

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	Calculation of the electronic loading scheme for testing low voltage sources. Elektrotehnika Ta Elektroenergetika, 2022, , 38-48.	0.1	0
2	ANALYSIS OF BATTERIES ACTIVE BALANCE SCHEMES EFFICIENCY. Bulletin of the National Technical University "KhPIA" Series New Solutions in Modern Technologies, 2021, , 38-45.	0.1	0
3	Scanning photodielectric spectroscopy of CdZnTe crystals under additional non-monochromatic illumination. Sensors and Actuators A: Physical, 2021, 328, 112772.	4.1	0
4	Photovoltaic Thermal PV/T systems: increasing efficiency method. , 2021, , .		2
5	Calculation of the Schematic Solution of FET-transistor Electronic Load. , 2021, , .		1
6	Testing of Solar Station Based on Cooled Photovoltaic Module. , 2021, , .		0
7	Advanced Heat Transfer Model of PV/T System. , 2021, , .		0
8	The Features of the Active Battery Balancing Systems. , 2021, , .		0
9	Study of a Hybrid Photovoltaic Solar Station with High-Voltage Converters. , 2021, , .		0
10	Control and power supply device for nanosecond EMP generator. , 2020, , .		0
11	Improving the Solar Collector Base Model for PVT System. Journal of Nano- and Electronic Physics, 2020, 12, 04028-1-04028-5.	0.5	14
12	High-voltage DC converter for solar power station. International Journal of Power Electronics and Drive Systems, 2020, 11, 2135.	0.6	12
13	Improving the Physical Model of GaAs Solar Cells. Journal of Nano- and Electronic Physics, 2020, 12, 06015-1-06015-6.	0.5	0
14	Automation Measurement System of Semiconductor Devices Parameters. , 2020, , .		0
15	Theoretical Analysis of Optical Properties of CdS/CdTe Film Heterosystems. , 2020, , .		1
16	Switching Effects from a High-Resistance State to a High Electrical Conductivity State in Mo/P-Cdte/Mo Structure. , 2020, , .		0
17	Design of Electronic Devices Stress Testing System with Charging Line Based Impulse Generator. , 2020, , .		9
18	Novelty Approach to GaAs Solar Cells Modelling. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	Perspective metal-semiconductor-metal (Mo/p-CdTe/Mo) structure for switching elements. , 2020, , .		0
20	ĐœĐĐšĐĐžĐ;ĐšĐžŸĐ†ĐšĐĐ•ĐĐ•ĐžĐ”ĐĐžĐĐ†Đ”ĐĐ†Đ;ĐĐĐ– ĐžĐŸĐĐĐ–ĐšĐĐ”ĐŸ, Đ”Đ†Đ•Đ•ĐšĐĐĐĐ–ĐšĐĐ”ĐŸ Đ† ĐĐžĐĐĐžĐ”Đ		
21	Influence of Functional Layers Thickness on CdTe Based Flexible Solar Cells Efficiency. , 2019, , .		0
22	The Development of Researches in the Electrical Engineering Field in Kharkiv Practical Technological Institute. The personalities. , 2019, , .		8
23	Dependence of the Thin Film Solar Cells Efficiency from Operating Temperature. , 2019, , .		2
24	DC-DC Converter for High-Voltage Power Take-Off System of Solar Station. , 2019, , .		22
25	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
26	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
27	CONSTRUCTIVE SOLUTION OF HIGHLY EFFECTIVE PHOTOENERGY MODULE: DEVELOPMENT AND EXPERIMENTAL TESTING. Electrical Engineering & Electromechanics, 2019, .	0.6	0
28	Hybrid photoenergy installation development. IOP Conference Series: Materials Science and Engineering, 2018, 459, 012013.	0.6	0
29	Physical and Technological Foundations of the Â«ChlorideÂ» 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
30	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
31	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
32	Hybrid solar generating module. , 2017, , .		11
33	Development of hybrid solar generating module for high-efficiency solar energy station. , 2017, , .		13
34	Properties of CdTe films prepared by DC magnetron sputtering. , 2017, , .		1
35	Adopting of DC magnetron sputtering method for preparing semiconductor films. , 2017, , .		9
36	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

#	ARTICLE	IF	CITATIONS
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	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
39	MODELING OF AN ADVANCED HEAT EXCHANGE UNIT WITH MICROCHANNELS FOR A COMBINED PHOTOENERGY SYSTEM. Electrical Engineering & Electromechanics, 2017, .	0.6	0
40	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
41	Solar active Ag/ZnO nanostructured arrays obtained by a combination of electrochemical and chemical methods. Solar Energy, 2016, 136, 23-31.	6.1	13
42	Effect of silver nanoparticles on the UV photosensitivity of electrodeposited in pulsed mode nanostructured ZnO arrays. , 2016, , .		0
43	CALCULATION OF OPERATING PARAMETERS OF HIGH-VOLTAGE POWER TAKE-OFF SYSTEM FOR THE PHOTOVOLTAIC FACILITY. Electrical Engineering & Electromechanics, 2016, .	0.6	0
44	Pulsed LED illuminator for carrier lifetime investigation. , 2015, , .		14
45	Hardware realization of the system for automated current-voltage characteristics measurement for semiconductor devices. , 2015, , .		1
46	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
47	Application of ITO/Al reflectors for increasing the efficiency of single-crystal silicon solar cells. Semiconductors, 2010, 44, 772-777.	0.5	1
48	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
49	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		
50	EMI protection elements on cadmium telluride thin films. IOP Conference Series: Materials Science and Engineering, 0, 459, 012009.	0.6	10