

# Oleksii M Volkov

## List of Publications by Year in descending order

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26  
papers

717  
citations

759233

12  
h-index

677142

22  
g-index

26  
all docs

26  
docs citations

26  
times ranked

857  
citing authors

#	ARTICLE	IF	CITATIONS
1	A bimodal soft electronic skin for tactile and touchless interaction in real time. <i>Nature Communications</i> , 2019, 10, 4405.	12.8	188
2	Topologically stable magnetization states on a spherical shell: Curvature-stabilized skyrmions. <i>Physical Review B</i> , 2016, 94, .	3.2	81
3	New Dimension in Magnetism and Superconductivity: 3D and Curvilinear Nanoarchitectures. <i>Advanced Materials</i> , 2022, 34, e2101758.	21.0	65
4	Multiplet of Skyrmion States on a Curvilinear Defect: Reconfigurable Skyrmion Lattices. <i>Physical Review Letters</i> , 2018, 120, 067201.	7.8	64
5	Experimental Observation of Exchange-Driven Chiral Effects in Curvilinear Magnetism. <i>Physical Review Letters</i> , 2019, 123, 077201.	7.8	57
6	Mesoscale Dzyaloshinskii-Moriya interaction: geometrical tailoring of the magnetochirality. <i>Scientific Reports</i> , 2018, 8, 866.	3.3	43
7	Flexible Magnetoreceptor with Tunable Intrinsic Logic for On-Skin Touchless Human-Machine Interfaces. <i>Advanced Functional Materials</i> , 2021, 31, 2101089.	14.9	38
8	Strain Anisotropy and Magnetic Domains in Embedded Nanomagnets. <i>Small</i> , 2019, 15, e1904738.	10.0	30
9	Concept of artificial magnetoelectric materials via geometrically controlling curvilinear helimagnets. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 345001.	2.8	24
10	Fundamentals of Curvilinear Ferromagnetism: Statics and Dynamics of Geometrically Curved Wires and Narrow Ribbons. <i>Small</i> , 2022, 18, e2105219.	10.0	19
11	Localization of magnon modes in a curved magnetic nanowire. <i>Low Temperature Physics</i> , 2018, 44, 634-643.	0.6	17
12	Magnetic vortex-antivortex crystals generated by spin-polarized current. <i>Physical Review B</i> , 2012, 86, .	3.2	13
13	Thermodynamics and Exchange Stiffness of Asymmetrically Sandwiched Ultrathin Ferromagnetic Films with Perpendicular Anisotropy. <i>Physical Review Applied</i> , 2019, 12, .	3.8	13
14	Spin-transfer torque and current-induced vortex superlattices in nanomagnets. <i>Physical Review B</i> , 2011, 84, .	3.2	11
15	Experimental and Theoretical Study of Curvature Effects in Parabolic Nanostripes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800309.	2.4	11
16	Periodic magnetization structures generated by transverse spin current in magnetic nanowires. <i>Physical Review B</i> , 2013, 87, .	3.2	9
17	Periodic magnetic structures generated by spin-polarized currents in nanostripes. <i>Applied Physics Letters</i> , 2013, 103, 222401.	3.3	8
18	Two Orders of Magnitude Boost in the Detection Limit of Droplet-Based Micro-Magnetofluidics with Planar Hall Effect Sensors. <i>ACS Omega</i> , 2020, 5, 20609-20617.	3.5	7

#	ARTICLE	IF	CITATIONS
19	From stripes to bubbles: Deterministic transformation of magnetic domain patterns in Co/Pt multilayers induced by laser helicity. <i>Physical Review B</i> , 2020, 102, .	3.2	6
20	Unidirectional tilt of domain walls in equilibrium in biaxial stripes with Dzyaloshinskii-Moriya interaction. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 395003.	2.8	5
21	Domain-Wall Damping in Ultrathin Nanostripes with Dzyaloshinskii-Moriya Interaction. <i>Physical Review Applied</i> , 2021, 15, .	3.8	5
22	Experimental and Theoretical Study of Curvature Effects in Parabolic Nanostripes (Phys. Status Solidi) <a href="https://doi.org/10.1002/pssb.202104710">https://doi.org/10.1002/pssb.202104710</a>	2.4	1
23	Nanomagnets: Strain Anisotropy and Magnetic Domains in Embedded Nanomagnets ( <i>Small</i> 52/2019). <i>Small</i> , 2019, 15, 1970287.	10.0	1
24	Flexible Magnetoreceptors: Flexible Magnetoreceptor with Tunable Intrinsic Logic for On-Skin Touchless Human-Machine Interfaces ( <i>Adv. Funct. Mater.</i> 25/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170184.	14.9	1
25	Effects of a spin-polarized current assisted Årsted field in magnetization patterning. <i>Journal of Applied Physics</i> , 2015, 117, 213910.	2.5	0
26	Two Orders of Magnitude Improvement in the Detection Limit of Droplet-Based Micro-Magnetofluidics with Planar Hall Effect Sensors. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	0