

Petru Adrian Cotfas

List of Publications by Year in descending order

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69
papers

847
citations

566801

15
h-index

525886

27
g-index

69
all docs

69
docs citations

69
times ranked

700
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods to determine the dc parameters of solar cells: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 28, 588-596.	8.2	143
2	Study of Temperature Coefficients for Parameters of Photovoltaic Cells. <i>International Journal of Photoenergy</i> , 2018, 2018, 1-12.	1.4	89
3	Experimental and numerical study on the transient behavior of multi-junction solar cell-thermoelectric generator hybrid system. <i>Energy Conversion and Management</i> , 2019, 184, 448-455.	4.4	76
4	Experimental and numerical investigation of hybrid concentrated photovoltaic “Thermoelectric module under low solar concentration. <i>Energy</i> , 2018, 159, 1123-1131.	4.5	60
5	Application of successive discretization algorithm for determining photovoltaic cells parameters. <i>Energy Conversion and Management</i> , 2019, 196, 545-556.	4.4	41
6	Experimental investigation on spectrum beam splitting photovoltaic“thermoelectric generator under moderate solar concentrations. <i>Energy</i> , 2022, 238, 121988.	4.5	38
7	Methods and techniques to determine the dynamic parameters of solar cells: Review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 61, 213-221.	8.2	31
8	Response of thermoelectric generators to Bi ₂ Te ₃ and Zn ₄ Sb ₃ energy harvester materials under variant solar radiation. <i>Renewable Energy</i> , 2020, 146, 2488-2498.	4.3	25
9	Characterization of Photovoltaic“Thermoelectric“Solar Collector Hybrid Systems in Natural Sunlight Conditions. <i>Journal of Energy Engineering - ASCE</i> , 2017, 143, .	1.0	24
10	Critical factors and parameters for hybrid Photovoltaic-Thermoelectric systems; review. <i>Applied Thermal Engineering</i> , 2022, 215, 118977.	3.0	24
11	Multiconcept Methods to Enhance Photovoltaic System Efficiency. <i>International Journal of Photoenergy</i> , 2019, 2019, 1-14.	1.4	20
12	Solar Cell Capacitance Determination Based on an RLC Resonant Circuit. <i>Energies</i> , 2018, 11, 672.	1.6	18
13	Transient behavior of concentrated solar oxide thermoelectric generator. <i>Energy</i> , 2019, 168, 823-832.	4.5	18
14	Design and implementation of RELab system to study the solar and wind energy. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 93, 94-101.	2.5	17
15	Monthly average daily global and diffuse solar radiation based on sunshine duration and clearness index for Brasov, Romania. <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, .	0.8	16
16	Comprehensive Review of Methods and Instruments for Photovoltaic“Thermoelectric Generator Hybrid System Characterization. <i>Energies</i> , 2020, 13, 6045.	1.6	16
17	Current-voltage characteristic raising techniques for solar cells. comparisons and applications. , 2010, , .		14
18	Investigation of the photovoltaic cell/ thermoelectric element hybrid system performance. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 133, 012037.	0.3	13

#	ARTICLE	IF	CITATIONS
19	Accelerated Life Test for Photovoltaic Cells Using Concentrated Light. International Journal of Photoenergy, 2016, 2016, 1-7.	1.4	11
20	Remote SoC/FPGA platform configuration for cloud applications. , 2014, , .		10
21	Management and Performance Control Analysis of Hybrid Photovoltaic Energy Storage System under Variable Solar Irradiation. Energies, 2020, 13, 3043.	1.6	10
22	Using the genetic algorithm to determine the parameters of photovoltaic cells and panels. , 2018, , .		9
23	Performance evaluation of a high-temperature thermoelectric generator under different solar concentrations. Energy Procedia, 2018, 147, 624-630.	1.8	9
24	Advancements in Photovoltaic Cell and System Technologies. International Journal of Photoenergy, 2019, 2019, 1-2.	1.4	9
25	Study of combined photovoltaic cell/thermoelectric element/solar collector in medium concentrated light. , 2017, , .		8
26	The methods to determine the series resistance and the ideality factor of diode for solar cells-review. , 2012, , .		6
27	Ageing of photovoltaic cells under Concentrated Light. , 2015, , .		6
28	Comparative Study of Two Commercial Photovoltaic Panels under Natural Sunlight Conditions. International Journal of Photoenergy, 2019, 2019, 1-10.	1.4	6
29	Calculation of Seven Photovoltaic Cells Parameters Using Parallelized Successive Discretization Algorithm. International Journal of Photoenergy, 2020, 2020, 1-13.	1.4	6
30	Analytical versus Metaheuristic Methods to Extract the Photovoltaic Cells and Panel Parameters. International Journal of Photoenergy, 2021, 2021, 1-17.	1.4	6
31	An Experimental Study on Transient Response of a Hybrid Thermoelectricâ€“Photovoltaic System with Beam Splitter. Energies, 2021, 14, 8129.	1.6	6
32	Multifunction iLab implemented laboratory. , 2011, , .		5
33	Virtual robot arm controlled by hand gestures via Leap Motion Sensor. IOP Conference Series: Materials Science and Engineering, 2019, 514, 012021.	0.3	5
34	FPGA LabVIEW Programming, Monitoring and Remote Control. International Journal of Online and Biomedical Engineering, 2009, 5, 34.	0.9	5
35	RELab - virtual laboratory of the renewable energy. , 2013, , .		4
36	A Simple Method to Increase the Amount of Energy Produced by the Photovoltaic Panels. International Journal of Photoenergy, 2014, 2014, 1-6.	1.4	4

#	ARTICLE	IF	CITATIONS
37	Simulated, hands-on and remote laboratories for studying the solar cells. , 2015, , .		4
38	PV cells test bench system with remote access trough Internet. , 2012, , .		3
39	Modelling and PSPICE simulation oi a photovoltaic/thermoelectric system. , 2016, , .		3
40	A brain-computer interface based on the integration of NI myRIO development device and NeuroSky Mindwave headset. IOP Conference Series: Materials Science and Engineering, 0, 444, 042014.	0.3	3
41	WIRELESS SYSTEM FOR MONITORING THE SOLAR RADIATION. Environmental Engineering and Management Journal, 2011, 10, 1133-1137.	0.2	3
42	Tensile testing machine based on virtual instrumentation. , 2012, , .		2
43	Mobile virtual laboratory for renewable energy. , 2013, , .		2
44	System design to study hybrid systems in concentrated light using Fresnel lens. , 2017, , .		2
45	Virtual keyboard based on a brain-computer interface. IOP Conference Series: Materials Science and Engineering, 2019, 514, 012020.	0.3	2
46	Solar Hybrid System Component Study in Low Concentrated Sunlight. International Journal of Photoenergy, 2021, 2021, 1-13.	1.4	2
47	The Wireless Albedometer. Journal of Engineering Science and Technology Review, 2012, 5, 35-37.	0.2	2
48	Energy balance for different positions of photovoltaic panels. , 2012, , .		1
49	The study of the photovoltaic cells parameters in concentrated sunlight. , 2014, , .		1
50	Graphical System Design approach in photovoltaic energy laboratories. , 2015, , .		1
51	FPGA-enabled hardware multitasking applications in energy harvesting laboratories. , 2016, , .		1
52	Implementing a remote laboratory on a chip. , 2017, , .		1
53	Determination of Technological Features of a Solar Photovoltaic Cell Made of Monocrystalline Silicon P⁺PNN⁺. International Journal of Photoenergy, 2019, 2019, 1-14.	1.4	1
54	REMOTE LABORATORIES BASED ON LABVIEW WEB SERVICES. , 2016, , .		1

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55	Web Development Techniques and Remote Laboratories. International Journal of Online and Biomedical Engineering, 2009, 5, 81.	0.9	1
56	Remote Laboratory in Photovoltaics. International Journal of Online and Biomedical Engineering, 2009, 5, 14.	0.9	1
57	Measurements in Concentrated Sun using a Remote Controlled Robot. International Journal of Online and Biomedical Engineering, 2013, 9, 50.	0.9	1
58	New Tools in Hardware and Software Design Applied for Remote Photovoltaic Laboratory. , 2014, , 1073-1092.		1
59	Methods of the quality assurance applied at the remote laboratory selection. , 2010, , .		0
60	Embedded system for mini solar vehicle. , 2012, , .		0
61	Tester for photovoltaic charger using NI cRIO. , 2012, , .		0
62	Remote experiment and correlation with innovation process. , 2012, , .		0
63	Quantitative approaches in remote experiment design. , 2012, , .		0
64	TRIZ method and remote engineering approach. , 2013, , .		0
65	Remote controlled robot for automatic measurements in concentrated sun. , 2013, , .		0
66	General physics remote laboratory based on the NI ELVIS platform and Moodle. , 2014, , .		0
67	Improvements on Photovoltaic Cells Test Bench System. Journal of Engineering Science and Technology Review, 2012, 5, 38-41.	0.2	0
68	Study of photovoltaic cell degradation under rapid light variation. , 2020, , .		0
69	Enhancing energy efficiency for photovoltaic cells using thermoelectric hybridization. , 2020, , .		0