Mohd Amran Mohd Radzi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

143 papers	2,754 citations	23 h-index	49 g-index
173 ext. papers	3,694 ext. citations	4 avg, IF	5.6 L-index

#	Paper	IF	Citations
143	Power loss due to soiling on solar panel: A review. *Renewable and Sustainable Energy Reviews*, **2016**, 59, 1307-1316	16.2	430
142	Multi-objective optimization of a stand-alone hybrid renewable energy system by using evolutionary algorithms: A review. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 3364-3369	16.2	282
141	Development of adaptive perturb and observe-fuzzy control maximum power point tracking for photovoltaic boost dcdc converter. *IET Renewable Power Generation*, **2014**, 8, 183-194	2.9	164
140	A current and future study on non-isolated DCDC converters for photovoltaic applications. *Renewable and Sustainable Energy Reviews*, **2013**, 17, 216-227	16.2	159
139	The present and future of smart power grid in developing countries. *Renewable and Sustainable Energy Reviews*, **2014**, 29, 828-834	16.2	98
138	Assessment of hybrid renewable power sources for rural electrification in Malaysia. *Renewable and Sustainable Energy Reviews*, **2014**, 30, 299-305	16.2	95
137	Neural Network and Bandless Hysteresis Approach to Control Switched Capacitor Active Power Filter for Reduction of Harmonics. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 1477-1484	8.9	75
136	Dye Sensitized Solar Cell (DSSC) greenhouse shading: New insights for solar radiation manipulation. *Renewable and Sustainable Energy Reviews*, **2018**, 92, 171-186	16.2	74
135	Review of Control Techniques for HVAC SystemsNonlinearity Approaches Based on Fuzzy Cognitive Maps. *Energies*, **2018**, 11, 495	3.1	68
134	Fault detection of broken rotor bar in LS-PMSM using random forests. *Measurement: Journal of the International Measurement Confederation*, **2018**, 116, 273-280	4.6	64
133	A general approach toward building integrated photovoltaic systems and its implementation barriers: A review. *Renewable and Sustainable Energy Reviews*, **2013**, 22, 527-538	16.2	62
132	Control Algorithms of Shunt Active Power Filter for Harmonics Mitigation: A Review. *Energies*, **2017**, 10, 2038	3.1	58
131	Automated positioning dual-axis solar tracking system with precision elevation and azimuth angle control. *Energy*, **2017**, 124, 160-170	7.9	57
130	Modelling and Prediction of Photovoltaic Power Output Using Artificial Neural Networks. *International Journal of Photoenergy*, **2014**, 2014, 1-10	2.1	56
129	Operation of Three-Level Inverter-Based Shunt Active Power Filter Under Nonideal Grid Voltage Conditions With Dual Fundamental Component Extraction. *IEEE Transactions on Power Electronics*, **2018**, 33, 7558-7570	7.2	40
128	Lightning protection on photovoltaic systems: A review on current and recommended practices. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 1611-1619	16.2	33
127	DC-link capacitor voltage control for single-phase shunt active power filter with step size error cancellation in self-charging algorithm. *IET Power Electronics*, **2016**, 9, 323-335	2.2	31

126	A comparative study of three types of grid connected photovoltaic systems based on actual performance. *Energy Conversion and Management*, **2014**, 78, 8-13	10.6	31
125	Islanding detection method using ridgelet probabilistic neural network in distributed generation. *Neurocomputing*, **2019**, 329, 188-209	5.4	27
124	Spatial matching of large-scale grid-connected photovoltaic power generation with utility demand in Peninsular Malaysia. *Applied Energy*, **2017**, 191, 663-688	10.7	25
123	Spatial energy predictions from large-scale photovoltaic power plants located in optimal sites and connected to a smart grid in Peninsular Malaysia. *Renewable and Sustainable Energy Reviews*, **2016**, 66, 79-94	16.2	25
122	Embracing new agriculture commodity through integration of Java Tea as high Value Herbal crops in solar PV farms. *Journal of Cleaner Production*, **2015**, 91, 71-77	10.3	24
121	Lightning Surge Analysis on a Large Scale Grid-Connected Solar Photovoltaic System. *Energies*, **2017** , 10, 2149	3.1	23
120	Modified Synchronous Reference Frame Based Shunt Active Power Filter with Fuzzy Logic Control Pulse Width Modulation Inverter. *Energies*, **2017**, 10, 758	3.1	23
119	Islanding detection technique using Slantlet Transform and Ridgelet Probabilistic Neural Network in grid-connected photovoltaic system. *Applied Energy*, **2018**, 231, 645-659	10.7	22
118	Evaluation of Fuzzy Logic Subsets Effects on Maximum Power Point Tracking for Photovoltaic System. *International Journal of Photoenergy*, **2014**, 2014, 1-13	2.1	21
117	DC-Link Capacitor Voltage Regulation for Three-Phase Three-Level Inverter-Based Shunt Active Power Filter with Inverted Error Deviation Control. *Energies*, **2016**, 9, 533	3.1	21
116	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	5.1	19
115	An Enhanced Adaptive Perturb and Observe Technique for Efficient Maximum Power Point Tracking Under Partial Shading Conditions. *Applied Sciences (Switzerland)*, **2020**, 10, 3912	2.6	19
114	Shunt Active Power Filter: A Review on Phase Synchronization Control Techniques. *Electronics (Switzerland)*, **2019**, 8, 791	2.6	19
113	A Simplified Synchronous Reference Frame for Indirect Current Controlled Three-level Inverter-based Shunt Active Power Filters. *Journal of Power Electronics*, **2016**, 16, 1964-1980	0.9	19
112	A Matignon Theorem Based Stability Analysis of Hybrid Power System for Automatic Load Frequency Control Using Atom Search Optimized FOPID Controller. *IEEE Access*, **2020**, 8, 168751-168772	3.5	18
111	An Anti-Islanding Protection Technique Using a Wavelet Packet Transform and a Probabilistic Neural Network. *Energies*, **2018**, 11, 2701	3.1	18
110	Comparison of ANN and P&O MPPT methods for PV applications under changing solar irradiation **2013**,		17
109	**2007**,		17

108	Basic design aspects of micro hydro power plant and its potential development in Malaysia		17
107	DC-based smart PV-powered home energy management system based on voltage matching and RF module. *PLoS ONE*, **2017**, 12, e0185012	3.7	16
106	Neutral-point voltage deviation control for three-level inverter-based shunt active power filter with fuzzy-based dwell time allocation. *IET Power Electronics*, **2017**, 10, 429-441	2.2	15
105	Artificial neural network based maximum power point tracking controller for photovoltaic standalone system. *International Journal of Green Energy*, **2016**, 13, 283-291	3	15
104	Calculating electrical and thermal characteristics of multiple PV array configurations installed in the tropics. *Energy Conversion and Management*, **2013**, 75, 418-424	10.6	15
103	The effect of temperature on a mono-crystalline solar PV panel **2015**,		15
102	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	3.5	15
101	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	14
100	A new cascaded multilevel inverter topology with minimum number of conducting switches **2014**,		14
99	Static Eccentricity Fault Recognition in Three-Phase Line Start Permanent Magnet Synchronous Motor Using Finite Element Method. *Mathematical Problems in Engineering*, **2014**, 2014, 1-12	1.1	13
98	Fundamental Active Current Adaptive Linear Neural Networks for Photovoltaic Shunt Active Power Filters. *Energies*, **2016**, 9, 397	3.1	13
97	Enhanced Instantaneous Power Theory with Average Algorithm for Indirect Current Controlled Three-Level Inverter-Based Shunt Active Power Filter under Dynamic State Conditions. *Mathematical Problems in Engineering*, **2016**, 2016, 1-12	1.1	12
96	Optimization and comparison analysis for application of PV panels in three villages. *Energy Science and Engineering*, **2015**, 3, 145-152	3.4	11
95	GPS based portable dual-axis solar tracking system using astronomical equation **2014**,		11
94	A Refined Self-Tuning Filter-Based Instantaneous Power Theory Algorithm for Indirect Current Controlled Three-Level Inverter-Based Shunt Active Power Filters under Non-sinusoidal Source Voltage Conditions. *Energies*, **2017**, 10, 277	3.1	10
93	Adaptive P&O-fuzzy control MPPT for PV boost dc-dc converter **2012**,		10
92	Application of smart power grid in developing countries **2013**,		10
91	A Photovoltaic-Based SEPIC Converter with Dual-Fuzzy Maximum Power Point Tracking for Optimal Buck and Boost Operations. *Energies*, **2016**, 9, 604	3.1	10

90	Power transistor-assisted Sen Transformer: a novel approach to power flow control. *Electric Power Systems Research*, **2016**, 133, 228-240	3.5	9
89	Investigation of severity of voltage flicker caused by second harmonic. *IET Science, Measurement and Technology*, **2017**, 11, 363-370	1.5	8
88	Measurement-Based Modeling of a Semitransparent CdTe Thin-Film PV Module Based on a Custom Neural Network. *IEEE Access*, **2018**, 6, 34934-34947	3.5	8
87	Broken Rotor Bar Detection in LS-PMSM Based on Startup Current Analysis Using Wavelet Entropy Features. *Applied Sciences (Switzerland)*, **2017**, 7, 845	2.6	8
86	Communication for Distributed Renewable Generations (DRGs): A review on the penetration to Smart Grids (SGs) **2012**,		8
85	Role of FACTS devices in improving penetration of renewable energy **2013**,		8
84	On the effect of lightning on a solar photovoltaic system **2016**,		8
83	Implementation of the power transistor-assisted Sen transformer in steady-state load flow analysis. *IET Generation, Transmission and Distribution*, **2018**, 12, 4182-4193	2.5	8
82	Lightning performance analysis of a rooftop grid-connected solar photovoltaic without external lightning protection system. *PLoS ONE*, **2019**, 14, e0219326	3.7	7
81	A Self-Tuning Filter-Based Adaptive Linear Neuron Approach for Operation of Three-Level Inverter-Based Shunt Active Power Filters under Non-Ideal Source Voltage Conditions. *Energies*, **2017**, 10, 667	3.1	7
80	Dual Function of Unified Adaptive Linear Neurons Based Fundamental Component Extraction Algorithm for Shunt Active Power Filter Operation. *International Review of Electrical Engineering*, **2015**, 10, 544	1.9	7
79	Implementing a Novel Hybrid Maximum Power Point Tracking Technique in DSP via Simulink/MATLAB under Partially Shaded Conditions. *Energies*, **2016**, 9, 85	3.1	7
78	Hybrid FFT-ADALINE algorithm with fast estimation of harmonics in power system. *IET Signal Processing*, **2016**, 10, 855-864	1.7	7
77	Photovoltaic Integrated Shunt Active Power Filter with Simpler ADALINE Algorithm for Current Harmonic Extraction. *Energies*, **2018**, 11, 1152	3.1	7
76	Effect of temperature on a poly-crystalline solar panel in large scale solar plants in Malaysia **2015**,		6
75	A Dual-Function Instantaneous Power Theory for Operation of Three-Level Neutral-Point-Clamped Inverter-Based Shunt Active Power Filter. *Energies*, **2018**, 11, 1592	3.1	5
74	Dual Search Maximum Power Point (DSMPP) Algorithm Based on Mathematical Analysis under Shaded Conditions. *Energies*, **2015**, 8, 12116-12146	3.1	5
73	Predicting power output of photovoltaic systems with solar radiation model **2014**,		5

72	Performance Test Conditions for Direct Temperature Elements of Multiple PV Array Configurations in Malaysia. *Energy Procedia*, **2014**, 61, 2387-2390	2.3	5
71	Mitigation of power quality problems using series active filter in a microgrid system. *International Journal of Power Electronics and Drive Systems*, **2019**, 10, 2245	1.5	5
70	A Novel Hybrid Approach for Maximizing the Extracted Photovoltaic Power under Complex Partial Shading Conditions. *Sustainability*, **2020**, 12, 5786	3.6	5
69	Adaptive Hybrid Fuzzy-Proportional Plus Crisp-Integral Current Control Algorithm for Shunt Active Power Filter Operation. *Energies*, **2016**, 9, 737	3.1	5
68	Broken rotor bar detection in LS-PMSMs based on statistical features analysis of start-up current envelope **2015**,		4
67	Performance analysis of line-start permanent magnet synchronous motor in presence of rotor fault **2014**,		4
66	Modelling of photovoltaic array temperature in a tropical site using generalized extreme value distribution. *Journal of Renewable and Sustainable Energy*, **2014**, 6, 033134	2.5	4
65	Field Measurement of PV Array Temperature for Tracking and Concentrating 1 k WpGenerators Installed in Malaysia. *International Journal of Photoenergy*, **2013**, 2013, 1-8	2.1	4
64			4
63	Renewable sources-based automatic load frequency control of interconnected systems using chaotic atom search optimization. *Applied Soft Computing Journal*, **2022**, 119, 108574	7.5	4
62	Field data-based mathematical modeling by Bode equations and vector fitting algorithm for renewable energy applications. *PLoS ONE*, **2018**, 13, e0191478	3.7	4
61	Motor Current Signature Analysis-based Non-invasive Recognition of Mixed Eccentricity Fault in Line Start Permanent Magnet Synchronous Motor. *Electric Power Components and Systems*, **2021**, 49, 133-145	1	4
60	Novel hybrid maximum power point tracking algorithm for PV systems under partially shaded conditions **2015**,		3
59	Estimation of solar radiation from digital elevation model in area of rough topography. *World Journal of Engineering*, **2016**, 13, 453-460	1.8	3
58	DC-DC converter for photovoltaic powered battery charger. *World Journal of Engineering*, **2016**, 13, 516-523	1.8	3
57	Realization of Single Phase to Three Phase Matrix Converter using SVPWM Algorithm. *Automatika*, **2016**, 57, 129-140	1.6	3
56	Low cost wireless sensor monitoring system for photovoltaic (PV) array parameters **2017**,		3
55	Modelling and simulation of battery electric vehicle by using MATLAB-Simulink **2017**,		3

54	A Simple Predictive Method of Critical Flicker Detection for Human Healthy Precaution. *Mathematical Problems in Engineering*, **2015**, 2015, 1-10	1.1	3
53	Optimal design of hybrid renewable energy system based on solar and biomass for halal products research institute, UPM **2014**,		3
52	Optimal allocation of sen transformer for Active Power Loss Reduction **2014**,		3
51	A modified artificial neural network (ANN) algorithm to control shunt active power filter (SAPF) for current harmonics reduction **2013**,		3
50	DSP-based flexible digital hysteresis in switched capacitor active power filter. *IEICE Electronics Express*, **2010**, 7, 621-627	0.5	3
49	Neural network based detection in switched capacitor filter for harmonic mitigation **2008**,		3
48	On the performance of a polycrystalline PV panel under different impulse voltages and temperatures **2016**,		3
47	PLL-Less Three-Phase Four-Wire SAPF with STF-dq0 Technique for Harmonics Mitigation under Distorted Supply Voltage and Unbalanced Load Conditions. *Energies*, **2018**, 11, 2143	3.1	3
46	An Illustrated Guide to Estimation of Water Velocity in Unregulated River for Hydrokinetic Performance Analysis Studies in East Malaysia. *Water (Switzerland)*, **2018**, 10, 1330	3	3
45	The Effects of Number of Conducting Switches in a Cascaded Multilevel Inverter Output **2019**,		2
44	Photovoltaic Boost DC/DC Converter for Power Led with Adaptive P&O-Fuzzy Maximum Power Point Tracking. *Lecture Notes in Electrical Engineering*, **2019**, 245-251	0.2	2
43	Power system security enhancement and loss reduction using the SMART power flow controller **2014**,		2
42	On the fault location algorithm for distribution networks in presence of DG **2014**,		2
41	Single Phase Shunt Active Power Filter with Simplified ADALINE Neural Network **2014**,		2
40	Simulation of single-phase shunt active power filter with fuzzy logic controller for power quality improvement **2013**,		2
39	A Design of a Hybrid Non-Linear Control Algorithm. *Energies*, **2017**, 10, 1823	3.1	2
38	Power consumption and size minimization of a wireless sensor node in automation system application **2015**,		2
37	Novel modulation method for multidirectional matrix converter. *Scientific World Journal, The*, **2014**, 2014, 645734	2.2	2

36	Hybrid renewable energy systems in remote areas of equatorial countries **2012**,		2
35	Dynamic voltage restorer (DVR) enhancement in power quality mitigation with an adverse impact of unsymmetrical faults. *Energy Reports*, **2022**, 8, 871-882	4.6	2
34	Simplified Adaptive Linear Neuron Harmonics Extraction Algorithm for Dynamic Performance of Shunt Active Power Filter. *International Review on Modelling and Simulations*, **2016**, 9, 144	2.6	2
33	Broken rotor bar fault detection in line start permanent magnet synchronous motor using transient current signal **2016**,		2
32	Adaptive Linear Neural Network Approach for Three-Phase Four-Wire Active Power Filtering under Non-Ideal Grid and Unbalanced Load Scenarios. *Applied Sciences (Switzerland)*, **2019**, 9, 5304	2.6	2
31	High Efficiency Portable Solar Generator utilizing Optimum Solar Panel Orientation **2018**,		2
30	Artificial Intelligence based Fuzzy-MPPT Technique of H-Bridge Inverter for Grid-Connected Photovoltaic System **2018**,		2
29	On the Effect of Surge Protection Devices (SPDs) Placement for Grid-connected Solar PV Farm **2018**,		2
28	New design approach to MIMO nonlinear controller for direct expansion air conditioning system in building automation system **2015**,		1
27	Comparison of developed FLC and P&O MPPT algorithms for improving PV system performance at variable irradiance conditions. *World Journal of Engineering*, **2016**, 13, 494-499	1.8	1
26	Investigation of harmonic components on voltage flicker measurement **2016**,		1
25	Short Circuit Power based fault location algorithm in distribution networks **2014**,		1
24	**2015**,		1
23	Analysis of statistical features based on start-up current envelope for broken rotor bar fault detection in line start permanent magnet synchronous motor. *Electrical Engineering*, **2017**, 99, 187-201	1.5	1
22	Significant insights into the operation of DC-link voltage control of a shunt active power filter using different control algorithms: a comparative study. *Turkish Journal of Electrical Engineering and Computer Sciences*, **2017**, 25, 2033-2043	0.9	1
21	Statistical features analysis of transient current signal for broken bars fault detection in LS-PMSMs **2015**,		1
20	Wireless Sensors System for Broken Rotor bar Fault Monitoring using Wavelet Analysis. *IOP Conference Series: Materials Science and Engineering*, **2015**, 99, 012029	0.4	1
19	Decreasing of grid-tied PV power output due to thick haze phenomena in Malaysia **2014**,		1

18	Diagnosis of static eccentricity fault in line start permanent magnet synchronous motor **2014**,		1
17	Cut-Off solar charge controller as an alternative towards system efficiency optimization **2014**,		1
16	Integration of dual intelligent algorithms in shunt active power filter **2013**,		1
15	Adaptive unified neural network for dynamic power quality compensation **2013**,		1
14	Photovoltaic-Powered Smart Home System with Direct Current-Environment. *Journal of Computational and Theoretical Nanoscience*, **2017**, 14, 4158-4173	0.3	1
13	Improved ADALINE Harmonics Extraction Algorithm for Boosting Performance of Photovoltaic Shunt Active Power Filter under Dynamic Operations. *Journal of Electrical Engineering and Technology*, **2016**, 11, 1714-1728	1.4	1
12	Three-phase three-level shunt active power filter with simplified synchronous reference frame **2016**,		1
11	Investigation on Partial Discharge Localization in Oil Based on Time of Arrival Method **2021**,		1
10	New perturb and observe algorithm based on trapezoidal rule: Uniform and partial shading conditions. *Energy Conversion and Management*, **2022**, 264, 115738	10.6	1
9	An Energy Management initiative for the Calcium Compound Processing Industry. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 2075-2080		0
8	Equalization Technique for Balancing the Modulation Ratio Characteristics of the Single-Phase-to-Three-Phase Matrix Converter. *Scientific Programming*, **2016**, 2016, 1-10	1.4	0
7	Mutation Study of Malaysian Patients with Ornithine Transcarbamylase Deficiency: Clinical, Molecular, and Bioinformatics Analyses of Two Novel Missense Mutations of the Gene. *BioMed Research International*, **2018**, 2018, 4320831	3	0
6	Public Support for Feed-in-Tariff and Net Energy Metering Policies in Malaysia: The Role of Policy Information. *International Journal of Renewable Energy Development*, **2022**, 11, 694-702	1.5	0
5	Impact of Inverter Controller on Efficiency and Islanding of Photovoltaic Distributed Generation. *Applied Mechanics and Materials*, **2015**, 785, 167-171	0.3	
4	The Study of Operation Modes and Control Strategies of a Multidirectional MC for Battery Based System. *Mathematical Problems in Engineering*, **2015**, 2015, 1-14	1.1	
3	Mathematical design and analysis of anti-lock brake system for electric vehicle based on brake-by-wire technology. *International Journal of Electric and Hybrid Vehicles*, **2015**, 7, 303	0.7	
2	Improved Maintenance for Energy Optimization in the Calcium Compound Processing Industry. *Applied Mechanics and Materials*, **2014**, 564, 747-751	0.3	
1	Partial Discharge Localization in Oil through Acoustic Emission Technique Utilizing Fuzzy Logic. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2022**, 1-1	2.3	