

Roman Zaitsev

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

255
citations

933447

10
h-index

1125743

13
g-index

50
all docs

50
docs citations

50
times ranked

101
citing authors

#	ARTICLE	IF	CITATIONS
1	DC-DC Converter for High-Voltage Power Take-Off System of Solar Station. , 2019, , .		22
2	The influence of prolonged storage and forward-polarity voltage on the efficiency of CdS/CdTe-based film solar cells. Semiconductors, 2011, 45, 1505-1511.	0.5	15
3	Pulsed LED illuminator for carrier lifetime investigation. , 2015, , .		14
4	Operating Temperature Effect on the Thin Film Solar Cell Efficiency. Journal of Nano- and Electronic Physics, 2019, 11, 04029-1-04029-5.	0.5	14
5	Hybrid Solar Generating Module Development for High-Efficiency Solar Energy Station. Journal of Nano- and Electronic Physics, 2018, 10, 06017-1-06017-5.	0.5	14
6	Improving the Solar Collector Base Model for PVT System. Journal of Nano- and Electronic Physics, 2020, 12, 04028-1-04028-5.	0.5	14
7	Solar active Ag/ZnO nanostructured arrays obtained by a combination of electrochemical and chemical methods. Solar Energy, 2016, 136, 23-31.	6.1	13
8	Development of hybrid solar generating module for high-efficiency solar energy station. , 2017, , .		13
9	Physical and Technological Foundations of the «Chloride» Treatment of Cadmium Telluride Layers for Thin-film Photoelectric Converters. Journal of Nano- and Electronic Physics, 2018, 10, 03007-1-03007-7.	0.5	13
10	ADVANCED METHODS OF INCREASING AND MONITORING THE LIFETIME OF NONEQUILIBRIUM MINORITY CHARGE CARRIERS IN MASTER DIES FOR HIGH-PERFORMANCE SILICON SOLAR CELLS. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2010, 69, 441-450.	0.4	13
11	Flexible Solar Cells are Based on Underlying Layers of CdTe Obtained by Magnetron Sputtering. Journal of Nano- and Electronic Physics, 2017, 9, 02008-1-02008-4.	0.5	13
12	The Cadmium Telluride Thin Films for Flexible Solar Cell Received by Magnetron Dispersion Method. Journal of Nano- and Electronic Physics, 2017, 9, 03015-1-03015-7.	0.5	13
13	High-voltage DC converter for solar power station. International Journal of Power Electronics and Drive Systems, 2020, 11, 2135.	0.6	12
14	Hybrid solar generating module. , 2017, , .		11
15	EMI protection elements on cadmium telluride thin films. IOP Conference Series: Materials Science and Engineering, 0, 459, 012009.	0.6	10
16	Amplitude-time Characteristics of Switching in Thin Films of Cadmium Telluride. Journal of Nano- and Electronic Physics, 2018, 10, 01016-1-01016-5.	0.5	10
17	Adopting of DC magnetron sputtering method for preparing semiconductor films. , 2017, , .		9
18	Design of Electronic Devices Stress Testing System with Charging Line Based Impulse Generator. , 2020, , .		9

#	ARTICLE	IF	CITATIONS
19	The Development of Researches in the Electrical Engineering Field in Kharkiv Practical Technological Institute. The personalities. , 2019, , .		8
20	Effect of Plasma, RF, and RIE Treatments on Properties of Double-Sided High Voltage Solar Cells with Vertically Aligned p-n Junctions. International Journal of Photoenergy, 2016, 2016, 1-8.	2.5	3
21	Dependence of the Thin Film Solar Cells Efficiency from Operating Temperature. , 2019, , .		2
22	Structure and Optical Properties of CdTe and CdS Thin Films after Hard Ultraviolet Irradiation. Physics and Chemistry of Solid State, 2019, 20, 165-170.	0.8	2
23	Photovoltaic Thermal PV/T systems: increasing efficiency method. , 2021, , .		2
24	Application of ITO/Al reflectors for increasing the efficiency of single-crystal silicon solar cells. Semiconductors, 2010, 44, 772-777.	0.5	1
25	Hardware realization of the system for automated current-voltage characteristics measurement for semiconductor devices. , 2015, , .		1
26	Properties of CdTe films prepared by DC magnetron sputtering. , 2017, , .		1
27	Influence of Constructive and Technological Solutions of Silicon Solar Cells on Minority Carrier Parameters of Base Crystals. Telecommunications and Radio Engineering (English Translation of) Tj ETQq1 1 0.784314 rgBT /Overlock		1
28	Calculation of the Schematic Solution of FET-transistor Electronic Load. , 2021, , .		1
29	Theoretical Analysis of Optical Properties of CdS/CdTe Film Heterosystems. , 2020, , .		1
30	Effect of silver nanoparticles on the UV photosensitivity of electrodeposited in pulsed mode nanostructured ZnO arrays. , 2016, , .		0
31	Hybrid photoenergy installation development. IOP Conference Series: Materials Science and Engineering, 2018, 459, 012013.	0.6	0
32	Influence of Functional Layers Thickness on CdTe Based Flexible Solar Cells Efficiency. , 2019, , .		0
33	Control and power supply device for nanosecond EMP generator. , 2020, , .		0
34	ANALYSIS OF BATTERIES ACTIVE BALANCE SCHEMES EFFICIENCY. Bulletin of the National Technical University Á«KhPIÁ» Series New Solutions in Modern Technologies, 2021, , 38-45.	0.1	0
35	Scanning photodielectric spectroscopy of CdZnTe crystals under additional non-monochromatic illumination. Sensors and Actuators A: Physical, 2021, 328, 112772.	4.1	0
36	CALCULATION OF OPERATING PARAMETERS OF HIGH-VOLTAGE POWER TAKE-OFF SYSTEM FOR THE PHOTOVOLTAIC FACILITY. Electrical Engineering & Electromechanics, 2016, .	0.6	0

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37	Structure and Properties of the Cadmium Sulfide Films Received by Magnetron Dispersion Method. Journal of Nano- and Electronic Physics, 2017, 9, 06020-1-06020-5.	0.5	0
38	MODELING OF AN ADVANCED HEAT EXCHANGE UNIT WITH MICROCHANNELS FOR A COMBINED PHOTOENERGY SYSTEM. Electrical Engineering & Electromechanics, 2017, .	0.6	0
39	CONSTRUCTIVE SOLUTION OF HIGHLY EFFECTIVE PHOTOENERGY MODULE: DEVELOPMENT AND EXPERIMENTAL TESTING. Electrical Engineering & Electromechanics, 2019, .	0.6	0
40	Testing of Solar Station Based on Cooled Photovoltaic Module. , 2021, , .		0
41	Improving the Physical Model of GaAs Solar Cells. Journal of Nano- and Electronic Physics, 2020, 12, 06015-1-06015-6.	0.5	0
42	Advanced Heat Transfer Model of PV/T System. , 2021, , .		0
43	The Features of the Active Battery Balancing Systems. , 2021, , .		0
44	Study of a Hybrid Photovoltaic Solar Station with High-Voltage Converters. , 2021, , .		0
45	Automation Measurement System of Semiconductor Devices Parameters. , 2020, , .		0
46	Switching Effects from a High-Resistance State to a High Electrical Conductivity State in Mo/P-Cdte/Mo Structure. , 2020, , .		0
47	Novelty Approach to GaAs Solar Cells Modelling. , 2020, , .		0
48	Perspective metal-semiconductor-metal (Mo/p-CdTe/Mo) structure for switching elements. , 2020, , .		0
49	ĐoeĐĐšĐĐžĐ;ĐšĐžĐŸĐ†ĐšĐĐ•ĐĐ•ĐžĐ”ĐĐžĐĐ†Đ”ĐĐ†Đ;ĐĐĐ– ĐžĐŸĐĐĐ~ĐšĐĐ~ĐŸ, Đ”Đ†Đ•Đ•Đ•ĐšĐĐĐĐ~ĐšĐĐ~ĐŸ Đ† ĐĐžĐĐĐžĐ”		0
50	Calculation of the electronic loading scheme for testing low voltage sources. ElektrotehnĀ–ka Ta Elektroenergetika, 2022, , 38-48.	0.1	0