Hassan M H Farh

List of Publications by Year
in descending order

41 papers	1,206 citations	471509 17 h-index	395702 33 g-index
42 all docs	42 docs citations	42 times ranked	811 citing authors

#	Article	IF	Citations
1	Dynamic global maximum power point tracking of the PV systems under variant partial shading using hybrid GWO-FLC. Solar Energy, 2019, 177, 306-316.	6.1	163
2	Maximum power extraction from wind energy system based on fuzzy logic control. Electric Power Systems Research, 2013, 97, 144-150.	3.6	142
3	A novel evaluation index for the photovoltaic maximum power point tracker techniques. Solar Energy, 2018, 174, 940-956.	6.1	69
4	A Novel Crow Search Algorithm Auto-Drive PSO for Optimal Allocation and Sizing of Renewable Distributed Generation. IEEE Access, 2020, 8, 27807-27820.	4.2	64
5	Simulation and experimental validation of fast adaptive particle swarm optimization strategy for photovoltaic global peak tracker under dynamic partial shading. Renewable and Sustainable Energy Reviews, 2020, 124, 109719.	16.4	61
6	Hybrid PSO-FLC for dynamic global peak extraction of the partially shaded photovoltaic system. PLoS ONE, 2018, 13, e0206171.	2.5	45
7	Maximum Power Extraction from a Partially Shaded PV System Using an Interleaved Boost Converter. Energies, 2018, 11, 2543.	3.1	44
8	Impact of PSO Reinitialization on the Accuracy of Dynamic Global Maximum Power Detection of Variant Partially Shaded PV Systems. Sustainability, 2019, 11, 2091.	3.2	43
9	Optimal sizing of autonomous hybrid energy system using supply–demand–based optimization algorithm. International Journal of Energy Research, 2021, 45, 605-625.	4.5	43
10	Novel Manta Rays Foraging Optimization Algorithm Based Optimal Control for Grid-Connected PV Energy System. IEEE Access, 2020, 8, 187276-187290.	4.2	38
11	A novel PSO strategy for improving dynamic change partial shading photovoltaic maximum power point tracker. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-15.	2.3	36
12	Grade point average assessment for metaheuristic GMPP techniques of partial shaded PV systems. IET Renewable Power Generation, 2019, 13, 1215-1231.	3.1	35
13	Interleaved boost converter for global maximum power extraction from the photovoltaic system under partial shading. IET Renewable Power Generation, 2019, 13, 1232-1238.	3.1	34
14	Photovoltaic maximum power point tracking under dynamic partial shading changes by novel adaptive particle swarm optimization strategy. Transactions of the Institute of Measurement and Control, 2020, 42, 104-115.	1.7	31
15	Energy management and renewable energy integration in smart grid system. , 2015, , .		30
16	Fuzzy logic control of wind energy conversion system. Journal of Renewable and Sustainable Energy, 2013, 5, .	2.0	28
17	Techno-Economic Optimization of Small-Scale Hybrid Energy Systems Using Manta Ray Foraging Optimizer. Electronics (Switzerland), 2020, 9, 2045.	3.1	27
18	Technical and Economic Evaluation for Off-Grid Hybrid Renewable Energy System Using Novel Bonobo Optimizer. Sustainability, 2022, 14, 1533.	3.2	25

#	Article	IF	Citations
19	Dynamic global power extraction from partially shaded photovoltaic using deep recurrent neural network and improved PSO techniques. International Transactions on Electrical Energy Systems, 2019, 29, e12061.	1.9	23
20	Wind energy assessment for five locations in Saudi Arabia. Journal of Renewable and Sustainable Energy, 2012, 4, 022702.	2.0	17
21	Maximum Power Extraction from the Photovoltaic System Under Partial Shading Conditions. Green Energy and Technology, 2020, , 107-129.	0.6	17
22	A novel severity performance index for optimal allocation and sizing of photovoltaic distributed generations. Energy Reports, 2020, 6, 2180-2190.	5.1	16
23	Techno-economic assessment for energy transition from diesel-based to hybrid energy system-based off-grids in Saudi Arabia. Energy Transitions, 2020, 4, 31-43.	3.6	16
24	Cuckoo Search Combined with PID Controller for Maximum Power Extraction of Partially Shaded Photovoltaic System. Energies, 2022, 15, 2513.	3.1	16
25	Parameter Estimation of Photovoltaic Cell/Modules Using Bonobo Optimizer. Energies, 2022, 15, 140.	3.1	16
26	Techno-Economic Evaluation of Hybrid Energy Systems Using Artificial Ecosystem-Based Optimization with Demand Side Management. Electronics (Switzerland), 2022, 11, 204.	3.1	15
27	Proton Exchange Membrane Fuel Cell Parameter Extraction Using a Supply–Demand-Based Optimization Algorithm. Processes, 2021, 9, 1416.	2.8	14
28	A novel sizing inherits allocation strategy of renewable distributed generations using crow search combined with particle swarm optimization algorithm. IET Renewable Power Generation, 2021, 15, 1436-1450.	3.1	10
29	Polymeric Insulator Conditions Estimation by Using Leakage Current Characteristics Based on Simulation and Experimental Investigation. Polymers, 2022, 14, 737.	4.5	10
30	Hardware-In-the-Loop Validation of Direct MPPT Based Cuckoo Search Optimization for Partially Shaded Photovoltaic System. Electronics (Switzerland), 2022, 11, 1655.	3.1	10
31	Simulations and dSPACE Real-Time Implementation of Photovoltaic Global Maximum Power Extraction under Partial Shading. Sustainability, 2020, 12, 3652.	3.2	9
32	Maximum power extraction from grid-connected PV system. , 2017, , .		8
33	Maximum Power Extraction from Utility-Interfaced Wind Turbines. , 0, , .		7
34	Smart maximum power extraction for wind energy systems. , 2015, , .		7
35	Rub-Impact Force Induces Periodic, Quasiperiodic, and Chaotic Motions of a Controlled Asymmetric Rotor System. Shock and Vibration, 2021, 2021, 1-27.	0.6	7
36	A Novel Single-Input-Multi-Output Converter for Flexible-Order Power-Distributive With MPPT Capability. IEEE Access, 2021, 9, 131020-131032.	4.2	7

#	Article	IF	Citations
37	Efficient solution of the DC-link hard switching inverter of the PV system. Journal of King Saud University, Engineering Sciences, 2020, 32, 425-431.	2.0	6
38	PV Characteristics, Performance and Modelling. Green Energy and Technology, 2020, , 31-63.	0.6	6
39	A Novel Sooty Terns Algorithm for Deregulated MPC-LFC Installed in Multi-Interconnected System with Renewable Energy Plants. Energies, 2021, 14, 5393.	3.1	6
40	Optimal Sizing of a Hybrid Renewable Photovoltaic-Wind System-Based Microgrid Using Harris Hawk Optimizer. International Journal of Photoenergy, 2022, 2022, 1-13.	2.5	3
41	Energy Conservation Measures and Value Engineering for Small Microgrid: New Hospital as a Case Study. Sustainability, 2022, 14, 2390.	3.2	2