

# Olga Kazakova

## List of Publications by Year in descending order

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76  
papers

2,751  
citations

186265

28  
h-index

182427

51  
g-index

77  
all docs

77  
docs citations

77  
times ranked

4563  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards a quantum resistance standard based on epitaxial graphene. <i>Nature Nanotechnology</i> , 2010, 5, 186-189.	31.5	405
2	Standardization of surface potential measurements of graphene domains. <i>Scientific Reports</i> , 2013, 3, 2597.	3.3	198
3	Thickness-Dependent Hydrophobicity of Epitaxial Graphene. <i>ACS Nano</i> , 2015, 9, 8401-8411.	14.6	121
4	Frontiers of graphene and 2D material-based gas sensors for environmental monitoring. <i>2D Materials</i> , 2020, 7, 032002.	4.4	103
5	Mapping of Local Electrical Properties in Epitaxial Graphene Using Electrostatic Force Microscopy. <i>Nano Letters</i> , 2011, 11, 2324-2328.	9.1	82
6	Structural, optical and electrostatic properties of single and few-layers MoS <sub>2</sub> : effect of substrate. <i>2D Materials</i> , 2015, 2, 015005.	4.4	80
7	Individual skyrmion manipulation by local magnetic field gradients. <i>Communications Physics</i> , 2019, 2, .	5.3	74
8	Single Crystalline Ge <sub>1-x</sub> MnxNanowires as Building Blocks for Nanoelectronics. <i>Nano Letters</i> , 2009, 9, 50-56.	9.1	73
9	Room-temperature ferromagnetism in Ge <sub>1-x</sub> Mnxnanowires. <i>Physical Review B</i> , 2005, 72, .	3.2	71
10	Visualization of Grain Structure and Boundaries of Polycrystalline Graphene and Two-Dimensional Materials by Epitaxial Growth of Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2016, 10, 3233-3240.	14.6	70
11	Epitaxial Graphene and Graphene-Based Devices Studied by Electrical Scanning Probe Microscopy. <i>Crystals</i> , 2013, 3, 191-233.	2.2	69
12	Direct writing of room temperature and zero field skyrmion lattices by a scanning local magnetic field. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	68
13	Surface-Mediated Aligned Growth of Monolayer MoS <sub>2</sub> and In-Plane Heterostructures with Graphene on Sapphire. <i>ACS Nano</i> , 2018, 12, 10032-10044.	14.6	64
14	Classification of Magnetic Nanoparticle Systems—Synthesis, Standardization and Analysis Methods in the NanoMag Project. <i>International Journal of Molecular Sciences</i> , 2015, 16, 20308-20325.	4.1	59
15	Optimization of 2DEG InAs/GaSb Hall Sensors for Single Particle Detection. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 4480-4483.	2.1	58
16	Standardisation of magnetic nanoparticles in liquid suspension. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 383003.	2.8	56
17	Effects of humidity on the electronic properties of graphene prepared by chemical vapour deposition. <i>Carbon</i> , 2016, 103, 273-280.	10.3	53
18	Express Optical Analysis of Epitaxial Graphene on SiC: Impact of Morphology on Quantum Transport. <i>Nano Letters</i> , 2013, 13, 4217-4223.	9.1	51

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19	Carrier type inversion in quasi-free standing graphene: studies of local electronic and structural properties. <i>Scientific Reports</i> , 2015, 5, 10505.	3.3	47
20	Detection of Ultralow Concentration NO <sub>2</sub> in Complex Environment Using Epitaxial Graphene Sensors. <i>ACS Sensors</i> , 2018, 3, 1666-1674.	7.8	45
21	Atmospheric doping effects in epitaxial graphene: correlation of local and global electrical studies. <i>2D Materials</i> , 2016, 3, 015006.	4.4	43
22	Structural and Magnetic Characterization of Ge <sub>0.99</sub> Mn <sub>0.01</sub> Nanowire Arrays. <i>Chemistry of Materials</i> , 2005, 17, 3615-3619.	6.7	41
23	Excitonic Effects in Tungsten Disulfide Monolayers on Two-Layer Graphene. <i>ACS Nano</i> , 2016, 10, 7840-7846.	14.6	39
24	Synthesis and Characterization of Highly Ordered Cobalt-Magnetite Nanocable Arrays. <i>Small</i> , 2006, 2, 1299-1307.	10.0	38
25	Confocal laser scanning microscopy for rapid optical characterization of graphene. <i>Communications Physics</i> , 2018, 1, .	5.3	36
26	Visualisation of edge effects in side-gated graphene nanodevices. <i>Scientific Reports</i> , 2014, 4, 5881.	3.3	34
27	Anisotropic Magnetoresistance State Space of Permalloy Nanowires with Domain Wall Pinning Geometry. <i>Scientific Reports</i> , 2014, 4, 6045.	3.3	32
28	Identification of epitaxial graphene domains and adsorbed species in ambient conditions using quantified topography measurements. <i>Journal of Applied Physics</i> , 2012, 112, 054308.	2.5	30
29	Probing the magnetic properties of cobalt-germanium nanocable arrays. <i>Journal of Materials Chemistry</i> , 2005, 15, 2408.	6.7	28
30	Water Affinity to Epitaxial Graphene: The Impact of Layer Thickness. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500252.	3.7	28
31	Detection and susceptibility measurements of a single Dynal bead. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	25
32	Tunable magnetic properties of metal/metal oxide nanoscale coaxial cables. <i>Physical Review B</i> , 2006, 74, .	3.2	24
33	Engineering and metrology of epitaxial graphene. <i>Solid State Communications</i> , 2011, 151, 1094-1099.	1.9	23
34	Exploring graphene formation on the C-terminated face of SiC by structural, chemical and electrical methods. <i>Carbon</i> , 2014, 69, 221-229.	10.3	21
35	Local electric field screening in bi-layer graphene devices. <i>Frontiers in Physics</i> , 2014, 2, .	2.1	20
36	Electrical Homogeneity Mapping of Epitaxial Graphene on Silicon Carbide. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31641-31647.	8.0	20

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37	Nanoscale mapping of quasiparticle band alignment. Nature Communications, 2019, 10, 3283.	12.8	20
38	Temperature dependence of magnetization reversal in Co and Fe <sub>3</sub> O <sub>4</sub> nanowire arrays. Journal of Magnetism and Magnetic Materials, 2005, 286, 171-176.	2.3	19
39	Low contact resistance in epitaxial graphene devices for quantum metrology. AIP Advances, 2015, 5, .	1.3	19
40	Magnetic Scanning Probe Calibration Using Graphene Hall Sensor. IEEE Transactions on Magnetism, 2013, 49, 3520-3523.	2.1	18
41	Thermoelectric Signature of Individual Skyrmions. Physical Review Letters, 2021, 126, 077202.	7.8	18
42	Engineering the magnetic properties of Ge <sub>1-x</sub> Mnx nanowires. Journal of Applied Physics, 2007, 101, 09H108.	2.5	17
43	Modeling of Anisotropic Magnetoresistance Properties of Permalloy Nanostructures. IEEE Transactions on Magnetism, 2014, 50, 1-4.	2.1	17
44	Calibration of multi-layered probes with low/high magnetic moments. Scientific Reports, 2017, 7, 7224.	3.3	17
45	Probing the nanoscale origin of strain and doping in graphene-hBN heterostructures. 2D Materials, 2019, 6, 015022.	4.4	17
46	Role of substrate on interaction of water molecules with graphene oxide and reduced graphene oxide. Carbon, 2017, 122, 168-175.	10.3	16
47	Determination of tip transfer function for quantitative MFM using frequency domain filtering and least squares method. Scientific Reports, 2019, 9, 3880.	3.3	16
48	Comparison and Validation of Different Magnetic Force Microscopy Calibration Schemes. Small, 2020, 16, e1906144.	10.0	15
49	Magnetic imaging using geometrically constrained nano-domain walls. Nanoscale, 2019, 11, 4478-4488.	5.6	14
50	Single particle detection: Phase control in submicron Hall sensors. Journal of Applied Physics, 2010, 108, 103918.	2.5	13
51	Unusual magnetism in templated NiS nanoparticles. Journal of Physics Condensed Matter, 2010, 22, 076001.	1.8	13
52	Epitaxial Graphene Sensors for Detection of Small Magnetic Moments. IEEE Transactions on Magnetism, 2013, 49, 97-100.	2.1	13
53	Magnetic, Structural, and Particle Size Analysis of Single- and Multi-Core Magnetic Nanoparticles. IEEE Transactions on Magnetism, 2014, 50, 1-4.	2.1	13
54	Round robin comparison on quantitative nanometer scale magnetic field measurements by magnetic force microscopy. Journal of Magnetism and Magnetic Materials, 2020, 511, 166947.	2.3	13

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55	Imaging Bulk and Edge Transport near the Dirac Point in Graphene Moiré Superlattices. Nano Letters, 2018, 18, 2530-2537.	9.1	11
56	The route to single magnetic particle detection: a carbon nanotube decorated with a finite number of nanocubes. Nanotechnology, 2009, 20, 335301.	2.6	10
57	Phase diagram of magnetic states in nickel submicron disks. Journal of Applied Physics, 2015, 118, .	2.5	10
58	Electrostatic transparency of graphene oxide sheets. Carbon, 2015, 86, 188-196.	10.3	10
59	Towards standardisation of contact and contactless electrical measurements of CVD graphene at the macro-, micro- and nano-scale. Scientific Reports, 2020, 10, 3223.	3.3	10
60	Scanned micro-Hall microscope for detection of biofunctionalized magnetic beads. Applied Physics Letters, 2007, 90, 162502.	3.3	9
61	Synthesis and characterization of nanoparticulate MnS within the pores of mesoporous silica. Journal of Solid State Chemistry, 2007, 180, 3443-3449.	2.9	9
62	Switchable bi-stable multilayer magnetic probes for imaging of soft magnetic structures. Ultramicroscopy, 2017, 179, 41-46.	1.9	9
63	Surface potential variations in epitaxial graphene devices investigated by Electrostatic Force Spectroscopy. , 2012, , .		7
64	Strongly Absorbing Nanoscale Infrared Domains within Strained Bubbles at hBN/Graphene Interfaces. ACS Applied Materials & Interfaces, 2020, 12, 57638-57648.	8.0	7
65	Microwave magnetoresistance in Ge:Mn nanowires and nanofilms. Science and Technology of Advanced Materials, 2008, 9, 024207.	6.1	6
66	Magnetic Properties of Single Crystalline Ge <sub>1-x</sub> Mn <sub>x</sub> Nanowires. IEEE Transactions on Magnetics, 2009, 45, 4085-4088.	2.1	6
67	Influence of Geometry on Domain Wall Dynamics in Permalloy Nanodevices. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5
68	Probing exciton species in atomically thin WS <sub>2</sub> /graphene heterostructures. JPhys Materials, 2019, 2, 025001.	4.2	5
69	European Research on Magnetic Nanoparticles for Biomedical Applications: Standardisation Aspects. Advances in Intelligent Systems and Computing, 2020, , 316-326.	0.6	5
70	Synthesis and Magnetic Characterization of Coaxial Ge <sub>1-x</sub> Mn <sub>x</sub> /a-Si Heterostructures. Crystal Growth and Design, 2011, 11, 5253-5259.	3.0	4
71	Qualitative analysis of scanning gate microscopy on epitaxial graphene. 2D Materials, 2019, 6, 025023.	4.4	4
72	Probing Nanoscale Schottky Barrier Characteristics at WSe <sub>2</sub> /Graphene Heterostructures via Electrostatic Doping. Advanced Electronic Materials, 0, , 2200196.	5.1	3

#	ARTICLE	IF	CITATIONS
73	A Rapid Graphene Sensor Platform for the Detection of Viral Proteins in Low Volume Samples. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	3.6	2
74	Carbon Nanotube Bolometer: Transport Properties and Noise Characteristics. <i>Solid State Phenomena</i> , 0, 190, 510-513.	0.3	1
75	Contactless probing of graphene charge density variation in a controlled humidity environment. <i>Carbon</i> , 2020, 163, 408-416.	10.3	1
76	SUPERCRITICAL FLUID PROCESSING OF FUNCTIONAL OXIDE CORE-SHELL NANOCABLE ARRAYS. <i>Integrated Ferroelectrics</i> , 2007, 92, 77-86.	0.7	0