

# Vadim Migunov

## List of Publications by Year in descending order

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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	Continuous illumination picosecond imaging using a delay line detector in a transmission electron microscope. <i>Ultramicroscopy</i> , 2022, 233, 113392.	1.9	5
2	<i>Operando</i> transmission electron microscopy of battery cycling: thickness dependent breaking of TiO <sub>2</sub> coating on Si/SiO <sub>2</sub> nanoparticles. <i>Chemical Communications</i> , 2022, 58, 3130-3133.	4.1	2
3	Measurement of charge density in nanoscale materials using off-axis electron holography. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2020, 241, 146881.	1.7	9
4	Three-dimensional Charge Density and Electric Field Mapping of an Electrically Biased Needle Using Off-axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2020, 26, 1540-1542.	0.4	0
5	Operando Transmission Electron Microscopy Study of All-Solid-State Battery Interface: Redistribution of Lithium among Interconnected Particles. <i>ACS Applied Energy Materials</i> , 2020, 3, 5101-5106.	5.1	14
6	Quantitative measurement of charge accumulation along a quasi-one-dimensional W <sub>5</sub> O <sub>14</sub> nanowire during electron field emission. <i>Nanoscale</i> , 2020, 12, 10559-10564.	5.6	7
7	LiberTEM: Software platform for scalable multidimensional data processing in transmission electron microscopy. <i>Journal of Open Source Software</i> , 2020, 5, 2006.	4.6	26
8	Model-Based Iterative Reconstruction of Charge Density in Nanoscale Materials using Off-Axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2019, 25, 48-49.	0.4	0
9	Three-dimensional electric field mapping of an electrically biased atom probe needle using off-axis electron holography. <i>Microscopy and Microanalysis</i> , 2019, 25, 326-327.	0.4	6
10	Live Measurement of Electrical Charge Density in Materials using Off-Axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2019, 25, 44-45.	0.4	2
11	Single Electron Precision in the Measurement of Charge Distributions on Electrically Biased Graphene Nanotips Using Electron Holography. <i>Nano Letters</i> , 2019, 19, 4091-4096.	9.1	4
12	Tunable Ampere phase plate for low dose imaging of biomolecular complexes. <i>Scientific Reports</i> , 2018, 8, 5592.	3.3	11
13	Atomic-scale quantification of charge densities in two-dimensional materials. <i>Physical Review B</i> , 2018, 98, .	3.2	36
14	Fabrication and characterization of a focused ion beam milled lanthanum hexaboride based cold field electron emitter source. <i>Applied Physics Letters</i> , 2018, 113, 093101.	3.3	17
15	Automated discrete electron tomography – Towards routine high-fidelity reconstruction of nanomaterials. <i>Ultramicroscopy</i> , 2017, 175, 87-96.	1.9	27
16	Experimental and Theoretical Understanding of Nitrogen-Doping-Induced Strong Metal-Support Interactions in Pd/TiO <sub>2</sub> Catalysts for Nitrobenzene Hydrogenation. <i>ACS Catalysis</i> , 2017, 7, 1197-1206.	11.2	138
17	Prospects for quantitative and time-resolved double and continuous exposure off-axis electron holography. <i>Ultramicroscopy</i> , 2017, 178, 48-61.	1.9	12
18	Electron Microscopy (Big and Small) Data Analysis With the Open Source Software Package HyperSpy. <i>Microscopy and Microanalysis</i> , 2017, 23, 214-215.	0.4	74

#	ARTICLE	IF	CITATIONS
19	Measurement of Atomic Electric Fields by Scanning Transmission Electron Microscopy (STEM) Employing Ultrafast Detectors. <i>Microscopy and Microanalysis</i> , 2016, 22, 484-485.	0.4	1
20	Electric and Magnetic Field Mapping With the pnCCD (S)TEM Camera. <i>Microscopy and Microanalysis</i> , 2016, 22, 256-257.	0.4	0
21	Pushing the Limits of Fast Acquisition in TEM Tomography and 4D-STEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 512-513.	0.4	0
22	<i>In situ</i> transmission electron microscopy of resistive switching in thin silicon oxide layers. <i>Resolution and Discovery</i> , 2016, 1, 27-33.	0.4	16
23	Dense, Regular GaAs Nanowire Arrays by Catalyst-Free Vapor Phase Epitaxy for Light Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 22484-22492.	8.0	2
24	Imaging At the Timescale Of Micro- and Milliseconds With the pnCCD (S)TEM Camera. <i>Microscopy and Microanalysis</i> , 2015, 21, 1585-1586.	0.4	4
25	Rapid low dose electron tomography using a direct electron detection camera. <i>Scientific Reports</i> , 2015, 5, 14516.	3.3	71
26	Tunable caustic phenomena in electron wavefields. <i>Ultramicroscopy</i> , 2015, 157, 57-64.	1.9	20
27	Model-independent measurement of the charge density distribution along an Fe atom probe needle using off-axis electron holography without mean inner potential effects. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	30
28	Effect of preparation of iron-infiltrated activated carbon catalysts on nitrogen oxide conversion at low temperature. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 641-650.	20.2	9
29	New Approaches for Measuring Electrostatic Potentials and Charge Density Distributions in Working Devices Using Off-Axis and In-Line Electron Holography. <i>Microscopy and Microanalysis</i> , 2014, 20, 260-261.	0.4	1
30	Electron Holography of the Magnetic Phase Shift of a Current-Carrying Wire. <i>Microscopy and Microanalysis</i> , 2014, 20, 278-279.	0.4	1
31	Electron Transport in Partially Filled Iron Carbon Nanotubes. <i>Solid State Phenomena</i> , 2012, 190, 498-501.	0.3	0
32	Planar-defect characteristics and cross-sections of $\{001\}$ , $\{111\}$ , and $\{112\}$ InAs nanowires. <i>Journal of Applied Physics</i> , 2011, 109, 114320.	2.3	21
33	Enhancement of magneto-optical response in nanocomposite-hydrogenated amorphous silicon multilayers. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2008, 72, 1379-1381.	0.6	5