Iaroslav Gaponenko

List of Publications by Year
in descending order

18 papers	**944** citations	840776 **11** h-index	839539 **18** g-index
18 all docs	**18** docs citations	**18** times ranked	**1639** citing authors

#	Article	IF	Citations
1	Conduction at Domain Walls in Insulating Pb(Zr$_{0.2}$Ti$_{0.8}$)O$_3$ Thin Films. Advanced Materials, 2011, 23, 5377-5382.	21.0	334
2	Intrinsic Terahertz Plasmons and Magnetoplasmons in Large Scale Monolayer Graphene. Nano Letters, 2012, 12, 2470-2474.	9.1	224
3	Non-Ising and chiral ferroelectric domain walls revealed by nonlinear optical microscopy. Nature Communications, 2017, 8, 15768.	12.8	113
4	Persistent conductive footprints of 109° domain walls in bismuth ferrite films. Applied Physics Letters, 2014, 104, .	3.3	60
5	Surface charged species and electrochemistry of ferroelectric thin films. Nanoscale, 2019, 11, 17920-17930.	5.6	48
6	Towards reversible control of domain wall conduction in Pb(Zr0.2Ti0.8)O3 thin films. Applied Physics Letters, 2015, 106, .	3.3	33
7	Interactive Diffraction from Biological Nanostructures. Computer Graphics Forum, 2014, 33, 177-188.	3.0	27
8	Smart machine learning or discovering meaningful physical and chemical contributions through dimensional stacking. Npj Computational Materials, 2019, 5, .	8.7	15
9	Better, Faster, and Less Biased Machine Learning: Electromechanical Switching in Ferroelectric Thin Films. Advanced Materials, 2020, 32, 2002425.	21.0	15
10	Optimal ferromagnetically-coated carbon nanotube tips for ultra-high resolution magnetic force microscopy. Nanotechnology, 2013, 24, 105705.	2.6	14
11	Local Probe Comparison of Ferroelectric Switching Event Statistics in the Creep and Depinning Regimes in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Pb</mml:mi><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mrow><mml:mi>Zr</mml:mi></mml:mrow><mml:mrow><mml:mn>0.2</mml:mn><	7.8	13
12	Roughness and dynamics of proliferating cell fronts as a probe of cell–cell interactions. Scientific Reports, 2021, 11, 8869.	3.3	11
13	Computer vision distortion correction of scanning probe microscopy images. Scientific Reports, 2017, 7, 669.	3.3	10
14	Identification of a strong contamination source for graphene in vacuum systems. Nanotechnology, 2013, 24, 405201.	2.6	8
15	Low-noise humidity controller for imaging water mediated processes in atomic force microscopy. Review of Scientific Instruments, 2016, 87, 063709.	1.3	8
16	Correlative imaging of ferroelectric domain walls. Scientific Reports, 2022, 12, 165.	3.3	7
17	Hystorian: A processing tool for scanning probe microscopy and other n-dimensional datasets. Ultramicroscopy, 2021, 228, 113345.	1.9	3
18	Local and correlated studies of humidity-mediated ferroelectric thin film surface charge dynamics. Npj Computational Materials, 2021, 7, .	8.7	1