

Dmitrii K Kostrin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

251
citations

9
h-index

12
g-index

98
ext. papers

343
ext. citations

0.2
avg, IF

3.59
L-index

#	Paper	IF	Citations
79	Distribution of the charged particles of a gas-discharge laser plasma in a transverse magnetic field. I. Calculation model. <i>Journal of Physics: Conference Series</i> , 2021 , 2059, 012013	0.3	
78	Distribution of the charged particles of a gas-discharge laser plasma in a transverse magnetic field. II. Experimental study. <i>Journal of Physics: Conference Series</i> , 2021 , 2059, 012014	0.3	
77	Application of an anti-emission coating of pyrolytic carbon to the grid electrodes of high-power electrovacuum devices by deposition from the gas phase in carbon plasma. <i>Journal of Physics: Conference Series</i> , 2021 , 1954, 012026	0.3	
76	Development of a high-voltage divider for kilovoltmeters used in testing and training of electrovacuum devices. <i>Journal of Physics: Conference Series</i> , 2021 , 1799, 012038	0.3	
75	Method and equipment for forming multilayer intermediate structures in the production of antiemission coatings. <i>Journal of Physics: Conference Series</i> , 2021 , 1799, 012015	0.3	
74	Pyrocarbon anti-emission coatings for grid electrodes of powerful generator lamps. <i>Vakuum in Forschung Und Praxis</i> , 2020 , 32, 28-31	0.3	1
73	Method for calculating the magnetic system of a vacuum arc installation 2020 ,		1
72	Die Gasdurchlässigkeit von Vakuummaterialien. <i>Vakuum in Forschung Und Praxis</i> , 2020 , 32, 36-39	0.3	1
71	Modelling of the cathode spots motion on the surface of the cathode. <i>Journal of Physics: Conference Series</i> , 2019 , 1313, 012035	0.3	1
70	Interaction of the metal plasma flows with surfaces of complex geometric shapes. <i>Journal of Physics: Conference Series</i> , 2019 , 1281, 012043	0.3	1
69	Thermal regime of the cathode in a vacuum-arc discharge during coating deposition. <i>Journal of Physics: Conference Series</i> , 2019 , 1281, 012044	0.3	1
68	Single-layer and multi-layer wear-resistant coatings. <i>Vakuum in Forschung Und Praxis</i> , 2019 , 31, 32-35	0.3	2
67	Prototype of the intraoral dental scanner based on a laser scanning system 2019 ,		1
66	Analysis of the effect of an external magnetic field on the working regime of a gas-discharge laser. <i>Journal of Physics: Conference Series</i> , 2019 , 1313, 012010	0.3	1
65	Method for improving the quality of focusing in optical spectrometers used for the diagnosis of plasma spectra. <i>Journal of Physics: Conference Series</i> , 2019 , 1313, 012055	0.3	0
64	Method of the coating thickness and transmittance control during the film deposition process. <i>Journal of Physics: Conference Series</i> , 2019 , 1313, 012056	0.3	1
63	Control of the sealing ability of vacuum materials and sealing rings for vacuum systems. <i>Journal of Physics: Conference Series</i> , 2019 , 1313, 012058	0.3	

62	A non-invasive optical technique for the liquid level metering 2018,		1
61	Development of a controllable pulsed power source for excitation of a gas discharge 2018,		1
60	A Surgical Carbon Dioxide Laser with an Electromagnetic Power Control System. <i>Bio-Medical Engineering, 2018, 52, 77-79</i>	0.5	2
59	Existence conditions for a low-pressure high-current discharge in a cylindrical magnetron. <i>Journal of Physics: Conference Series, 2018, 967, 012018</i>	0.3	
58	Distribution of coating thickness applied by magnetron sputtering. <i>IOP Conference Series: Materials Science and Engineering, 2018, 387, 012051</i>	0.4	
57	Accelerated testing of powerful electrovacuum devices. <i>Vakuum in Forschung Und Praxis, 2018, 30, 36-40.</i>	0.3	2
56	Optimization of the methods for measuring color characteristics of light-emitting diodes in laboratory conditions. <i>Journal of Physics: Conference Series, 2018, 1038, 012069</i>	0.3	0
55	Formation of coatings from the flow of metal plasma of a vacuum-arc discharge. <i>IOP Conference Series: Materials Science and Engineering, 2018, 387, 012066</i>	0.4	
54	Modification of the surface layers with plasma of a vacuum-arc discharge by controlling the energy of precipitating particles. <i>Journal of Physics: Conference Series, 2018, 1038, 012129</i>	0.3	1
53	Modeling of the optical schemes of small-sized spectrometers. <i>Journal of Physics: Conference Series, 2018, 1135, 012062</i>	0.3	1
52	Development of a device for automating the diagnostics of plasma parameters by probe method. <i>IOP Conference Series: Materials Science and Engineering, 2018, 387, 012077</i>	0.4	0
51	Protection of the electronic components of measuring equipment from the X-ray radiation. <i>Journal of Physics: Conference Series, 2018, 967, 012011</i>	0.3	1
50	Carbiding of the electrodes of electrovacuum devices. <i>Journal of Physics: Conference Series, 2018, 967, 012013</i>	0.3	
49	Gas-discharge laser with controlled output power for medical applications. <i>IOP Conference Series: Materials Science and Engineering, 2018, 387, 012011</i>	0.4	3
48	Application of a vacuum-arc discharge for the production of biocompatible coatings. <i>IOP Conference Series: Materials Science and Engineering, 2018, 387, 012041</i>	0.4	1
47	Peculiarities of noncontact cardiac signal registration. <i>Journal of Physics: Conference Series, 2018, 1124, 031003</i>	0.3	0
46	Development of a device for monitoring gas discharge parameters in a system with boiling liquid in a channel. <i>IOP Conference Series: Materials Science and Engineering, 2018, 387, 012064</i>	0.4	
45	Modification of the CCD photodetectors for the suppression of interference in their internal structure. <i>Journal of Physics: Conference Series, 2018, 1038, 012098</i>	0.3	1

44	Application of the gas-discharge surge arresters in X-ray devices and low voltage instrumentation. <i>Journal of Physics: Conference Series</i> , 2018 , 967, 012015	0.3	0
43	One-channel EEG monitor for tracking the depth of narcosis. <i>Journal of Physics: Conference Series</i> , 2018 , 1038, 012028	0.3	0
42	Improving the structural quality and adhesion of functional coatings. <i>Vakuum in Forschung Und Praxis</i> , 2018 , 30, 40-44	0.3	
41	Analysis of the water composition using emission spectra of a gas discharge 2017 ,		4
40	Modification of the photosensitive CCD structures for application in the spectrometric equipment 2017 ,		5
39	Controlled formation of multilayer nanoscale coatings from the vacuum arc discharge plasma 2017 ,		1
38	An antiemission coating based on zirconium carbide. <i>Technical Physics Letters</i> , 2017 , 43, 390-392	0.7	5
37	Plasmachemical synthesis of coatings using a vacuum arc discharge. <i>Vakuum in Forschung Und Praxis</i> , 2017 , 29, 35-39	0.3	11
36	Decomposition of the hydrocarbon compounds in the vacuum arc discharge plasma. <i>Journal of Physics: Conference Series</i> , 2017 , 789, 012029	0.3	2
35	Cleaning of the dielectric surfaces using a controlled gas-discharge source of fast neutral particles. <i>Journal of Physics: Conference Series</i> , 2017 , 872, 012021	0.3	1
34	Compensation of the nonuniformity of sensitivity for the multielement infrared photodetector. <i>Journal of Physics: Conference Series</i> , 2017 , 929, 012075	0.3	0
33	Improvement of the measurement accuracy of the spectral method for evaluation parameters of the optically transparent thin films. <i>Journal of Physics: Conference Series</i> , 2017 , 872, 012044	0.3	1
32	Method of recording bioelectrical signals using a capacitive coupling. <i>Journal of Physics: Conference Series</i> , 2017 , 929, 012016	0.3	3
31	Determination of the composition of liquids using spectral analysis of the electric discharge radiation. <i>Journal of Physics: Conference Series</i> , 2017 , 929, 012062	0.3	4
30	Single-channel electroencephalograph for monitoring the depth of anaesthesia. <i>Journal of Physics: Conference Series</i> , 2017 , 881, 012021	0.3	1
29	Determination of the plasma parameters of a glow discharge in long tubes. <i>Journal of Physics: Conference Series</i> , 2017 , 789, 012027	0.3	12
28	Modelling emission spectra of the gas-discharge plasma for the aims of its analysis and parameters estimation. <i>Journal of Physics: Conference Series</i> , 2017 , 872, 012055	0.3	1
27	Plasma of a vacuum-arc discharge for obtaining carbon-based coatings. <i>Journal of Physics: Conference Series</i> , 2017 , 929, 012093	0.3	2

26	Peculiarities of the structure formation of nanoscale coatings from the vacuum arc discharge plasma. <i>Journal of Physics: Conference Series</i> , 2017 , 789, 012030	0.3	
25	Thickness measurements of coatings formed from metal plasma of a vacuum arc discharge using X-ray radiation. <i>Journal of Physics: Conference Series</i> , 2017 , 808, 012005	0.3	1
24	Measuring equipment for controlling the anode current during training and testing of the X-ray tubes. <i>Journal of Physics: Conference Series</i> , 2017 , 808, 012007	0.3	
23	Spectral analysis of the charge and elemental composition of the vacuum arc discharge plasma flux during deposition of carbon coatings. <i>Journal of Physics: Conference Series</i> , 2017 , 857, 012022	0.3	4
22	Formation of Biomedical Coatings with Complex Compositions Using Vacuum Arc Plasma. <i>Bio-Medical Engineering</i> , 2017 , 51, 262-266	0.5	7
21	Calculation of a vacuum system of the installation for cleaning the surface of metal rolling by a cathode spot of a vacuum arc. <i>Journal of Physics: Conference Series</i> , 2017 , 872, 012006	0.3	2
20	Modelling of a high-current magnetron discharge in a plasma electron emitter. <i>Journal of Physics: Conference Series</i> , 2017 , 872, 012013	0.3	
19	Control of the gas laser output power. <i>Vakuum in Forschung Und Praxis</i> , 2016 , 28, 34-37	0.3	11
18	Method of magnetron target temperature evaluation by analysis of thermal radiation spectrum. <i>Journal of Physics: Conference Series</i> , 2016 , 729, 012019	0.3	7
17	Spectrometric control of coatings deposition process. <i>Journal of Physics: Conference Series</i> , 2016 , 735, 012055	0.3	9
16	Measurement of coating thickness using laser heating. <i>Journal of Physics: Conference Series</i> , 2016 , 735, 012049	0.3	3
15	Analysis of the plasma radiation spectra with lines of significantly varying intensity. <i>Journal of Physics: Conference Series</i> , 2016 , 729, 012030	0.3	12
14	Characteristics of a glow discharge maintained in the vapors of a liquid. <i>Journal of Physics: Conference Series</i> , 2016 , 729, 012004	0.3	9
13	Electromagnetic system for the management of the output power of the carbon dioxide laser. <i>Journal of Physics: Conference Series</i> , 2016 , 729, 012023	0.3	8
12	Optical spectrometry in the diagnosis of ion-plasma processes. <i>Vakuum in Forschung Und Praxis</i> , 2016 , 28, 34-37	0.3	16
11	Raman spectroscopy for identification of wood species. <i>Journal of Physics: Conference Series</i> , 2016 , 741, 012131	0.3	2
10	How to choose a leak detection method 2016 ,		2
9	Technology for producing new wear-resistant coatings in the plasma of a vacuum-arc discharge 2016 ,		4

8	A method of cardiac signal registration through a capacitive coupling between sensors and patients skin 2016 ,		3
7	Cathode Spots of Vacuum Arc Discharges. <i>Vakuum in Forschung Und Praxis</i> , 2015 , 27, 22-25	0.3	22
6	Antiemissive coatings. <i>Journal of Physics: Conference Series</i> , 2015 , 652, 012032	0.3	6
5	Gas Permeation through Vacuum Materials. <i>Vakuum in Forschung Und Praxis</i> , 2015 , 27, 26-29	0.3	4
4	Three-dimensional Scanning Systems Based on Binocular Stereovision for Medical Diagnosis. <i>Bio-Medical Engineering</i> , 2014 , 48, 62-65	0.5	1
3	Optoelectronic Data Measuring System for Monitoring Polyhexamethylene Guanidine-Based Decontaminants. <i>Bio-Medical Engineering</i> , 2014 , 48, 13-16	0.5	4
2	Use of compact spectrometer for plasma emission qualitative analysis. <i>Journal of Physics: Conference Series</i> , 2014 , 567, 012039	0.3	8
1	Technological Capabilities of Vacuum Arc Plasma Sources. <i>Vakuum in Forschung Und Praxis</i> , 2014 , 26, 19-23	0.3	26