

Ahmed Bouraiou

List of Publications by Year in descending order

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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	Simulation of High Efficiency CIGS Solar Cells with SCAPS-1D Software. Energy Procedia, 2015, 74, 736-744.	1.8	162
2	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
3	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
4	Experimental investigation of observed defects in crystalline silicon PV modules under outdoor hot dry climatic conditions in Algeria. Solar Energy, 2018, 159, 475-487.	6.1	87
5	Status of renewable energy potential and utilization in Algeria. Journal of Cleaner Production, 2020, 246, 119011.	9.3	82
6	Experimental evaluation of the performance and degradation of single crystalline silicon photovoltaic modules in the Saharan environment. Energy, 2017, 132, 22-30.	8.8	60
7	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
8	Analytical assessment of the outdoor performance and efficiency of grid-tied photovoltaic system under hot dry climate in the south of Algeria. Energy Conversion and Management, 2018, 171, 778-786.	9.2	58
9	Energy and economic efficiency performance assessment of a 28kWp photovoltaic grid-connected system under desertic weather conditions in Algerian Sahara. Renewable Energy, 2019, 143, 1318-1330.	8.9	52
10	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
11	Photovoltaic output power performance assessment and forecasting: Impact of meteorological variables. Solar Energy, 2021, 220, 745-757.	6.1	45
12	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
13	Dynamic performance evaluation and improvement of PV energy generation systems using Moth Flame Optimization with combined fractional order PID and sliding mode controller. Solar Energy, 2020, 199, 411-424.	6.1	43
14	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
15	Effect of sand dust accumulation on photovoltaic performance in the Saharan environment: southern Algeria (Adrar). Environmental Science and Pollution Research, 2019, 26, 259-268.	5.3	36
16	Experimental investigation of solar water heater equipped with a solar collector using waste oil as absorber and working fluid. Solar Energy, 2020, 199, 630-644.	6.1	31
17	ANN based MPPT Algorithm Design using Real Operating Climatic Condition. , 2020, , .		24
18	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

#	ARTICLE	IF	CITATIONS
19	Impact of dust accumulation on PV panel performance in the Saharan region. , 2017, , .		16
20	Realization and modeling of multilayer antireflection coatings for solar cells application. Materials Research Express, 2018, 5, 065515.	1.6	15
21	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
22	Importance cleaning of PV modules for grid-connected PV systems in a desert environment. , 2018, , .		14
23	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
24	Fuzzy Logic based Adaptive Step Hill Climbing MPPT Algorithm for PV Energy Generation Systems. , 2020, , .		13
25	Impact of partial shading and PV array power on the performance of grid connected PV station. , 2017, , .		12
26	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
27	Detecting Partial Shading in Grid-Connected PV Station Using Random Forest Classifier. Lecture Notes in Networks and Systems, 2021, , 88-95.	0.7	9
28	Solar Energy Conversion Systems Optimization using Novel Jellyfish based Maximum Power Tracking Strategy. Procedia Computer Science, 2021, 194, 80-88.	2.0	9
29	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
30	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. Optik, 2020, 224, 165432.	2.9	7
31	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
32	Practical Implementation of Computational Algorithms for Efficient Power Conversion in Photovoltaic Energy Generation Systems. , 2020, , .		6
33	A Fuzzy Logic MPPT For Three-Phase Grid-Connected PV Inverter. , 2018, , .		5
34	A Demonstrative Overview of Photovoltaic Systems Faults. , 2019, , .		4
35	Supervision and Monitoring of Photovoltaic Systems Using Siemens PLC and HMI. Lecture Notes in Networks and Systems, 2021, , 1147-1157.	0.7	4
36	Degradation Analysis of M-C-Si PV Modules After Long Term Exposure Under Desert Climate. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
37	Smooth Sliding Mode-Based MPPT Algorithm for Photovoltaic Applications. , 2019, , .		3
38	Implementation of MPPT Methods for improving the Performance of Photovoltaic Systems. , 2021, , .		3
39	A PV-UPS Developed For The Monitoring Of PV Systems. , 2020, , .		2
40	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
41	Frequency Dependent Capacitance and Conductanceâ€“Voltage Characteristics of Nitride GaAs Schottky Diode. Semiconductors, 2021, 55, 51-55.	0.5	1
42	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
43	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
44	Optimal auto-tuning of fractional order PI ^{&#x03BB;} D ^{&#x03BC;} controller for a DC motor speed using Extremum seeking. , 2014, , .		0
45	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
46	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