Vun Jack Chin

List of Publications by Year
in descending order

42 papers	5,326 citations	172457 29 h-index	330143 37 g-index
42 all docs	42 docs citations	42 times ranked	3783 citing authors

#	Article	IF	Citations
1	Simple, fast and accurate two-diode model for photovoltaic modules. Solar Energy Materials and Solar Cells, 2011, 95, 586-594.	6.2	535
2	Cell modelling and model parameters estimation techniques for photovoltaic simulator application: A review. Applied Energy, 2015, 154, 500-519.	10.1	494
3	A review of maximum power point tracking techniques of PV system for uniform insolation and partial shading condition. Renewable and Sustainable Energy Reviews, 2013, 19, 475-488.	16.4	488
4	A Maximum Power Point Tracking (MPPT) for PV system using Cuckoo Search with partial shading capability. Applied Energy, 2014, 119, 118-130.	10.1	471
5	A comprehensive MATLAB Simulink PV system simulator with partial shading capability based on two-diode model. Solar Energy, 2011, 85, 2217-2227.	6.1	325
6	The application of soft computing methods for MPPT of PV system: A technological and status review. Applied Energy, 2013, 107, 135-148.	10.1	320
7	Parameter extraction of solar photovoltaic modules using penalty-based differential evolution. Applied Energy, 2012, 99, 297-308.	10.1	302
8	An Enhanced Adaptive P&O MPPT for Fast and Efficient Tracking Under Varying Environmental Conditions. IEEE Transactions on Sustainable Energy, 2018, 9, 1487-1496.	8.8	279
9	Modeling and simulation of photovoltaic (PV) system during partial shading based on a two-diode model. Simulation Modelling Practice and Theory, 2011, 19, 1613-1626.	3.8	252
10	Electric vehicles charging using photovoltaic: Status and technological review. Renewable and Sustainable Energy Reviews, 2016, 54, 34-47.	16.4	189
11	A critical evaluation of EA computational methods for Photovoltaic cell parameter extraction based on two diode model. Solar Energy, 2011, 85, 1768-1779.	6.1	176
12	A critical evaluation on maximum power point tracking methods for partial shading in PV systems. Renewable and Sustainable Energy Reviews, 2015, 47, 933-953.	16.4	150
13	Performance degradation of photovoltaic power system: Review on mitigation methods. Renewable and Sustainable Energy Reviews, 2017, 67, 876-891.	16.4	133
14	Integrated photovoltaic-grid dc fast charging system for electric vehicle: A review of the architecture and control. Renewable and Sustainable Energy Reviews, 2017, 69, 1243-1257.	16.4	117
15	A rule-based energy management scheme for uninterrupted electric vehicles charging at constant price using photovoltaic-grid system. Renewable Energy, 2018, 125, 384-400.	8.9	96
16	Coyote optimization algorithm for the parameter extraction of photovoltaic cells. Solar Energy, 2019, 194, 656-670.	6.1	87
17	A critical review of electric vehicle charging using solar photovoltaic. International Journal of Energy Research, 2016, 40, 439-461.	4.5	83
18	A Simple Energy Recovery Scheme to Harvest the Energy from Shaded Photovoltaic Modules During Partial Shading. IEEE Transactions on Power Electronics, 2014, 29, 6458-6471.	7.9	77

#	Article	IF	Citations
19	Production of liquid biofuels (biodiesel and bioethanol) from brown marine macroalgae Padina tetrastromatica. Energy Conversion and Management, 2017, 135, 351-361.	9.2	74
20	A New Three-point-based Approach for the Parameter Extraction of Photovoltaic Cells. Applied Energy, 2019, 237, 519-533.	10.1	74
21	An Accurate and Fast Computational Algorithm for the Two-diode Model of PV Module Based on a Hybrid Method. IEEE Transactions on Industrial Electronics, 2017, 64, 6212-6222.	7.9	70
22	Optimized sizing of photovoltaic grid–connected electric vehicle charging system using particle swarm optimization. International Journal of Energy Research, 2019, 43, 500-522.	4.5	69
23	A modified differential evolution based maximum power point tracker for photovoltaic system under partial shading condition. Energy and Buildings, 2015, 103, 175-184.	6.7	54
24	Design and implementation of 15–level cascaded multi–level voltage source inverter with harmonics elimination pulse–width modulation using differential evolution method. IET Power Electronics, 2015, 8, 1740-1748.	2.1	53
25	Recent developments of MPPT techniques for PV systems under partial shading conditions: a critical review and performance evaluation. IET Renewable Power Generation, 2020, 14, 3401-3417.	3.1	46
26	Application of differential evolution for cascaded multilevel VSI with harmonics elimination PWM switching. International Journal of Electrical Power and Energy Systems, 2015, 64, 447-456.	5.5	39
27	Electric Vehicle Charging Using Photovoltaic based Microgrid for Remote Islands. Energy Procedia, 2016, 103, 213-218.	1.8	37
28	A High-Gain, High-Efficiency Nonisolated Bidirectional DC–DC Converter With Sustained ZVS Operation. IEEE Transactions on Industrial Electronics, 2018, 65, 7829-7840.	7.9	37
29	Analysis and design of a high efficiency bidirectional DC–DC converter for battery and ultracapacitor applications. Simulation Modelling Practice and Theory, 2011, 19, 1651-1667.	3.8	35
30	Performance evaluation of dc power optimizer (DCPO) for photovoltaic (PV) system during partial shading. Renewable Energy, 2019, 139, 1336-1354.	8.9	33
31	A fast and accurate generalized analytical approach for PV arrays modeling under partial shading conditions. Solar Energy, 2020, 208, 753-765.	6.1	31
32	A Simple Yet Fully Adaptive PSO Algorithm for Global Peak Tracking of Photovoltaic Array Under Partial Shading Conditions. IEEE Transactions on Industrial Electronics, 2022, 69, 5922-5930.	7.9	18
33	Design and implementation of a high–frequency LC–based half–bridge resonant converter for dielectric barrier discharge ozone generator. IET Power Electronics, 2014, 7, 2403-2411.	2.1	15
34	Analysis and experimental validation of partial shading mitigation in photovoltaic system using integrated dc–dc converter with maximum power point tracker. IET Renewable Power Generation, 2019, 13, 2356-2366.	3.1	12
35	Design and implementation of a low cost, high yield dielectric barrier discharge ozone generator based on the single switch resonant converter. IET Power Electronics, 2013, 6, 1583-1591.	2.1	11
36	Charging of Electric Vehicle with Constant Price Using Photovoltaic Based Grid-connected System. , 2016, , .		10

#	Article	IF	Citations
37	An accurate two diode model computation for CIS thin film PV module using the hybrid approach. , 2015, , .		8
38	A Rule-based Power Management Controller using Stateflow for Grid-Connected PV-Battery Energy System supplying Household load. , 2018, , .		8
39	A high gain soft switching non-isolated bidirectional DC-DC converter. , 2016, , .		6
40	Modifications to Accelerate the Iterative Algorithm for the Two-diode Model of PV Module. , 2018, , .		5
41	An Improved Approach to Enhance Training Performance of ANN and the Prediction of PV Power for Any Time-Span without the Presence of Real-Time Weather Data. Sustainability, 2021, 13, 11893.	3.2	5
42	Methodology to Determine Photovoltaic Inverter Conversion Efficiency for the Equatorial Region. Applied Sciences (Switzerland), 2020, 10, 201.	2.5	2