

Sergey V Baryshev

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

264
citations

933447

10
h-index

940533

16
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21
all docs

21
docs citations

21
times ranked

202
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryogenic operation of planar ultrananocrystalline diamond field emission source in SRF injector. Applied Physics Letters, 2021, 118, .	3.3	3
2	FEbeam: Cavity and electron emission data conversion, processing, and analysis. A freeware toolkit for rf injectors. Review of Scientific Instruments, 2021, 92, 053305.	1.3	3
3	Traveling wakefield tube: THz source powered by nonrelativistic electron beam. Journal of Applied Physics, 2021, 130, 123101.	2.5	1
4	Confirmation of Transit Time-Limited Field Emission in Advanced Carbon Materials with a Fast Pattern Recognition Algorithm. ACS Applied Electronic Materials, 2021, 3, 4990-4999.	4.3	2
5	Ampere-class bright field emission cathode operated at 100 eV . Physical Review Accelerators and Beams, 2021, 24, .	1.3	4
6	Submicrometer ultrananocrystalline diamond films processed in oxygen and hydrogen plasma and analyzed by UV-vis spectroscopy: Thickness and optical constant results. Surface Science Spectra, 2020, 27, 026601.	1.2	14
7	Field emission microscopy of carbon nanotube fibers: Evaluating and interpreting spatial emission. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, .	2.5	7
8	Dynamic graphitization of ultra-nano-crystalline diamond and its effects on material resistivity. Journal of Applied Physics, 2020, 128, .	2.5	11
9	Theoretical evaluation of electronic density-of-states and transport effects on field emission from n-type ultrananocrystalline diamond films. Journal of Applied Physics, 2019, 125, .	2.8	9
10	Field electron emission induced glow discharge in a nanodiamond vacuum diode. Journal Physics D: Applied Physics, 2019, 52, 325301.	3.3	11
11	Mean transverse energy of ultrananocrystalline diamond photocathode. Applied Physics Letters, 2019, 114, .	1.6	10
12	High power conditioning and benchmarking of planar nitrogen-incorporated ultrananocrystalline diamond field emission electron source. Physical Review Accelerators and Beams, 2019, 22, .	3.0	6
13	Nanodiamond Thin Film Field Emitter Cartridge for Miniature High-Gradient Radio Frequency X-Band Electron Injector. IEEE Transactions on Electron Devices, 2018, 65, 1132-1138.		1
14	Current Saturation in Semiconductor and Semimetallic Field Emitters. , 2018, , .	1.3	10
15	Electron emission projection imager. Review of Scientific Instruments, 2017, 88, 033701.	8.0	34
16	Locally Resolved Electron Emission Area and Unified View of Field Emission from Ultrananocrystalline Diamond Films. ACS Applied Materials & Interfaces, 2017, 9, 33229-33237.	7.8	14
17	Observation of Dark Current Emission in a High Gradient rf Photocathode Gun. Physical Review Letters, 2016, 117, 084801.	1.9	31
18	GHz laser-free time-resolved transmission electron microscopy: A stroboscopic high-duty-cycle method. Ultramicroscopy, 2016, 161, 130-136.		

#	ARTICLE	IF	CITATIONS
19	Observation of Field-Emission Dependence on Stored Energy. Physical Review Letters, 2015, 115, 264802.	7.8	20
20	Planar ultrananocrystalline diamond field emitter in accelerator radio frequency electron injector: Performance metrics. Applied Physics Letters, 2014, 105, .	3.3	28
21	High quantum efficiency ultrananocrystalline diamond photocathode for photoinjector applications. Applied Physics Letters, 2014, 105, .	3.3	42