Razman Ayop

List of Publications by Year
in descending order

31 papers	589 citations	840119 11 h-index	887659 17 g-index
31 all docs	31 docs citations	31 times ranked	431 citing authors

#	Article	IF	Citations
1	Design of boost converter based on maximum power point resistance for photovoltaic applications. Solar Energy, 2018, 160, 322-335.	2.9	117
2	A rule-based energy management scheme for long-term optimal capacity planning of grid-independent microgrid optimized by multi-objective grasshopper optimization algorithm. Energy Conversion and Management, 2020, 221, 113161.	4.4	109
3	Components sizing of photovoltaic stand-alone system based on loss of power supply probability. Renewable and Sustainable Energy Reviews, 2018, 81, 2731-2743.	8.2	75
4	A comprehensive review on photovoltaic emulator. Renewable and Sustainable Energy Reviews, 2017, 80, 430-452.	8.2	69
5	Rapid Prototyping of Photovoltaic Emulator Using Buck Converter Based on Fast Convergence Resistance Feedback Method. IEEE Transactions on Power Electronics, 2019, 34, 8715-8723.	5.4	42
6	A comprehensive review of energy management strategy in Vehicle-to-Grid technology integrated with renewable energy sources. Sustainable Energy Technologies and Assessments, 2021, 47, 101439.	1.7	32
7	A rule-based power management strategy for Vehicle-to-Grid system using antlion sizing optimization. Journal of Energy Storage, 2021, 41, 102913.	3.9	25
8	Energy management strategy and capacity planning of an autonomous microgrid: Performance comparison of metaheuristic optimization searching techniques. Renewable Energy Focus, 2022, 40, 48-66.	2.2	22
9	A novel photovoltaic emulator based on current-resistor model using binary search computation. Solar Energy, 2018, 160, 186-199.	2.9	20
10	Simple and fast computation photovoltaic emulator using shift controller. IET Renewable Power Generation, 2020, 14, 2017-2026.	1.7	14
11	Improved control strategy for photovoltaic emulator using resistance comparison method and binary search method. Solar Energy, 2017, 153, 83-95.	2.9	12
12	A comparison study of interpolation and circuit based photovoltaic mathematical models. , 2016, , .		8
13	Design and Development of GMapping based SLAM Algorithm in Virtual Agricultural Environment. , 2021, , .		8
14	An Adaptive Controller for Photovoltaic Emulator using Artificial Neural Network. Indonesian Journal of Electrical Engineering and Computer Science, 2017, 5, 556.	0.7	8
15	The Resistance Comparison Method Using Integral Controller for Photovoltaic Emulator. International Journal of Power Electronics and Drive Systems, 2018, 9, 820.	0.5	7
16	A simplified and fast computing photovoltaic model for string simulation under partial shading condition. Sustainable Energy Technologies and Assessments, 2020, 42, 100812.	1.7	5
17	Buck Converter Design for Photovoltaic Emulator Application. , 2020, , .		5
18	Enhancing power loss by optimal coordinated extensive CS operation during off-peak load at the distribution system. E3S Web of Conferences, 2021, 231, 01003.	0.2	2

#	Article	IF	Citations
19	The performances of partial shading adjuster for improving photovoltaic emulator. International Journal of Power Electronics and Drive Systems, 2022, 13, 528.	0.5	2
20	A new multilevel inverter topology based on switched-capacitor technique. International Journal of Power Electronics and Drive Systems, 2021, 12, 627.	0.5	1
21	Comparison of electronic load using linear regulator and boost converter. International Journal of Power Electronics and Drive Systems, 2021, 12, 1720.	0.5	1
22	Harmonic Distortion Improvement Considering Bulk Charging Station and Distributed Generation. , 2020, , .		1
23	Thermal and Dielectric Properties of Thermally Aged Polypropylene/Calcium Carbonate Nanocomposites. , 2020, , .		1
24	Sizing of Photovoltaic Wind Battery system integrated with Vehicle-to-Grid using Cuckoo Search Algorithm. , 2021, , .		1
25	Energy Management Strategy and Capacity Planning of an Autonomous Microgrid: A Comparative Study of Metaheuristic Optimization Searching Techniques. , 2021, , .		1
26	Photovoltaic emulator using error adjustment fuzzy logic proportional-integral controller. International Journal of Power Electronics and Drive Systems, 2022, 13, 1111.	0.5	1
27	VSI improvement using SVC with aid of a modified lightning search algorithm. , 2021, , .		0
28	Angle-Based Photovoltaic Curve Tracing using Boost Converter. Journal of Physics: Conference Series, 2021, 1878, 012016.	0.3	0
29	Computation of current-resistance photovoltaic model using reverse triangular number for photovoltaic emulator application. Indonesian Journal of Electrical Engineering and Informatics, 2019, 7, .	0.3	0
30	Photovoltaic Emulator using Particle Swarm Optimization. , 2021, , .		0
31	Artificial neural network based short term electrical load forecasting. International Journal of Power Electronics and Drive Systems, 2022, 13, 586.	0.5	0