

Ahmed Bouraiou

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,279
citations

471509

17
h-index

395702

33
g-index

48
all docs

48
docs citations

48
times ranked

873
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling the Effect of PV Module Orientation on the Encapsulant Browning Degradation Rate in Algeria Region. IEEE Journal of Photovoltaics, 2022, 12, 274-284.	2.5	2
2	A Temperature Supervision Web Application Based on Wireless Wi-Fi ESP8266 Microcontroller and LM 35 Sensor. Lecture Notes in Networks and Systems, 2022, , 385-394.	0.7	1
3	Performance analysis of an experimental and simulated grid connected photovoltaic system in southwest Algeria. International Journal of Energy and Environmental Engineering, 2022, 13, 831-851.	2.5	11
4	Photovoltaic energy generation systems monitoring and performance optimization using wireless sensors network and metaheuristics. Sustainable Computing: Informatics and Systems, 2022, 35, 100684.	2.2	8
5	Frequency Dependent Capacitance and Conductanceâ€“Voltage Characteristics of Nitride GaAs Schottky Diode. Semiconductors, 2021, 55, 51-55.	0.5	1
6	ANFIS-BASED MAXIMUM POWER POINT TRACKING USING GENETIC ALGORITHM TUNED FRACTIONAL-ORDER PROPORTIONAL-INTEGRAL-DERIVATIVE CONTROLLER AND ON-SITE MEASURED CLIMATIC DATA. International Journal of Energy for A Clean Environment, 2021, 22, 63-82.	1.1	7
7	Supervision and Monitoring of Photovoltaic Systems Using Siemens PLC and HMI. Lecture Notes in Networks and Systems, 2021, , 1147-1157.	0.7	4
8	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
9	Tree-based ensemble methods for predicting the module temperature of a grid-tied photovoltaic system in the desert. International Journal of Green Energy, 2021, 18, 1430-1440.	3.8	14
10	Photovoltaic output power performance assessment and forecasting: Impact of meteorological variables. Solar Energy, 2021, 220, 745-757.	6.1	45
11	Development of autonomous monitoring and performance evaluation system of grid-tied photovoltaic station. International Journal of Hydrogen Energy, 2021, 46, 30267-30287.	7.1	15
12	Detecting Partial Shading in Grid-Connected PV Station Using Random Forest Classifier. Lecture Notes in Networks and Systems, 2021, , 88-95.	0.7	9
13	Implementation of MPPT Methods for improving the Performance of Photovoltaic Systems. , 2021, , .		3
14	Investigation and Prototyping Implementation of a Novel Solar Water Collector Based on Used Engine Oil as HTF. Lecture Notes in Electrical Engineering, 2021, , 779-789.	0.4	0
15	Solar Energy Conversion Systems Optimization using Novel Jellyfish based Maximum Power Tracking Strategy. Procedia Computer Science, 2021, 194, 80-88.	2.0	9
16	Status of renewable energy potential and utilization in Algeria. Journal of Cleaner Production, 2020, 246, 119011.	9.3	82
17	Novel predictive features using a wrapper model for rolling bearing fault diagnosis based on vibration signal analysis. International Journal of Advanced Manufacturing Technology, 2020, 106, 3409-3435.	3.0	50
18	A prediction models for estimating global solar radiation and evaluation meteorological effect on solar radiation potential under several weather conditions at the surface of Adrar environment. Measurement: Journal of the International Measurement Confederation, 2020, 152, 107348.	5.0	38

#	ARTICLE	IF	CITATIONS
19	Quantum efficiency improvement depending on the oxygen doping density, temperature, and layer thicknesses of an intermediate band solar cell based on ZnTe:O: Numerical analysis. <i>Optik</i> , 2020, 224, 165432.	2.9	7
20	ANN based MPPT Algorithm Design using Real Operating Climatic Condition. , 2020, , .		24
21	Experimental investigation of solar water heater equipped with a solar collector using waste oil as absorber and working fluid. <i>Solar Energy</i> , 2020, 199, 630-644.	6.1	31
22	Dynamic performance evaluation and improvement of PV energy generation systems using Moth Flame Optimization with combined fractional order PID and sliding mode controller. <i>Solar Energy</i> , 2020, 199, 411-424.	6.1	43
23	Fuzzy Logic based Adaptive Step Hill Climbing MPPT Algorithm for PV Energy Generation Systems. , 2020, , .		13
24	Practical Implementation of Computational Algorithms for Efficient Power Conversion in Photovoltaic Energy Generation Systems. , 2020, , .		6
25	A PV-UPS Developed For The Monitoring Of PV Systems. , 2020, , .		2
26	Smooth Sliding Mode-Based MPPT Algorithm for Photovoltaic Applications. , 2019, , .		3
27	A Demonstrative Overview of Photovoltaic Systems Faults. , 2019, , .		4
28	Energy and economic efficiency performance assessment of a 28kWp photovoltaic grid-connected system under desertic weather conditions in Algerian Sahara. <i>Renewable Energy</i> , 2019, 143, 1318-1330.	8.9	52
29	Effect of sand dust accumulation on photovoltaic performance in the Saharan environment: southern Algeria (Adrar). <i>Environmental Science and Pollution Research</i> , 2019, 26, 259-268.	5.3	36
30	Experimental investigation of observed defects in crystalline silicon PV modules under outdoor hot dry climatic conditions in Algeria. <i>Solar Energy</i> , 2018, 159, 475-487.	6.1	87
31	A Fuzzy Logic MPPT For Three-Phase Grid-Connected PV Inverter. , 2018, , .		5
32	Degradation Analysis of M-C-Si PV Modules After Long Term Exposure Under Desert Climate. , 2018, , .		3
33	Realization and modeling of multilayer antireflection coatings for solar cells application. <i>Materials Research Express</i> , 2018, 5, 065515.	1.6	15
34	Importance cleaning of PV modules for grid-connected PV systems in a desert environment. , 2018, , .		14
35	Analytical assessment of the outdoor performance and efficiency of grid-tied photovoltaic system under hot dry climate in the south of Algeria. <i>Energy Conversion and Management</i> , 2018, 171, 778-786.	9.2	58
36	Experimental evaluation of the performance and degradation of single crystalline silicon photovoltaic modules in the Saharan environment. <i>Energy</i> , 2017, 132, 22-30.	8.8	60

#	ARTICLE	IF	CITATIONS
37	Development of an ontology-based generic optimisation tool for the design of hybrid energy systems. International Journal of Computer Applications in Technology, 2017, 55, 232.	0.5	20
38	Impact of partial shading and PV array power on the performance of grid connected PV station. , 2017, , .		12
39	Impact of dust accumulation on PV panel performance in the Saharan region. , 2017, , .		16
40	Development of an ontology-based generic optimisation tool for the design of hybrid energy systems. International Journal of Computer Applications in Technology, 2017, 55, 232.	0.5	1
41	Study of hydrogen production by solar energy as tool of storing and utilization renewable energy for the desert areas. International Journal of Hydrogen Energy, 2016, 41, 20788-20806.	7.1	43
42	Monitoring and performance analysis of grid connected photovoltaic under different climatic conditions in south Algeria. Energy Conversion and Management, 2016, 130, 200-206.	9.2	88
43	Simulation of High Efficiency CIGS Solar Cells with SCAPS-1D Software. Energy Procedia, 2015, 74, 736-744.	1.8	162
44	Modeling and Simulation of Photovoltaic Module and Array Based on One and Two Diode Model Using Matlab/Simulink. Energy Procedia, 2015, 74, 864-877.	1.8	59
45	Analysis and evaluation of the impact of climatic conditions on the photovoltaic modules performance in the desert environment. Energy Conversion and Management, 2015, 106, 1345-1355.	9.2	112
46	Optimal auto-tuning of fractional order PI ^λ D ^μ controller for a DC motor speed using Extremum seeking. , 2014, , .		0