Zainal Salam

List of Publications by Year
in descending order

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25 papers	3,628 citations	516710 16 h-index	642732 23 g-index
25 all docs	25 docs citations	25 times ranked	2561 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	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
3	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
4	An improved perturb and observe (P&O) maximum power point tracking (MPPT) algorithm for higher efficiency. Applied Energy, 2015, 150, 97-108.	10.1	422
5	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
6	A Modified P&O Maximum Power Point Tracking Method With Reduced Steady-State Oscillation and Improved Tracking Efficiency. IEEE Transactions on Sustainable Energy, 2016, 7, 1506-1515.	8.8	304
7	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
8	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
9	An Effective Hybrid Maximum Power Point Tracker of Photovoltaic Arrays for Complex Partial Shading Conditions. IEEE Transactions on Industrial Electronics, 2019, 66, 6990-7000.	7.9	118
10	An Improved Method to Predict the Position of Maximum Power Point During Partial Shading for PV Arrays. IEEE Transactions on Industrial Informatics, 2015, 11, 1378-1387.	11.3	108
11	An Accurate Method for MPPT to Detect the Partial Shading Occurrence in a PV System. IEEE Transactions on Industrial Informatics, 2017, 13, 2151-2161.	11.3	105
12	Design and Implementation of New Multilevel Inverter Topology for Trinary Sequence Using Unipolar Pulsewidth Modulation. IEEE Transactions on Industrial Electronics, 2020, 67, 3573-3582.	7.9	55
13	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
14	A High-Performance Global Maximum Power Point Tracker of PV System for Rapidly Changing Partial Shading Conditions. IEEE Transactions on Industrial Electronics, 2021, 68, 2236-2245.	7.9	53
15	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
16	Performance evaluation of dc power optimizer (DCPO) for photovoltaic (PV) system during partial shading. Renewable Energy, 2019, 139, 1336-1354.	8.9	33
17	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
18	Assessment of maximum power point trackers performance using direct and indirect control methods. International Transactions on Electrical Energy Systems, 2020, 30, e12565.	1.9	17

#	Article	IF	Citations
19	<scp>A</scp> skipping adaptive P&O MPPT for fast and efficient tracking under partial shading in <scp>PV</scp> arrays. International Transactions on Electrical Energy Systems, 2021, 31, e13017.	1.9	14
20	Design and Implementation of a Single Input Fuzzy Logic Controller for Boost Converters. Journal of Power Electronics, 2011, 11, 542-550.	1.5	12
21	Hardware Approach to Mitigate the Effects of Module Mismatch in a Grid-connected Photovoltaic System: A Review. Energies, 2019, 12, 4321.	3.1	7
22	Analysis of Online Lyapunov-Based Adaptive State of Charge Observer for Lithium-Ion Batteries Under Low Excitation Level. IEEE Access, 2020, 8, 178805-178815.	4.2	7
23	Modifications to Accelerate the Iterative Algorithm for the Two-diode Model of PV Module. , 2018, , .		5
24	A computationally efficient adaptive online state-of-charge observer for Lithium-ion battery for electric vehicle. Journal of Energy Storage, 2022, 49, 104141.	8.1	5
25	An Improved Evolutionary Programming (IEP) Method Under the EN 50530 Dynamic MPPT Efficiency Test. , 2019, , .		2