

Jakub Zlajmal

List of Publications by Year in descending order

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27
papers

378
citations

1040056

9
h-index

794594

19
g-index

27
all docs

27
docs citations

27
times ranked

443
citing authors

#	ARTICLE	IF	CITATIONS
1	A new program for the design of electron microscopes. Physics Procedia, 2008, 1, 315-324.	1.2	51
2	Comparison of FDM, FEM and BEM for electrostatic charged particle optics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 427, 357-362.	1.6	44
3	Co doped YbFeO ₃ : exploring the electrical properties via tuning the doping level. Ionics, 2019, 25, 4013-4029.	2.4	36
4	Guided Assembly of Gold Colloidal Nanoparticles on Silicon Substrates Prepatterned by Charged Particle Beams. ACS Nano, 2012, 6, 10098-10106.	14.6	34
5	Experimental optimization of power-function-shaped drive pulse for stick-slip piezo actuators. Precision Engineering, 2015, 42, 187-194.	3.4	29
6	Role of humidity in local anodic oxidation: A study of water condensation and electric field distribution. Physical Review B, 2009, 79, .	3.2	26
7	Comparison of calculated, simulated and measured signal amplification in a variable pressure SEM. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 645, 79-83.	1.6	26
8	Numerical simulations of the thermionic electron gun for electron-beam welding and micromachining. Vacuum, 2009, 84, 357-362.	3.5	21
9	Development of the program EOD for design in electron and ion microscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 645, 278-282.	1.6	21
10	An ultra-low energy (30â€“200ÂeV) ion-atomic beam source for ion-beam-assisted deposition in ultrahigh vacuum. Review of Scientific Instruments, 2011, 82, 083302.	1.3	9
11	Deposition of magnetic thin films by IBAD. Nuclear Instruments & Methods in Physics Research B, 1999, 148, 907-911.	1.4	8
12	In situ measurements of surface homogeneity of optical parameters of weakly absorbing thin films. Surface and Interface Analysis, 2002, 34, 664-667.	1.8	8
13	The influence of humidity on the kinetics of local anodic oxidation. Journal of Physics: Conference Series, 2007, 61, 75-79.	0.4	7
14	Role of conduction and convection heat transfer during rapid crack-free sintering of bulk ceramic with low thermal conductivity. Journal of the European Ceramic Society, 2016, 36, 2955-2959.	5.7	7
15	Deposition of metal nitrides by IBAD. Surface and Coatings Technology, 1998, 108-109, 284-291.	4.8	6
16	Calculation of the performance of magnetic lenses with limited machining precision. Ultramicroscopy, 2014, 137, 1-6.	1.9	6
17	Influence of Saturation of Magnetic Lens Material on Fields of Deflectors and Parasitic Fields. Microscopy and Microanalysis, 2015, 21, 188-193.	0.4	6
18	Rapid heating of zirconia nanoparticle-powder compacts by infrared radiation heat transfer. Journal of the European Ceramic Society, 2017, 37, 1067-1072.	5.7	6

#	ARTICLE	IF	CITATIONS
19	Mid-IR plasmonic antennas on silicon-rich oxinitride absorbing substrates: Nonlinear scaling of resonance wavelengths with antenna length. Applied Physics Letters, 2009, 95, .	3.3	5
20	Cleaning of metal surfaces by a broad beam ion source. Nuclear Instruments & Methods in Physics Research B, 1997, 127-128, 865-868.	1.4	4
21	On the Calculation of SEM and FIB Beam Profiles. Microscopy and Microanalysis, 2015, 21, 206-211.	0.4	4
22	Accurate interpolation of 3D fields in charged particle optics. Ultramicroscopy, 2018, 189, 95-101.	1.9	4
23	Optimization of ion-atomic beam source for deposition of GaN ultrathin films. Review of Scientific Instruments, 2014, 85, 083302.	1.3	3
24	Accurate Interpolation of 3D Fields Close to the Optical Axis. Microscopy and Microanalysis, 2015, 21, 242-245.	0.4	3
25	Design of the charged particle diverter for the ATHENA mission. , 2018, , .		3
26	Design of the entrance ion optics for SIMS and LEIS in situ monitoring of deposition processes. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 822-824.	1.4	1
27	Microscopic Characterizations of Nanostructured Silicon Thin Films for Solar Cells. Materials Research Society Symposia Proceedings, 2011, 1321, 313.	0.1	0