

Saad Motahhir

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,733
citations

304743
22
h-index

315739
38
g-index

77
all docs

77
docs citations

77
times ranked

981
citing authors

#	ARTICLE	IF	CITATIONS
1	A new model for a photovoltaic panel using Proteus software tool under arbitrary environmental conditions. Journal of Cleaner Production, 2022, 333, 130074.	9.3	15
2	Twelve sectors DTC strategy of IM for PV water pumping system. Materials Today: Proceedings, 2022, 51, 2081-2090.	1.8	3
3	Improvement of PMSG-Based Wind Energy Conversion System Using Developed Sliding Mode Control. Energies, 2022, 15, 1625.	3.1	26
4	Design and processor in the loop implementation of an improved control for IM driven solar PV fed water pumping system. Scientific Reports, 2022, 12, 4688.	3.3	5
5	Internet of vehicles: concept, process, security aspects and solutions. Multimedia Tools and Applications, 2022, 81, 16563-16587.	3.9	17
6	FPGA in the Loop Implementation for Observer Sliding Mode Control of DFIG-Generators for Wind Turbines. Electronics (Switzerland), 2022, 11, 116.	3.1	20
7	Investigation of Partial Shading Scenarios on a Photovoltaic Array's Characteristics. Electronics (Switzerland), 2022, 11, 96.	3.1	9
8	Improved TCT topology for shaded photovoltaic arrays. Energy Reports, 2022, 8, 5943-5956.	5.1	11
9	Improving the Maximum Power Extraction from Wind Turbines Using a Second-Generation CRONE Controller. Energies, 2022, 15, 3644.	3.1	10
10	A novel hybrid GWO-PSO-based maximum power point tracking for photovoltaic systems operating under partial shading conditions. Scientific Reports, 2022, 12, .	3.3	30
11	A fast and accurate sine-cosine MPPT algorithm under partial shading with implementation using arduino board. Cleaner Engineering and Technology, 2022, 9, 100535.	4.0	10
12	Robust sliding-Backstepping mode control of a wind system based on the DFIG generator. Scientific Reports, 2022, 12, .	3.3	29
13	Enhanced energy output from a PV system under partial shaded conditions through grey wolf optimizer. Cleaner Engineering and Technology, 2022, 9, 100533.	4.0	16
14	Optimization and implementation of a photovoltaic pumping system using the sine-cosine algorithm. Engineering Applications of Artificial Intelligence, 2022, 114, 105104.	8.1	13
15	Optimal Energy Harvesting From a Multistrings PV Generator Based on Artificial Bee Colony Algorithm. IEEE Systems Journal, 2021, 15, 4137-4144.	4.6	39
16	Design and construction of a test bench to investigate the potential of floating PV systems. Journal of Cleaner Production, 2021, 278, 123917.	9.3	59
17	Internet of Things-Based Solar Tracker System. Green Energy and Technology, 2021, , 75-95.	0.6	2
18	Supervision and Monitoring of Photovoltaic Systems Using Siemens PLC and HMI. Lecture Notes in Networks and Systems, 2021, , 1147-1157.	0.7	4

#	ARTICLE	IF	CITATIONS
19	Global Maximum Power Point Tracking Using Genetic Algorithm Combined with PSO Tuned PID Controller. Lecture Notes in Networks and Systems, 2021, , 1171-1180.	0.7	0
20	Embedded Implementation of Improved IFOC for Solar Photovoltaic Water Pumping System Using dSpace. Green Energy and Technology, 2021, , 435-456.	0.6	3
21	PV Energy Generation and IoT Power Consumption for Telecom Networks in Remote Areas. Technology and Economics of Smart Grids and Sustainable Energy, 2021, 6, 1.	2.6	4
22	An improved control strategy for charging solar batteries in off-grid photovoltaic systems. Solar Energy, 2021, 220, 927-941.	6.1	28
23	Performance Analysis and Techno-Economic Optimization of Green Energy Systems for Remote Areas in the Maghreb. Technology and Economics of Smart Grids and Sustainable Energy, 2021, 6, 1.	2.6	4
24	Intelligent control of induction motor for photovoltaic water pumping system. SN Applied Sciences, 2021, 3, 1.	2.9	10
25	Comparative study with practical validation of photovoltaic monocrystalline module for single and double diode models. Scientific Reports, 2021, 11, 19153.	3.3	19
26	Rooted Tree Optimization for the Backstepping Power Control of a Doubly Fed Induction Generator Wind Turbine: dSPACE Implementation. IEEE Access, 2021, 9, 26512-26522.	4.2	38
27	Development of an Improved GMPPT Based on Scanning Method for PV System Operating under a Dynamic Partial Shading Conditions. Technology and Economics of Smart Grids and Sustainable Energy, 2021, 6, 1.	2.6	6
28	Experimental Validation of Predictive Current Control for DFIG: FPGA Implementation. Electronics (Switzerland), 2021, 10, 2670.	3.1	19
29	Purely mechanically driven door-controlled disinfection device for automatic COVID-19. Euro-Mediterranean Journal for Environmental Integration, 2021, 6, 75.	1.3	0
30	Improved Hybrid Parameters Extraction of a PV Module Using a Moth Flame Algorithm. Electronics (Switzerland), 2021, 10, 2798.	3.1	7
31	MPPT Techniques Investigation in Photovoltaic System. , 2021, , .		3
32	Optimization for a Photovoltaic Pumping System Using Indirect Field Oriented Control of Induction Motor. Electronics (Switzerland), 2021, 10, 3076.	3.1	9
33	Implementation and Validation of Hybrid Control for a DFIG Wind Turbine Using an FPGA Controller Board. Electronics (Switzerland), 2021, 10, 3154.	3.1	12
34	The most used MPPT algorithms: Review and the suitable low-cost embedded board for each algorithm. Journal of Cleaner Production, 2020, 246, 118983.	9.3	217
35	Proposed Design of Walk-Through Gate (WTG): Mitigating the Effect of COVID-19. Applied System Innovation, 2020, 3, 41.	4.6	11
36	Preliminary Design of a Smart Wristband Disinfectant to Help in Covid-19 Fight. Inventions, 2020, 5, 32.	2.5	10

#	ARTICLE	IF	CITATIONS
37	High-Performance Standalone Photovoltaic Water Pumping System Using Induction Motor. International Journal of Photoenergy, 2020, 2020, 1-13.	2.5	17
38	Preliminary design of an innovative, simple, and easy-to-build portable ventilator for COVID-19 patients. Euro-Mediterranean Journal for Environmental Integration, 2020, 5, 23.	1.3	35
39	Global MPPT of photovoltaic system based on scanning method under partial shading condition. SN Applied Sciences, 2020, 2, 1.	2.9	8
40	Optimal Control of Induction Motor for Photovoltaic Water Pumping System. Technology and Economics of Smart Grids and Sustainable Energy, 2020, 5, 1.	2.6	9
41	Trusted Simulation Using Proteus Model for a PV System: Test Case of an Improved HC MPPT Algorithm. Energies, 2020, 13, 1943.	3.1	22
42	Performance analysis of a robust adaptive fuzzy logic controller for wind turbine power limitation. Journal of Cleaner Production, 2020, 265, 121659.	9.3	16
43	DSPACE-based implementation for observer backstepping power control of DFIG wind turbine. IET Electric Power Applications, 2020, 14, 2395-2403.	1.8	23
44	Design of system-on-chip for real-time nanosatellite photovoltaic curves telemetry. , 2020, , .		0
45	Erratum to "Modeling of Photovoltaic System with Modified Incremental Conductance Algorithm for Fast Changes of Irradiance". International Journal of Photoenergy, 2019, 2019, 1-2.	2.5	1
46	Optimization and control of water pumping PV systems using fuzzy logic controller. Energy Reports, 2019, 5, 853-865.	5.1	48
47	Improvement control of photovoltaic based water pumping system without energy storage. Solar Energy, 2019, 190, 319-328.	6.1	29
48	Parabolic bifacial solar panel with the cooling system: concept and challenges. SN Applied Sciences, 2019, 1, 1.	2.9	7
49	Modern improvement techniques of direct torque control for induction motor drives - a review. Protection and Control of Modern Power Systems, 2019, 4, .	7.5	76
50	Improved DTC strategy of doubly fed induction motor using fuzzy logic controller. Energy Reports, 2019, 5, 271-279.	5.1	69
51	Fuzzy-PI Controller for Photovoltaic Water Pumping Systems. , 2019, , .		3
52	Design and Embedded Implementation of a Power Management Controller for Wind-PV-Diesel Microgrid System. International Journal of Photoenergy, 2019, 2019, 1-16.	2.5	24
53	Open hardware/software test bench for solar tracker with virtual instrumentation. Sustainable Energy Technologies and Assessments, 2019, 31, 9-16.	2.7	30
54	A simple and low-cost active dual-axis solar tracker. Energy Science and Engineering, 2018, 6, 607-620.	4.0	51

#	ARTICLE	IF	CITATIONS
55	A low-cost PV Emulator for testing MPPT algorithm. IOP Conference Series: Earth and Environmental Science, 2018, 161, 012018.	0.3	6
56	Development of a low-cost PV system using an improved INC algorithm and a PV panel Proteus model. Journal of Cleaner Production, 2018, 204, 355-365.	9.3	60
57	Real-time virtual instrumentation of Arduino and LabVIEW based PV panel characteristics. IOP Conference Series: Earth and Environmental Science, 2018, 161, 012019.	0.3	17
58	Modeling of Photovoltaic System with Modified Incremental Conductance Algorithm for Fast Changes of Irradiance. International Journal of Photoenergy, 2018, 2018, 1-13.	2.5	114
59	Low-cost virtual instrumentation of PV panel characteristics using Excel and Arduino in comparison with traditional instrumentation. Renewables: Wind, Water, and Solar, 2018, 5, .	3.7	42
60	Photovoltaic system with quantitative comparative between an improved MPPT and existing INC and P&O methods under fast varying of solar irradiation. Energy Reports, 2018, 4, 341-350.	5.1	89
61	Study of a Low-Cost PV Emulator for Testing MPPT Algorithm Under Fast Irradiation and Temperature Change. Technology and Economics of Smart Grids and Sustainable Energy, 2018, 3, 1.	2.6	31
62	MIL and SIL and PIL tests for MPPT algorithm. Cogent Engineering, 2017, 4, 1378475.	2.2	57
63	Comparison between Kalman filter and incremental conductance algorithm for optimizing photovoltaic energy. Renewables: Wind, Water, and Solar, 2017, 4, .	3.7	10
64	Sustainable Solution for Crude Oil and Natural Gas Separation using Concentrated Solar Power Technology. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012134.	0.6	8
65	Modeling of Photovoltaic Panel by using Proteus. Journal of Engineering Science and Technology Review, 2017, 10, 8-13.	0.4	39
66	Determination of the maximum power point in a photovoltaic panel using Kalman Filter on the environment PSIM. , 2016, , .		4
67	Shading Effect to Energy Withdrawn from the Photovoltaic Panel and Implementation of DMPPT Using C Language. International Review of Automatic Control, 2016, 9, 88.	0.3	27
68	Proposal and implementation of a novel perturb and observe algorithm using embedded software. , 2015, , .		21
69	Contribution to the Optimization of Energy Withdrawn from a PV Panel Using An Embedded System. SSRN Electronic Journal, 0, , .	0.4	1
70	Blockchain Technology for a Safe and Transparent Covid-19 Vaccination. Journal of ICT Standardization, 0, , .	0.6	10