

# Hassan M H Farh

## List of Publications by Year in descending order

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41  
papers

1,206  
citations

471509

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395702

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811  
citing authors

#	ARTICLE	IF	CITATIONS
1	Techno-Economic Evaluation of Hybrid Energy Systems Using Artificial Ecosystem-Based Optimization with Demand Side Management. <i>Electronics (Switzerland)</i> , 2022, 11, 204.	3.1	15
2	Technical and Economic Evaluation for Off-Grid Hybrid Renewable Energy System Using Novel Bonobo Optimizer. <i>Sustainability</i> , 2022, 14, 1533.	3.2	25
3	Energy Conservation Measures and Value Engineering for Small Microgrid: New Hospital as a Case Study. <i>Sustainability</i> , 2022, 14, 2390.	3.2	2
4	Polymeric Insulator Conditions Estimation by Using Leakage Current Characteristics Based on Simulation and Experimental Investigation. <i>Polymers</i> , 2022, 14, 737.	4.5	10
5	Cuckoo Search Combined with PID Controller for Maximum Power Extraction of Partially Shaded Photovoltaic System. <i>Energies</i> , 2022, 15, 2513.	3.1	16
6	Parameter Estimation of Photovoltaic Cell/Modules Using Bonobo Optimizer. <i>Energies</i> , 2022, 15, 140.	3.1	16
7	Hardware-In-the-Loop Validation of Direct MPPT Based Cuckoo Search Optimization for Partially Shaded Photovoltaic System. <i>Electronics (Switzerland)</i> , 2022, 11, 1655.	3.1	10
8	Optimal Sizing of a Hybrid Renewable Photovoltaic-Wind System-Based Microgrid Using Harris Hawk Optimizer. <i>International Journal of Photoenergy</i> , 2022, 2022, 1-13.	2.5	3
9	Optimal sizing of autonomous hybrid energy system using supply&€demand&€based optimization algorithm. <i>International Journal of Energy Research</i> , 2021, 45, 605-625.	4.5	43
10	A novel sizing inherits allocation strategy of renewable distributed generations using crow search combined with particle swarm optimization algorithm. <i>IET Renewable Power Generation</i> , 2021, 15, 1436-1450.	3.1	10
11	A Novel Sooty Terns Algorithm for Deregulated MPC-LFC Installed in Multi-Interconnected System with Renewable Energy Plants. <i>Energies</i> , 2021, 14, 5393.	3.1	6
12	Proton Exchange Membrane Fuel Cell Parameter Extraction Using a Supply&€Demand-Based Optimization Algorithm. <i>Processes</i> , 2021, 9, 1416.	2.8	14
13	Rub-Impact Force Induces Periodic, Quasiperiodic, and Chaotic Motions of a Controlled Asymmetric Rotor System. <i>Shock and Vibration</i> , 2021, 2021, 1-27.	0.6	7
14	A Novel Single-Input-Multi-Output Converter for Flexible-Order Power-Distributive With MPPT Capability. <i>IEEE Access</i> , 2021, 9, 131020-131032.	4.2	7
15	Efficient solution of the DC-link hard switching inverter of the PV system. <i>Journal of King Saud University, Engineering Sciences</i> , 2020, 32, 425-431.	2.0	6
16	PV Characteristics, Performance and Modelling. <i>Green Energy and Technology</i> , 2020, , 31-63.	0.6	6
17	Maximum Power Extraction from the Photovoltaic System Under Partial Shading Conditions. <i>Green Energy and Technology</i> , 2020, , 107-129.	0.6	17
18	Photovoltaic maximum power point tracking under dynamic partial shading changes by novel adaptive particle swarm optimization strategy. <i>Transactions of the Institute of Measurement and Control</i> , 2020, 42, 104-115.	1.7	31

#	ARTICLE	IF	CITATIONS
19	Novel Manta Rays Foraging Optimization Algorithm Based Optimal Control for Grid-Connected PV Energy System. IEEE Access, 2020, 8, 187276-187290.	4.2	38
20	Techno-Economic Optimization of Small-Scale Hybrid Energy Systems Using Manta Ray Foraging Optimizer. Electronics (Switzerland), 2020, 9, 2045.	3.1	27
21	A novel severity performance index for optimal allocation and sizing of photovoltaic distributed generations. Energy Reports, 2020, 6, 2180-2190.	5.1	16
22	Simulations and dSPACE Real-Time Implementation of Photovoltaic Global Maximum Power Extraction under Partial Shading. Sustainability, 2020, 12, 3652.	3.2	9
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	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
25	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
26	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
27	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
28	Grade point average assessment for metaheuristic GMPP techniques of partial shaded PV systems. IET Renewable Power Generation, 2019, 13, 1215-1231.	3.1	35
29	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
30	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
31	Maximum Power Extraction from a Partially Shaded PV System Using an Interleaved Boost Converter. Energies, 2018, 11, 2543.	3.1	44
32	A novel evaluation index for the photovoltaic maximum power point tracker techniques. Solar Energy, 2018, 174, 940-956.	6.1	69
33	Hybrid PSO-FLC for dynamic global peak extraction of the partially shaded photovoltaic system. PLoS ONE, 2018, 13, e0206171.	2.5	45
34	Maximum power extraction from grid-connected PV system. , 2017, , .		8
35	Smart maximum power extraction for wind energy systems. , 2015, , .		7
36	Energy management and renewable energy integration in smart grid system. , 2015, , .		30

#	ARTICLE	IF	CITATIONS
37	Maximum power extraction from wind energy system based on fuzzy logic control. Electric Power Systems Research, 2013, 97, 144-150.	3.6	142
38	Fuzzy logic control of wind energy conversion system. Journal of Renewable and Sustainable Energy, 2013, 5, .	2.0	28
39	Wind energy assessment for five locations in Saudi Arabia. Journal of Renewable and Sustainable Energy, 2012, 4, 022702.	2.0	17
40	Maximum Power Extraction from Utility-Interfaced Wind Turbines. , 0, , .		7
41	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