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	Performance assessment of a hybrid complementary power system for sustainable electrification: A case study. Sustainable Cities and Society, 2022, 76, 103412.	10.4	11
2	Optimization of Distribution Control System in Oil Refinery by Applying Hybrid Machine Learning Techniques. IEEE Access, 2022, 10, 3890-3903.	4.2	4
3	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
4	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
5	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
6	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
7	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
8	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
9	Assessing the Techno-Economic Impact of Derating Factors on Optimally Tilted Grid-Tied Photovoltaic Systems. Energies, 2021, 14, 1044.	3.1	13
10	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
11	Multi-Attribute Decision-Making Approach for a Cost-Effective and Sustainable Energy System Considering Weight Assignment Analysis. Sustainability, 2021, 13, 5615.	3.2	6
12	A Novel Island Detection Threshold Setting Using Phasor Measurement Unit Voltage Angle in a Distribution Network. Energies, 2021, 14, 4877.	3.1	7
13	Marine predators algorithm for solving single-objective optimal power flow. PLoS ONE, 2021, 16, e0256050.	2.5	23
14	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
15	Recurrent network based power flow solution for voltage stability assessment and improvement with distributed energy sources. Applied Energy, 2021, 302, 117524.	10.1	14
16	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
17	Artificial Intelligence-Based Power System Stabilizers for Frequency Stability Enhancement in Multi-Machine Power Systems. IEEE Access, 2021, 9, 166095-166116.	4.2	29
18	Coordinated Design of PSS and IPFC Using FFA to Control Low Frequency Oscillations. , 2021, , .		8

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19	Performance Analysis of ZigBeePRO Network Using the Shortest Path Algorithm for Distributed Renewable Generation. Elektronika Ir Elektrotechnika, 2021, 27, 49-56.	0.8	1
20	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
21	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
22	Application of Neuro-Fuzzy Controller to Replace SMIB and Interconnected Multi-Machine Power System Stabilizers. Sustainability, 2020, 12, 9591.	3.2	19
23	Optimal power flow using hybrid firefly and particle swarm optimization algorithm. PLoS ONE, 2020, 15, e0235668.	2.5	26
24	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
25	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
26	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
27	Mitigation of Oscillations in SMIB using a Novel Farmland Fertility Optimization based PIDPSS. , 2020, , .		4
28	A novel RK4-Hopfield Neural Network for Power Flow Analysis of power system. Applied Soft Computing Journal, 2020, 93, 106346.	7.2	16
29	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
30	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
31	Fault Detection and Classification of Shunt Compensated Transmission Line Using Discrete Wavelet Transform and Naive Bayes Classifier. Energies, 2020, 13, 243.	3.1	46
32	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
33	Determining Optimal Tilt Angle to Maximize the PV Yield. , 2020, , .		3
34	Power Resilience Enhancement of a PV- Battery-Diesel Microgrid. , 2020, , .		4
35	Photovoltaic modules evaluation and dry-season energy yield prediction model for NEM in Malaysia. PLoS ONE, 2020, 15, e0241927.	2.5	11
36	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

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37	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
38	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
39	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
40	Load Flow Analysis using Intelligence-based Hopfield Neural Network for Voltage Stability Assessment. , 2020, , .		1
41	Single Line-to-Ground Fault Special Protection Scheme for Integrated WindFarm Transmission Line Using Data Mining. , 2020, , .		1
42	Photovoltaic modules evaluation and dry-season energy yield prediction model for NEM in Malaysia. , 2020, 15, e0241927.		0
43	Photovoltaic modules evaluation and dry-season energy yield prediction model for NEM in Malaysia. , 2020, 15, e0241927.		0
44	Photovoltaic modules evaluation and dry-season energy yield prediction model for NEM in Malaysia. , 2020, 15, e0241927.		0
45	Photovoltaic modules evaluation and dry-season energy yield prediction model for NEM in Malaysia. , 2020, 15, e0241927.		0
46	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
47	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
48	Voltage Stability Index Calculation by Hybrid State Estimation based on Multi Objective Optimal Phasor Measurement Unit Placement. Energies, 2019, 12, 2688.	3.1	3
49	The Effects of Number of Conducting Switches in a Cascaded Multilevel Inverter Output. , 2019, , .		10
50	Influence of Measurement Uncertainty Propagation in Current-channel-selectable Multi Objective Optimal Phasor Measurement Unit Placement Problem. , 2019, , .		1
51	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
52	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
53	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
54	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 ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	7

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55	A Novel Differential-based Protection Scheme for Intertie Zone of Large-Scale Centralized DFIG Wind Farms. , 2019, , .		4
56	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
57	Islanding detection method using ridgelet probabilistic neural network in distributed generation. Neurocomputing, 2019, 329, 188-209.	5.9	36
58	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
59	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
60	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
61	Energy efficiency enhancement using dynamic voltage restorer (DVR). International Journal of Power Electronics and Drive Systems, 2019, 10, 1308.	0.6	2
62	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
63	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
64	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
65	Investigation on the Transient Voltage in a 11 kV Transformer Under Lightning Surges. , 2018, , .		0
66	A Single Battery Bank, Three-Phase Cascaded Multilevel Inverter with the Least Number of Conducting Switches. , 2018, , .		0
67	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
68	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
69	Grey Wolf Optimization based Improved Protection of Wind Power Generation Systems. , 2018, , .		5
70	Genetic Algorithm Based Optimization of Overcurrent Relay Coordination for Improved Protection of DFIG Operated Wind Farms. , 2018, , .		5
71	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
72	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

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73	An Anti-Islanding Protection Technique Using a Wavelet Packet Transform and a Probabilistic Neural Network. Energies, 2018, 11, 2701.	3.1	24
74	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
75	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
76	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
77	Design and Experimental Results of Universal Electric Vehicle Charger Using DSP. Telkomnika (Telecommunication Computing Electronics and Control), 2018, 16, 1435.	0.8	2
78	Reliability-Based Phasor Measurement Unit with Outage of Transmission Lines. International Journal of Engineering and Technology(UAE), 2018, 7, 163.	0.3	0
79	Dynamic Economic Dispatch Assessment Using Particle Swarm Optimization Technique. Bulletin of Electrical Engineering and Informatics, 2018, 7, 458-464.	0.8	1
80	Faults Signature Extraction in Wind Farm Integrated Transmission Line Topology. Indonesian Journal of Electrical Engineering and Computer Science, 2018, 12, 246.	0.8	1
81	Analysis of switches blocking voltages in a voltage taps based cascaded multilevel inverter topology. , 2017, , .		0
82	A cascaded multilevel inverter topology with only one bidirectional conducting switch. , 2017, , .		0
83	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
84	Torque Distribution Characteristics of a Novel Double-Stator Permanent Magnet Generator Integrated with a Magnetic Gear. Energies, 2017, 10, 2.	3.1	27
85	Power Characteristics Analysis of a Novel Double-Stator Magnetic Geared Permanent Magnet Generator. Energies, 2017, 10, 2048.	3.1	3
86	Adverse Impact of STATCOM on the Performance of Distance Relay. Indonesian Journal of Electrical Engineering and Computer Science, 2017, 6, 528.	0.8	4
87	Novel Rule Base Development from IED-Resident Big Data for Protective Relay Analysis Expert System. , 2016, , .		1
88	A NOVEL DOUBLE-STATOR PERMANENT MAGNET GENERATOR INTEGRATED WITH A MAGNETIC GEAR. Progress in Electromagnetics Research M, 2016, 49, 69-80.	0.9	5
89	New technique for decreasing of total harmonic distortion of three-phases bridge rectifier by using the method of harmonic injection. , 2016, , .		3
90	Hybrid renewable energy as power supply for shelter during natural disasters. , 2016, , .		1

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91	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
92	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
93	Ambient temperature effect on Amorphous Silicon (A-Si) Photovoltaic module using sensing technology. , 2015, , .		2
94	WLAN oriented optimization of process bus in IEC 61850-based substation communication network. , 2015, , .		3
95	Design of 24 Hour Energy Generation from Renewable Energy. , 2015, , .		7
96	A novel Zigbee-based data acquisition system for distributed photovoltaic generation in smart grid. , 2015, , .		5
97	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
98	Coordination of overcurrent relays protection systems for wind power plants. , 2014, , .		10
99	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
100	Wind Power Plants Protection Using Overcurrent Relays. Universal Journal of Electrical and Electronic Engineering, 2014, 2, 311-319.	0.3	3
101	PID controller adjustment for MA-LFC by using Imperialist Competitive Algorithm. , 2013, , .		7
102	PID controller adjustment for MA-LFC by using a hybrid Genetic-Tabu Search Algorithm. , 2013, , .		3
103	Role of FACTS devices in improving penetration of renewable energy. , 2013, , .		17
104	CFD analysis of wind blocking vs. Venturi effect: A case study in tropical climate. , 2013, , .		0
105	Rough-Set-based timing characteristic analyses of distance protective relay. Applied Soft Computing Journal, 2012, 12, 2053-2062.	7.2	8
106	Communication for Distributed Renewable Generations (DRGs): A review on the penetration to Smart Grids (SGs). , 2012, , .		8
107	Small signal stability assessment and control of power systems. , 2012, , .		2
108	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

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109	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
110	Rough Set Based Data Mining Strategy for Analyzing Distance Protective Relay Operations. , 2009, , .		2
111	Discovering Decision Algorithm from a Distance Relay Event Report. Journal of Applied Sciences, 2009, 9, 3433-3453.	0.3	2
112	Knowledge-Based Power System Protection Design Courseware. Journal of Applied Sciences, 2006, 6, 2963-2977.	0.3	0
113	Dynamic Communication for Smart Metering: Leading Edge for Sustainable Energy and PHEV. Advanced Materials Research, 0, 805-806, 1107-1115.	0.3	1
114	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
115	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
116	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
117	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
118	Zero root-mean-square error for single- and double-diode photovoltaic models parameter determination. Neural Computing and Applications, 0, , 1.	5.6	6