

Vitaly A Orlov

List of Publications by Year in descending order

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35
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docs citations

35
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43
citing authors

#	ARTICLE	IF	CITATIONS
1	The Drift of Magnetic Vortices in a Random Field of Anchoring Centers. IEEE Transactions on Magnetics, 2022, 58, 1-10.	2.1	0
2	Spectrum of collective vibrations of vortex domain walls in a ferromagnetic nanostripe array. European Physical Journal B, 2022, 95, 1.	1.5	0
3	Magnetic Nanodiscs – A New Promising Tool for Microsurgery of Malignant Neoplasms. Nanomaterials, 2021, 11, 1459.	4.1	7
4	Magnetic vortex near the extended linear magnetic inhomogeneity. Journal of Magnetism and Magnetic Materials, 2021, 533, 167999.	2.3	4
5	Features in the Resonance Behavior of Magnetization in Arrays of Triangular and Square Nanodots. Journal of Siberian Federal University - Mathematics and Physics, 2021, 14, 611-623.	0.3	1
6	Interaction of a Magnetic Vortex with Magnetic Anisotropy Nonuniformity. Journal of Experimental and Theoretical Physics, 2020, 131, 589-599.	0.9	4
7	Effect of Mechanical Stress on Structure of Magnetization of Three-Layer Nanosized Disks. Physics of Metals and Metallography, 2020, 121, 1039-1044.	1.0	0
8	On the Effect of Magnetostatic Interaction on the Collective Motion of Vortex Domain Walls in a Pair of Nanostripes. Physica Status Solidi (B): Basic Research, 2019, 256, 1900113.	1.5	3
9	Motion of Coupled Magnetic Vortices in Parallel Nanostripes. Physics of the Solid State, 2019, 61, 361-369.	0.6	0
10	Dynamics of magnetization in an array of three-layer nanodiscs. Journal of Physics: Conference Series, 2019, 1389, 012005.	0.4	0
11	Collective motion of magnetization in two-dimensional arrays of square elements. European Physical Journal B, 2018, 91, 1.	1.5	1
12	Magnetization Dynamics in Two-Dimensional Arrays of Square Microelements. Journal of Experimental and Theoretical Physics, 2018, 126, 523-534.	0.9	4
13	On the resonant state of magnetization in array of interacting nanodots. Journal of Magnetism and Magnetic Materials, 2017, 440, 171-174.	2.3	4
14	On features of magnetization self-organization in 1D stochastic ferromagnetic systems. European Physical Journal B, 2017, 90, 1.	1.5	0
15	Self-organization of the magnetization in ferromagnetic nanowires. Journal of Magnetism and Magnetic Materials, 2017, 440, 217-220.	2.3	2
16	On the Hierarchy of the Characteristic Lengths of Nanowires Magnetization. Journal of Siberian Federal University - Mathematics and Physics, 2017, 10, 60-64.	0.3	0
17	Simulation of the Brownian motion of the domain wall in a nonlinear force field of nanowires. European Physical Journal B, 2015, 88, 1.	1.5	2
18	On the low-frequency resonance of magnetic vortices in micro- and nanodots. Physics of the Solid State, 2015, 57, 30-37.	0.6	19

#	ARTICLE	IF	CITATIONS
19	Magnetic structures of permalloy film microspots. Doklady Physics, 2015, 60, 279-282.	0.7	1
20	Collective dynamics of magnetic vortices in an array of interacting nanodots. JETP Letters, 2015, 101, 562-567.	1.4	11
21	Scenarios of magnetization reversal of thin nanowires. Physics of the Solid State, 2015, 57, 2204-2212.	0.6	8
22	On the simulation of the Brownian motion of a domain wall in nanowires. Physics of the Solid State, 2014, 56, 2430-2439.	0.6	1
23	On magnetization stability of ferrimagnetic nanocylinder in ferroelectric matrix. Physics of Metals and Metallography, 2013, 114, 8-11.	1.0	1
24	On the theory of the thermofluctuation motion of domain walls in nanowires. Physics of Metals and Metallography, 2013, 114, 631-641.	1.0	2
25	Statistics of magnetization jumps in nanowires. Physics of Metals and Metallography, 2011, 111, 554-560.	1.0	4
26	Magnetostatics dualism in a one-dimensional chain of classical magnetic moments. Physics of the Solid State, 2011, 53, 1333-1339.	0.6	4
27	A comparative analysis of the mechanisms of pinning of a domain wall in a nanowire. Physics of the Solid State, 2011, 53, 2441-2449.	0.6	16
28	Statistics of irreversible displacements of domain walls in nanowires. European Physical Journal B, 2011, 83, 83-91.	1.5	4
29	Ground state of the magnetization of nanowires. Physics of Metals and Metallography, 2010, 109, 120-129.	1.0	6
30	Formation of a given distribution of anisotropy axes in ferromagnets with regular inhomogeneities. Physics of the Solid State, 2009, 51, 762-766.	0.6	1
31	Properties of effective anisotropy of magnetic blocks in ultradisperse ferromagnets. Physics of Metals and Metallography, 2007, 103, 219-227.	1.0	5
32	On the properties of a stochastic magnetic structure of low-dimensional ultradisperse ferromagnets. Physics of Metals and Metallography, 2006, 102, 485-493.	1.0	6
33	Correlation properties of the stochastic magnetic structure of ultradispersed ferromagnetic materials. Physics of the Solid State, 1999, 41, 1311-1314.	0.6	2
34	Mechanisms of Pinning of Domain Walls in Nanowires. Solid State Phenomena, 0, 168-169, 230-233.	0.3	2
35	Magnetic Structure of Nanowires and Magnetostatic Interaction. Solid State Phenomena, 0, 168-169, 269-272.	0.3	1