Reactive Power Compensation Using Hybrid-Based Approaches for Power Loss Reduction, Voltage Stability Improvement, Voltage Profile Enhancement and Loadability Enhancement. IEEE Access, 2020, 8, 222733-222765.	4.2	63
4	Genetic Algorithm-Based Optimization of Overcurrent Relay Coordination for Improved Protection of DFIG Operated Wind Farms. IEEE Transactions on Industry Applications, 2019, 55, 5727-5736.	4.9	62
5	Hybrid energy management with respect to a hydrogen energy system and demand response. International Journal of Hydrogen Energy, 2020, 45, 1499-1509.	7.1	49
6	Fault Detection and Classification of Shunt Compensated Transmission Line Using Discrete Wavelet Transform and Naive Bayes Classifier. Energies, 2020, 13, 243.	3.1	46
7	Optimal design of power system stabilizer for multimachine power system using farmland fertility algorithm. International Transactions on Electrical Energy Systems, 2020, 30, e12657.	1.9	38
8	Islanding detection method using ridgelet probabilistic neural network in distributed generation. Neurocomputing, 2019, 329, 188-209.	5.9	36
9	Future strategic plan analysis for integrating distributed renewable generation to smart grid through wireless sensor network: Malaysia prospect. Renewable and Sustainable Energy Reviews, 2016, 53, 978-992.	16.4	34
10	Optimal Design and Performance Analysis of a Hybrid Off-Grid Renewable Power System Considering Different Component Scheduling, PV Modules, and Solar Tracking Systems. IEEE Access, 2021, 9, 64393-64413.	4.2	33
11	Islanding detection technique using Slantlet Transform and Ridgelet Probabilistic Neural Network in grid-connected photovoltaic system. Applied Energy, 2018, 231, 645-659.	10.1	32
12	High-impedance fault detection in medium-voltage distribution network using computational intelligence-based classifiers. Neural Computing and Applications, 2019, 31, 9127-9143.	5.6	32
13	Parameter extraction of single, double, and three diodes photovoltaic model based on guaranteed convergence arithmetic optimization algorithm and modified third order Newton Raphson methods. Renewable and Sustainable Energy Reviews, 2022, 162, 112436.	16.4	32
14	A novel islanding detection technique using modified Slantlet transform in multi-distributed generation. International Journal of Electrical Power and Energy Systems, 2019, 112, 460-475.	5.5	31
15	Automatic Load Frequency Control of a Multi-Area Dynamic Interconnected Power System Using a Hybrid PSO-GSA-Tuned PID Controller. Sustainability, 2019, 11, 6908.	3.2	29
16	Artificial Intelligence-Based Power System Stabilizers for Frequency Stability Enhancement in Multi-Machine Power Systems. IEEE Access, 2021, 9, 166095-166116.	4.2	29
17	Torque Distribution Characteristics of a Novel Double-Stator Permanent Magnet Generator Integrated with a Magnetic Gear. Energies, 2017, 10, 2.	3.1	27
18	Optimal power flow using hybrid firefly and particle swarm optimization algorithm. PLoS ONE, 2020, 15, e0235668.	2.5	26

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19	Knowledge Discovery in Distance Relay Event Report: A Comparative Data-Mining Strategy of Rough Set Theory With Decision Tree. IEEE Transactions on Power Delivery, 2010, 25, 2264-2287.	4.3	24
20	Rough-Set-and-Genetic-Algorithm based data mining and Rule Quality Measure to hypothesize distance protective relay operation characteristics from relay event report. International Journal of Electrical Power and Energy Systems, 2011, 33, 1437-1456.	5.5	24
21	High Impedance Fault Detection in Medium Voltage Distribution Network Using Discrete Wavelet Transform and Adaptive Neuro-Fuzzy Inference System. Energies, 2018, 11, 3330.	3.1	24
22	An Anti-Islanding Protection Technique Using a Wavelet Packet Transform and a Probabilistic Neural Network. Energies, 2018, 11, 2701.	3.1	24
23	A Fast Fault Identification in a Grid-Connected Photovoltaic System Using Wavelet Multi-Resolution Singular Spectrum Entropy and Support Vector Machine. Energies, 2019, 12, 2508.	3.1	23
24	Marine predators algorithm for solving single-objective optimal power flow. PLoS ONE, 2021, 16, e0256050.	2.5	23
25	Design of single- and multi-loop self-adaptive PID controller using heuristic based recurrent neural network for ALFC of hybrid power system. Expert Systems With Applications, 2022, 192, 116402.	7.6	23
26	A Novel Theoretical and Practical Methodology for Extracting the Parameters of the Single and Double Diode Photovoltaic Models. IEEE Access, 2022, 10, 11110-11137.	4.2	23
27	Protection of smart substation based on WLAN complies with IEC 61850 using traveling wave analysis. Electric Power Systems Research, 2016, 140, 20-26.	3.6	21
28	A Novel Hybrid Machine Learning Classifier Based Digital Differential Protection Scheme for Intertie Zone of Large-Scale Centralized DFIG based Wind Farms. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	21
29	Application of Neuro-Fuzzy Controller to Replace SMIB and Interconnected Multi-Machine Power System Stabilizers. Sustainability, 2020, 12, 9591.	3.2	19
30	Performance of communication networks for Integrity protection systems based on travelling wave with IEC 61850. International Journal of Electrical Power and Energy Systems, 2018, 95, 664-675.	5.5	18
31	Role of FACTS devices in improving penetration of renewable energy. , 2013, , .		17
32	On the problem formulation for parameter extraction of the photovoltaic model: Novel integration of hybrid evolutionary algorithm and Levenberg Marquardt based on adaptive damping parameter formula. Energy Conversion and Management, 2022, 256, 115403.	9.2	17
33	A novel RK4-Hopfield Neural Network for Power Flow Analysis of power system. Applied Soft Computing Journal, 2020, 93, 106346.	7.2	16
34	Solution of Optimal Power Flow Using Non-Dominated Sorting Multi Objective Based Hybrid Firefly and Particle Swarm Optimization Algorithm. Energies, 2020, 13, 4265.	3.1	15
35	Application of a neuro-fuzzy controller for single machine infinite bus power system to damp low-frequency oscillations. Transactions of the Institute of Measurement and Control, 2021, 43, 3633-3646.	1.7	15
36	A novel discrete wavelet transform–based graphical language classifier for identification of high–impedance fault in distribution power system. International Transactions on Electrical Energy Systems, 2020, 30, e12378.	1.9	14

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37	Recurrent network based power flow solution for voltage stability assessment and improvement with distributed energy sources. Applied Energy, 2021, 302, 117524.	10.1	14
38	Assessing the Techno-Economic Impact of Derating Factors on Optimally Tilted Grid-Tied Photovoltaic Systems. Energies, 2021, 14, 1044.	3.1	13
39	Performance assessment of a hybrid complementary power system for sustainable electrification: A case study. Sustainable Cities and Society, 2022, 76, 103412.	10.4	11
40	Photovoltaic modules evaluation and dry-season energy yield prediction model for NEM in Malaysia. PLoS ONE, 2020, 15, e0241927.	2.5	11
41	Coordination of overcurrent relays protection systems for wind power plants. , 2014, , .		10
42	The Effects of Number of Conducting Switches in a Cascaded Multilevel Inverter Output. , 2019, , .		10
43	Rough-Set-based timing characteristic analyses of distance protective relay. Applied Soft Computing Journal, 2012, 12, 2053-2062.	7.2	8
44	Communication for Distributed Renewable Generations (DRGs): A review on the penetration to Smart Grids (SGs). , 2012, , .		8
45	Design and Development of Three Levels Universal Electric Vehicle Charger Based on Integration of VOC and SPWM Techniques. Journal of Computational and Theoretical Nanoscience, 2017, 14, 4674-4685.	0.4	8
46	Coordinated Design of PSS and IPFC Using FFA to Control Low Frequency Oscillations. , 2021, , .		8
47	PID controller adjustment for MA-LFC by using Imperialist Competitive Algorithm. , 2013, , .		7
48	Design of 24 Hour Energy Generation from Renewable Energy. , 2015, , .		7
49	Multiâ€objective PMU placement optimization considering the placement cost including the current channel allocation and state estimation accuracy. Electrical Engineering in Japan (English Translation) Tj ETQq1 1 0.784314 rgBT /Ove	0.2	7
50	Extraction of winding parameters for 33/11 kV, 30 MVA transformer based on finite element method for frequency response modelling. PLoS ONE, 2020, 15, e0236409.	2.5	7
51	A Novel Island Detection Threshold Setting Using Phasor Measurement Unit Voltage Angle in a Distribution Network. Energies, 2021, 14, 4877.	3.1	7
52	A random subspace ensemble classification model for discrimination of power quality events in solar PV microgrid power network. PLoS ONE, 2022, 17, e0262570.	2.5	7
53	Multi-Attribute Decision-Making Approach for a Cost-Effective and Sustainable Energy System Considering Weight Assignment Analysis. Sustainability, 2021, 13, 5615.	3.2	6
54	Zero root-mean-square error for single- and double-diode photovoltaic models parameter determination. Neural Computing and Applications, 0, , 1.	5.6	6

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55	A novel Zigbee-based data acquisition system for distributed photovoltaic generation in smart grid. , 2015, , .		5
56	A NOVEL DOUBLE-STATOR PERMANENT MAGNET GENERATOR INTEGRATED WITH A MAGNETIC GEAR. Progress in Electromagnetics Research M, 2016, 49, 69-80.	0.9	5
57	Grey Wolf Optimization based Improved Protection of Wind Power Generation Systems. , 2018, , .		5
58	Genetic Algorithm Based Optimization of Overcurrent Relay Coordination for Improved Protection of DFIG Operated Wind Farms. , 2018, , .		5
59	Comparisons process-to-bay level peer-to-peer network delay in IEC 61850 substation communication systems. Journal of Electrical Systems and Information Technology, 2014, 1, 266-275.	1.7	4
60	Modeling and simulation of the industrial numerical distance relay aimed at knowledge discovery in resident event reporting. Simulation, 2014, 90, 660-686.	1.8	4
61	Artificial Neural Network Application in Optimal Coordination of Directional Overcurrent Protective Relays in Electrical Mesh Distribution Network. Applied Mechanics and Materials, 0, 785, 48-52.	0.2	4
62	POWER DENSITY EVALUATION OF A NOVEL DOUBLE-STATOR MAGNETIC GEARED PERMANENT MAGNET GENERATOR. Progress in Electromagnetics Research B, 2018, 80, 19-36.	1.0	4
63	Investigation on the Resonant Oscillations in an 11 kV Distribution Transformer under Standard and Chopped Lightning Impulse Overvoltages with Different Shield Placement Configurations. Energies, 2019, 12, 1466.	3.1	4
64	A Novel Differential-based Protection Scheme for Intertie Zone of Large-Scale Centralized DFIG Wind Farms. , 2019, , .		4
65	Mitigation of Oscillations in SMIB using a Novel Farmland Fertility Optimization based PIDPSS. , 2020, , .		4
66	Power flow solution using a novel generalized linear Hopfield network based on Moore–Penrose pseudoinverse. Neural Computing and Applications, 2021, 33, 11673-11689.	5.6	4
67	Power Resilience Enhancement of a PV- Battery-Diesel Microgrid. , 2020, , .		4
68	Adverse Impact of STATCOM on the Performance of Distance Relay. Indonesian Journal of Electrical Engineering and Computer Science, 2017, 6, 528.	0.8	4
69	Adaptive ANN based differential protective relay for reliable power transformer protection operation during energisation. IAES International Journal of Artificial Intelligence, 2019, 8, 307.	0.8	4
70	Determining penetration limit of central PVDG topology considering the stochastic behaviour of PV generation and loads to reduce power losses and improve voltage profiles. IET Renewable Power Generation, 2020, 14, 2629-2638.	3.1	4
71	Optimization of Distribution Control System in Oil Refinery by Applying Hybrid Machine Learning Techniques. IEEE Access, 2022, 10, 3890-3903.	4.2	4
72	PID controller adjustment for MA-LFC by using a hybrid Genetic-Tabu Search Algorithm. , 2013, , .		3

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73	WLAN oriented optimization of process bus in IEC 61850-based substation communication network. , 2015, , .		3
74	New technique for decreasing of total harmonic distortion of three-phases bridge rectifier by using the method of harmonic injection. , 2016, , .		3
75	Power Characteristics Analysis of a Novel Double-Stator Magnetic Geared Permanent Magnet Generator. Energies, 2017, 10, 2048.	3.1	3
76	Voltage Stability Index Calculation by Hybrid State Estimation based on Multi Objective Optimal Phasor Measurement Unit Placement. Energies, 2019, 12, 2688.	3.1	3
77	Determining Optimal Tilt Angle to Maximize the PV Yield. , 2020, , .		3
78	A Review on ESCOâ€™s Challenges and Project Management as a Solving Tool. Indonesian Journal of Electrical Engineering and Computer Science, 2018, 12, 269.	0.8	3
79	Multi Objective PMU Placement Optimization Considering the Placement Cost Including the Current Channel Allocation and State Estimation Accuracy. IEEJ Transactions on Power and Energy, 2019, 139, 84-90.	0.2	3
80	Efficient Soft Sensor Modelling for Advanced Manufacturing Systems by Applying Hybrid Intelligent Soft Computing Techniques. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	3
81	Wind Power Plants Protection Using Overcurrent Relays. Universal Journal of Electrical and Electronic Engineering, 2014, 2, 311-319.	0.3	3
82	Feasibility analysis of standalone PV powered battery using SEN for Smart Grid. International Journal of Power Electronics and Drive Systems, 2020, 11, 667.	0.6	3
83	Rough Set Based Data Mining Strategy for Analyzing Distance Protective Relay Operations. , 2009, , .		2
84	Small signal stability assessment and control of power systems. , 2012, , .		2
85	Ambient temperature effect on Amorphous Silicon (A-Si) Photovoltaic module using sensing technology. , 2015, , .		2
86	Ant Colony Optimization Technique in Optimal Capacitor Placement and Sizing Problem in Unbalanced Electrical Distribution System. Applied Mechanics and Materials, 0, 785, 78-82.	0.2	2
87	Discovering Decision Algorithm from a Distance Relay Event Report. Journal of Applied Sciences, 2009, 9, 3433-3453.	0.3	2
88	Design and Experimental Results of Universal Electric Vehicle Charger Using DSP. Telkomnika (Telecommunication Computing Electronics and Control), 2018, 16, 1435.	0.8	2
89	Energy efficiency enhancement using dynamic voltage restorer (DVR). International Journal of Power Electronics and Drive Systems, 2019, 10, 1308.	0.6	2
90	Transmission line fault identification and classification with integrated FACTS device using multiresolution analysis and naÃ¯ve bayes classifier. International Journal of Power Electronics and Drive Systems, 2020, 11, 907.	0.6	2

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91	Dynamic Communication for Smart Metering: Leading Edge for Sustainable Energy and PHEV. Advanced Materials Research, 0, 805-806, 1107-1115.	0.3	1
92	Novel Rule Base Development from IED-Resident Big Data for Protective Relay Analysis Expert System. , 2016, , .		1
93	Hybrid renewable energy as power supply for shelter during natural disasters. , 2016, , .		1
94	Influence of Measurement Uncertainty Propagation in Current-channel-selectable Multi Objective Optimal Phasor Measurement Unit Placement Problem. , 2019, , .		1
95	Dynamic Economic Dispatch Assessment Using Particle Swarm Optimization Technique. Bulletin of Electrical Engineering and Informatics, 2018, 7, 458-464.	0.8	1
96	Faults Signature Extraction in Wind Farm Integrated Transmission Line Topology. Indonesian Journal of Electrical Engineering and Computer Science, 2018, 12, 246.	0.8	1
97	Improved reliability assessment of backup battery storage integrated with power supply system in a building. International Journal of Power Electronics and Drive Systems, 2019, 10, 1538.	0.6	1
98	Load Flow Analysis using Intelligence-based Hopfield Neural Network for Voltage Stability Assessment. , 2020, , .		1
99	Single Line-to-Ground Fault Special Protection Scheme for Integrated WindFarm Transmission Line Using Data Mining. , 2020, , .		1
100	Performance Analysis of ZigBeePRO Network Using the Shortest Path Algorithm for Distributed Renewable Generation. Elektronika Ir Elektrotechnika, 2021, 27, 49-56.	0.8	1
101	CFD analysis of wind blocking vs. Venturi effect: A case study in tropical climate. , 2013, , .		0
102	Analysis of switches blocking voltages in a voltage taps based cascaded multilevel inverter topology. , 2017, , .		0
103	A cascaded multilevel inverter topology with only one bidirectional conducting switch. , 2017, , .		0
104	Investigation on the Transient Voltage in a 11 kV Transformer Under Lightning Surges. , 2018, , .		0
105	A Single Battery Bank, Three-Phase Cascaded Multilevel Inverter with the Least Number of Conducting Switches. , 2018, , .		0
106	Design and Implementation Challenges of Energy Saving Projects in Underdeveloped countries and their perspective solutions in the light of project management principles - A Review. , 2018, , .		0
107	Knowledge-Based Power System Protection Design Courseware. Journal of Applied Sciences, 2006, 6, 2963-2977.	0.3	0
108	Transmission Lines Modeling Based on Vector Fitting Algorithm and RLC Active/Passive Filter Design. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	0

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109	Differential Evolution Based Special Protection and Control Scheme for Contingency Monitoring of Transmission Line Overloading. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 475-487.	0.7	0
110	Smart Monitoring and Controlling of Frequency Deviation by Using MATLAB GUI and ARDUINO DAQ Card. Indonesian Journal of Electrical Engineering and Computer Science, 2018, 11, 224.	0.8	0
111	Reliability-Based Phasor Measurement Unit with Outage of Transmission Lines. International Journal of Engineering and Technology(UAE), 2018, 7, 163.	0.3	0
112	Hybrid Signal Processing and Machine Learning Algorithm for Adaptive Fault Classification of Wind Farm Integrated Transmission Line Protection. International Journal of Integrated Engineering, 2019, 11, .	0.4	0
113	Project Management Tracking Approach and Its Effect to Energy-Saving Projects. International Journal of Advanced Trends in Computer Science and Engineering, 2019, 8, 182-189.	0.2	0
114	Effect of shield placement for transient voltage mitigation due to switching surges in a 33/11 kV transformer windings. PLoS ONE, 2020, 15, e0240368.	2.5	0
115	Photovoltaic modules evaluation and dry-season energy yield prediction model for NEM in Malaysia. , 2020, 15, e0241927.		0
116	Photovoltaic modules evaluation and dry-season energy yield prediction model for NEM in Malaysia. , 2020, 15, e0241927.		0
117	Photovoltaic modules evaluation and dry-season energy yield prediction model for NEM in Malaysia. , 2020, 15, e0241927.		0
118	Photovoltaic modules evaluation and dry-season energy yield prediction model for NEM in Malaysia. , 2020, 15, e0241927.		0