

Đ;ĐµÑ€Đ³ĐµĐ¹ ĐꝰĐ,Đ»Đ,Đ;Đ;Đ³⁄₄Đ²

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/155535/publications.pdf>

Version: 2024-02-01

56
papers

257
citations

1040056

9
h-index

1125743

13
g-index

56
all docs

56
docs citations

56
times ranked

74
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time implementation of the “orthodoxy test” for conformity of current-voltage characteristics with classical field electron emission theory. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 041802.	1.2	18
2	Local current-voltage estimation and characterization based on field emission image processing of large-area field emitters. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, 02C106.	1.2	17
3	The pre-exponential voltage-exponent as a sensitive test parameter for field emission theories. Royal Society Open Science, 2021, 8, 201986.	2.4	17
4	Mass-spectrum investigation of the phenomena accompanying field electron emission. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, 03C109.	1.2	14
5	Comparison of macroscopic and microscopic emission characteristics of large area field emitters based on carbon nanotubes and graphene. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 043203.	1.2	14
6	Determining the field enhancement factors of various field electron emitters with high numerical accuracy. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, .	1.2	14
7	Evolution of the characteristics of a field-electron emitter based on nitrocellulose-carbon nanotube composite. Technical Physics Letters, 2013, 39, 484-487.	0.7	13
8	Electrical field admissible values for the classical field emitter regime in the study of large area emitters. AIP Advances, 2019, 9, .	1.3	12
9	Statistical dispersion of nanocomposite emission parameters. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, 03C104.	1.2	10
10	Influence of the distribution of local field enhancement factors on the shape of the current-voltage characteristics of carbon-nanotube-based large-area emitters. Vacuum, 2020, 173, 109159.	3.5	10
11	Statistical dispersion of the field emission parameters of multipoint cathodes based on a polymer-carbon nanotube composite. Technical Physics Letters, 2014, 40, 438-441.	0.7	9
12	Ten Approaches to Define the Field Emission Area. Technical Physics, 2019, 64, 1530-1540.	0.7	9
13	Development of Technological Principles for Creating a System of Microfocus X-Ray Tubes Based on Silicon Field Emission Nanocathodes. Technical Physics, 2019, 64, 1742-1748.	0.7	9
14	A Test for Compliance with the Cold Field Emission Regime Using the Elinson-Schrednik and Forbes-Deane Approximations (Murphy-Good Plot). Technical Physics Letters, 2020, 46, 838-842.	0.7	8
15	Development of on-line emission parameters processing research technique of polymer-MWCNT emitters. , 2012, , .		6
16	Hysteresis phenomenon of the field emission from carbon nanotube/polymer nanocomposite. Journal of Physics: Conference Series, 2015, 643, 012101.	0.4	6
17	Evaluation of numerical characteristics of the current load distribution on the surface of multi-tip field emitters. Journal of Physics: Conference Series, 2017, 917, 092022.	0.4	5
18	A Test for the Applicability of the Field Emission Law to Studying Multitip Field Emitters by Analysis of the Power Index of the Preexponential Voltage Factor. Technical Physics Letters, 2019, 45, 916-919.	0.7	5

#	ARTICLE	IF	CITATIONS
19	Theoretical methods for definition of the emission area of multi-tip cathodes and their experimental validation. Journal of Physics: Conference Series, 2019, 1400, 077059.	0.4	5
20	Properties of blade-like field emitters. Ultramicroscopy, 2022, 233, 113462.	1.9	5
21	Application of slope-intercept diagram to determine the parameters of the nanocomposite field emitters in-situ. Journal of Physics: Conference Series, 2016, 741, 012031.	0.4	4
22	The emission characteristics of graphene in different modes of high-voltage power supply. Journal of Physics: Conference Series, 2016, 741, 012029.	0.4	4
23	Extracting formal emission area by on-line processing of current-voltage data, using FN-type equations for the Schottky-Nordheim barrier. , 2016, , .		3
24	SK analysis of the volt-ampere characteristics in graphene-based nanocomposite field emitters. Technical Physics, 2017, 62, 1097-1103.	0.7	3
25	Experimental confirmation of the nearly power-law relation between macroscopic current and characteristic current density in carbon nanotube-based large-area field emitters. Journal of Applied Physics, 2019, 126, .	2.5	3
26	Analysis of the Behavior of Individual Emission Sites on the Surface of a Multi-Tip Field Cathode. Technical Physics Letters, 2019, 45, 304-307.	0.7	3
27	Modeling basic tip forms and its effective field emission parameters. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, 044002.	1.2	3
28	Comparison of the effective parameters of single-tip tungsten emitter using Fowlerâ€“Nordheim and Murphyâ€“Good plots. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2022, 40, .	1.2	3
29	Liquid-metal field electron source based on porous GaP. Technical Physics, 2017, 62, 1424-1430.	0.7	2
30	FEF distribution influence on linearity of Fowler-Nordheim plots: Modeling and experiment. , 2017, , .		2
31	Estimation and analysis of local current-voltage characteristics based on processing of field emission images of large area field emitters. , 2017, , .		2
32	The technique of visualization and evaluation of the emission site distribution for large area field emitters. Journal of Physics: Conference Series, 2017, 929, 012057.	0.4	2
33	Fluctuations of the emission characteristics of multi-tip field cathodes. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 031803.	1.2	2
34	Investigation of multi-tip large area emitters using computerized field emission projector. IOP Conference Series: Materials Science and Engineering, 0, 525, 012051.	0.6	2
35	Investigation of the current level instability of the multitip field emitters with computerized field emission projector. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 062806.	1.2	2
36	Modeling basic tip forms and its field emission. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
37	Numerical simulations of field emission characteristics of open CNT. Ultramicroscopy, 2021, 230, 113362.	1.9	2
38	Research of the polymer-MWCNT emitters in AC power supply. , 2012, , .		1
39	A study of the electrical properties of the porous GaP (111) surface. Technical Physics Letters, 2016, 42, 1118-1121.	0.7	1
40	The technique of online analysis of the current-voltage characteristics of nanocomposite field emitters using the SK-charts. , 2016, , .		1
41	Estimation of the area of field emission of a carbon nanotube using modelling in COMSOL Multiphysics. Journal of Physics: Conference Series, 2018, 1038, 012121.	0.4	1
42	A Study of the Residual Gas Composition in the Vacuum System of the Cyclotron of the Ioffe Physical Technical Institute. Technical Physics Letters, 2019, 45, 827-830.	0.7	1
43	Investigation of the emission properties of a silicon blade-type cathode. Journal of Physics: Conference Series, 2019, 1400, 055011.	0.4	1
44	Outgassing during large area field emitter operation in the diode system. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2022, 40, 024002.	1.2	1
45	MS-TOF as a unique instrument for research of multi-tip field emitters. , 2014, , .		0
46	The emission structures stability in alternating electrical fields. , 2014, , .		0
47	The technique of field emission parameters research for nanostructured materials improvement. Journal of Physics: Conference Series, 2014, 572, 012026.	0.4	0
48	Current-voltage characteristic hysteresis dependence on power supply regime for large area field emitters. , 2016, , .		0
49	Empirical evaluation of the field enhancement factor as a function from electrode spacing for LAFE and single emitter. Journal of Physics: Conference Series, 2017, 917, 092025.	0.4	0
50	Simulation of nanocomposite field emitters in COMSOL Multiphysics using field emission projector data. Journal of Physics: Conference Series, 2018, 1135, 012028.	0.4	0
51	Analysis of microscopic emission sites regularity of nanocomposite field cathodes. Journal of Physics: Conference Series, 2018, 1135, 012027.	0.4	0
52	Modeling of stochastic processes in the emission characteristics of multitips electron sources. Journal of Physics: Conference Series, 2018, 1135, 012035.	0.4	0
53	Comparison of the effective parameters of single-tip tungsten emitter using FN and MC-plots. , 2021, , .		0
54	Experimental study of the multi-tip field emitter based on the array of silicon pyramidal microstructures. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
55	Degradation of an emitter based on VACNT made by DC-PECVD during field emission. , 2021, , .		0
56	Fabrication and complex investigation of LAFE based on CNT by PECVD with island catalyst. Journal of Physics: Conference Series, 2021, 2103, 012110.	0.4	0