Vadim Migunov

List of Publications by Year
in descending order

33 papers	574 citations	759233 12 h-index	610901 24 g-index
40 all docs	40 docs citations	40 times ranked	1145 citing authors

#	Article	IF	Citations
1	Experimental and Theoretical Understanding of Nitrogen-Doping-Induced Strong Metalâ€“Support Interactions in Pd/TiO₂ Catalysts for Nitrobenzene Hydrogenation. ACS Catalysis, 2017, 7, 1197-1206.	11.2	138
2	Electron Microscopy (Big and Small) Data Analysis With the Open Source Software Package HyperSpy. Microscopy and Microanalysis, 2017, 23, 214-215.	0.4	74
3	Rapid low dose electron tomography using a direct electron detection camera. Scientific Reports, 2015, 5, 14516.	3.3	71
4	Atomic-scale quantification of charge densities in two-dimensional materials. Physical Review B, 2018, 98, .	3.2	36
5	Model-independent measurement of the charge density distribution along an Fe atom probe needle using off-axis electron holography without mean inner potential effects. Journal of Applied Physics, 2015, 117, .	2.5	30
6	Automated discrete electron tomographyÂâ€“ Towards routine high-fidelity reconstruction of nanomaterials. Ultramicroscopy, 2017, 175, 87-96.	1.9	27
7	LiberTEM: Software platform for scalable multidimensional data processing in transmission electron microscopy. Journal of Open Source Software, 2020, 5, 2006.	4.6	26
8	Planar-defect characteristics and cross-sections of ã€ˆ001ã€‰, ã€ˆ111ã€‰, and ã€ˆ112ã€‰ InAs nanowires. Journal of Applied Physics, 2011, 109, 114320.	2.5	21
9	Tunable caustic phenomena in electron wavefields. Ultramicroscopy, 2015, 157, 57-64.	1.9	20
10	Fabrication and characterization of a focused ion beam milled lanthanum hexaboride based cold field electron emitter source. Applied Physics Letters, 2018, 113, 093101.	3.3	17
11	In situ transmission electron microscopy of resistive switching in thin silicon oxide layers. Resolution and Discovery, 2016, 1, 27-33.	0.4	16
12	Operando Transmission Electron Microscopy Study of All-Solid-State Battery Interface: Redistribution of Lithium among Interconnected Particles. ACS Applied Energy Materials, 2020, 3, 5101-5106.	5.1	14
13	Prospects for quantitative and time-resolved double and continuous exposure off-axis electron holography. Ultramicroscopy, 2017, 178, 48-61.	1.9	12
14	Tunable Ampere phase plate for low dose imaging of biomolecular complexes. Scientific Reports, 2018, 8, 5592.	3.3	11
15	Effect of preparation of iron-infiltrated activated carbon catalysts on nitrogen oxide conversion at low temperature. Applied Catalysis B: Environmental, 2014, 160-161, 641-650.	20.2	9
16	Measurement of charge density in nanoscale materials using off-axis electron holography. Journal of Electron Spectroscopy and Related Phenomena, 2020, 241, 146881.	1.7	9
17	Quantitative measurement of charge accumulation along a quasi-one-dimensional W₅O₁₄ nanowire during electron field emission. Nanoscale, 2020, 12, 10559-10564.	5.6	7
18	Three-dimensional electric field mapping of an electrically biased atom probe needle using off-axis electron holography. Microscopy and Microanalysis, 2019, 25, 326-327.	0.4	6

#	Article	IF	Citations
19	Enhancement of magneto-optical response in nanocomposite-hydrogenated amorphous silicon multilayers. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1379-1381.	0.6	5
20	Continuous illumination picosecond imaging using a delay line detector in a transmission electron microscope. Ultramicroscopy, 2022, 233, 113392.	1.9	5
21	Imaging At the Timescale Of Micro- and Milliseconds With the pnCCD (S)TEM Camera. Microscopy and Microanalysis, 2015, 21, 1585-1586.	0.4	4
22	Single Electron Precision in the Measurement of Charge Distributions on Electrically Biased Graphene Nanotips Using Electron Holography. Nano Letters, 2019, 19, 4091-4096.	9.1	4
23	Dense, Regular GaAs Nanowire Arrays by Catalyst-Free Vapor Phase Epitaxy for Light Harvesting. ACS Applied Materials & Interfaces, 2016, 8, 22484-22492.	8.0	2
24	Live Measurement of Electrical Charge Density in Materials using Off-Axis Electron Holography. Microscopy and Microanalysis, 2019, 25, 44-45.	0.4	2
25	Operando transmission electron microscopy of battery cycling: thickness dependent breaking of TiO₂ coating on Si/SiO₂ nanoparticles. Chemical Communications, 2022, 58, 3130-3133.	4.1	2
26	New Approaches for Measuring Electrostatic Potentials and Charge Density Distributions in Working Devices Using Off-Axis and In-Line Electron Holography. Microscopy and Microanalysis, 2014, 20, 260-261.	0.4	1
27	Electron Holography of the Magnetic Phase Shift of a Current-Carrying Wire. Microscopy and Microanalysis, 2014, 20, 278-279.	0.4	1
28	Measurement of Atomic Electric Fields by Scanning Transmission Electron Microscopy (STEM) Employing Ultrafast Detectors. Microscopy and Microanalysis, 2016, 22, 484-485.	0.4	1
29	Electron Transport in Partially Filled Iron Carbon Nanotubes. Solid State Phenomena, 2012, 190, 498-501.	0.3	0
30	Electric and Magnetic Field Mapping With the pnCCD (S)TEM Camera. Microscopy and Microanalysis, 2016, 22, 256-257.	0.4	0
31	Pushing the Limits of Fast Acquisition in TEM Tomography and 4D-STEM. Microscopy and Microanalysis, 2016, 22, 512-513.	0.4	0
32	Model-Based Iterative Reconstruction of Charge Density in Nanoscale Materials using Off-Axis Electron Holography. Microscopy and Microanalysis, 2019, 25, 48-49.	0.4	0
33	Three-dimensional Charge Density and Electric Field Mapping of an Electrically Biased Needle Using Off-axis Electron Holography. Microscopy and Microanalysis, 2020, 26, 1540-1542.	0.4	0