

Vitaly A Orlov

List of Publications by Year in descending order

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papers

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docs citations

35
times ranked

43
citing authors

#	ARTICLE	IF	CITATIONS
1	On the low-frequency resonance of magnetic vortices in micro- and nanodots. <i>Physics of the Solid State</i> , 2015, 57, 30-37.	0.6	19
2	A comparative analysis of the mechanisms of pinning of a domain wall in a nanowire. <i>Physics of the Solid State</i> , 2011, 53, 2441-2449.	0.6	16
3	Collective dynamics of magnetic vortices in an array of interacting nanodots. <i>JETP Letters</i> , 2015, 101, 562-567.	1.4	11
4	Scenarios of magnetization reversal of thin nanowires. <i>Physics of the Solid State</i> , 2015, 57, 2204-2212.	0.6	8
5	Magnetic Nanodiscs – A New Promising Tool for Microsurgery of Malignant Neoplasms. <i>Nanomaterials</i> , 2021, 11, 1459.	4.1	7
6	On the properties of a stochastic magnetic structure of low-dimensional ultradisperse ferromagnets. <i>Physics of Metals and Metallography</i> , 2006, 102, 485-493.	1.0	6
7	Ground state of the magnetization of nanowires. <i>Physics of Metals and Metallography</i> , 2010, 109, 120-129.	1.0	6
8	Properties of effective anisotropy of magnetic blocks in ultradisperse ferromagnets. <i>Physics of Metals and Metallography</i> , 2007, 103, 219-227.	1.0	5
9	Statistics of magnetization jumps in nanowires. <i>Physics of Metals and Metallography</i> , 2011, 111, 554-560.	1.0	4
10	Magnetostatics dualism in a one-dimensional chain of classical magnetic moments. <i>Physics of the Solid State</i> , 2011, 53, 1333-1339.	0.6	4
11	Statistics of irreversible displacements of domain walls in nanowires. <i>European Physical Journal B</i> , 2011, 83, 83-91.	1.5	4
12	On the resonant state of magnetization in array of interacting nanodots. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 440, 171-174.	2.3	4
13	Magnetization Dynamics in Two-Dimensional Arrays of Square Microelements. <i>Journal of Experimental and Theoretical Physics</i> , 2018, 126, 523-534.	0.9	4
14	Magnetic vortex near the extended linear magnetic inhomogeneity. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 533, 167999.	2.3	4
15	Interaction of a Magnetic Vortex with Magnetic Anisotropy Nonuniformity. <i>Journal of Experimental and Theoretical Physics</i> , 2020, 131, 589-599.	0.9	4
16	On the Effect of Magnetostatic Interaction on the Collective Motion of Vortex Domain Walls in a Pair of Nanostripes. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900113.	1.5	3
17	Correlation properties of the stochastic magnetic structure of ultradispersed ferromagnetic materials. <i>Physics of the Solid State</i> , 1999, 41, 1311-1314.	0.6	2
18	Mechanisms of Pinning of Domain Walls in Nanowires. <i>Solid State Phenomena</i> , 0, 168-169, 230-233.	0.3	2

#	ARTICLE	IF	CITATIONS
19	On the theory of the thermofluctuation motion of domain walls in nanowires. <i>Physics of Metals and Metallography</i> , 2013, 114, 631-641.	1.0	2
20	Simulation of the Brownian motion of the domain wall in a nonlinear force field of nanowires. <i>European Physical Journal B</i> , 2015, 88, 1.	1.5	2
21	Self-organization of the magnetization in ferromagnetic nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 440, 217-220.	2.3	2
22	Formation of a given distribution of anisotropy axes in ferromagnets with regular inhomogeneities. <i>Physics of the Solid State</i> , 2009, 51, 762-766.	0.6	1
23	Magnetic Structure of Nanowires and Magnetostatic Interaction. <i>Solid State Phenomena</i> , 0, 168-169, 269-272.	0.3	1
24	On magnetization stability of ferrimagnetic nanocylinder in ferroelectric matrix. <i>Physics of Metals and Metallography</i> , 2013, 114, 8-11.	1.0	1
25	On the simulation of the Brownian motion of a domain wall in nanowires. <i>Physics of the Solid State</i> , 2014, 56, 2430-2439.	0.6	1
26	Magnetic structures of permalloy film microspots. <i>Doklady Physics</i> , 2015, 60, 279-282.	0.7	1
27	Collective motion of magnetization in two-dimensional arrays of square elements. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	1
28	Features in the Resonance Behavior of Magnetization in Arrays of Triangular and Square Nanodots. <i>Journal of Siberian Federal University - Mathematics and Physics</i> , 2021, 14, 611-623.	0.3	1
29	On features of magnetization self-organization in 1D stochastic ferromagnetic systems. <i>European Physical Journal B</i> , 2017, 90, 1.	1.5	0
30	Motion of Coupled Magnetic Vortices in Parallel Nanostripes. <i>Physics of the Solid State</i> , 2019, 61, 361-369.	0.6	0
31	Dynamics of magnetization in an array of three-layer nanodiscs. <i>Journal of Physics: Conference Series</i> , 2019, 1389, 012005.	0.4	0
32	On the Hierarchy of the Characteristic Lengths of Nanowires Magnetization. <i>Journal of Siberian Federal University - Mathematics and Physics</i> , 2017, 10, 60-64.	0.3	0
33	Effect of Mechanical Stress on Structure of Magnetization of Three-Layer Nanosized Disks. <i>Physics of Metals and Metallography</i> , 2020, 121, 1039-1044.	1.0	0
34	The Drift of Magnetic Vortices in a Random Field of Anchoring Centers. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-10.	2.1	0
35	Spectrum of collective vibrations of vortex domain walls in a ferromagnetic nanostripe array. <i>European Physical Journal B</i> , 2022, 95, 1.	1.5	0