

Yaroslav Bazaliy

List of Publications by Year in descending order

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49
papers

2,410
citations

394421

19
h-index

233421

45
g-index

49
all docs

49
docs citations

49
times ranked

2013
citing authors

#	ARTICLE	IF	CITATIONS
1	Modification of the Landau-Lifshitz equation in the presence of a spin-polarized current in colossal- and giant-magnetoresistive materials. <i>Physical Review B</i> , 1998, 57, R3213-R3216.	3.2	437
2	Magnetization-Orientation Dependence of the Superconducting Transition Temperature in the Ferromagnet-Superconductor-Ferromagnet System:CuNi/Nb/CuNi. <i>Physical Review Letters</i> , 2002, 89, 267001.	7.8	306
3	Influence of Current on Field-Driven Domain Wall Motion in Permalloy Nanowires from Time Resolved Measurements of Anisotropic Magnetoresistance. <i>Physical Review Letters</i> , 2006, 96, 197207.	7.8	275
4	Extremal transmission at the Dirac point of a photonic band structure. <i>Physical Review A</i> , 2007, 75, .	2.5	221
5	Dynamics of Domain Walls in Magnetic Nanostrips. <i>Physical Review Letters</i> , 2008, 100, 127204.	7.8	214
6	Dynamics of a vortex domain wall in a magnetic nanostrip: Application of the collective-coordinate approach. <i>Physical Review B</i> , 2008, 78, .	3.2	115
7	Current-induced magnetization switching in small domains of different anisotropies. <i>Physical Review B</i> , 2004, 69, .	3.2	109
8	Magnetic and structural properties of spin-reorientation transitions in orthoferrites. <i>Journal of Applied Physics</i> , 2007, 101, 123919.	2.5	93
9	Spin-reorientation inErFeO ₃ :Zero-field transitions, three-dimensional phase diagram, and anisotropy of erbium magnetism. <i>Physical Review B</i> , 2004, 69, .	3.2	72
10	Towards metallic magnetic memory: How to interpret experimental results on magnetic switching induced by spin-polarized currents. <i>Journal of Applied Physics</i> , 2001, 89, 6793-6795.	2.5	63
11	Structural properties ofErFeO ₃ in the spin-reorientation region. <i>Physical Review B</i> , 2005, 72, .	3.2	49
12	The role of erbium magnetization anisotropy during the magnetic reorientation transition in ErFeO ₃ . <i>Journal of Applied Physics</i> , 2004, 95, 6622-6624.	2.5	42
13	Hall Effect in Nested Antiferromagnets near the Quantum Critical Point. <i>Physical Review Letters</i> , 2003, 90, 116601.	7.8	41
14	Magnetization-orientation dependence of the superconducting transition temperature calculated forFâˆ•Sâˆ•Ftrilayer structures. <i>Physical Review B</i> , 2004, 70, .	3.2	40
15	Measurements of spin reorientation inYbFeO ₃ and comparison with modified mean-field theory. <i>Physical Review B</i> , 2005, 72, .	3.2	36
16	Staggered Superconductivity inUPt ₃ : A New Phenomenological Approach. <i>Physical Review Letters</i> , 1995, 74, 2571-2574.	7.8	31
17	Mechanisms of magnetic and temperature hysteresis in ErFeO ₃ and TmFeO ₃ single crystals. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	23
18	Asymmetric ferromagnet-superconductor-ferromagnet switch. <i>Physical Review B</i> , 2008, 77, .	3.2	20

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19	Magnetotransport near a quantum critical point in a simple metal. Physical Review B, 2004, 69, .	3.2	19
20	Stripe Formation by Long Range Interactions within SO(5) Theory. Physical Review Letters, 1999, 83, 2413-2416.	7.8	18
21	Precession states in planar spin-transfer devices: The effective one-dimensional approximation. Physical Review B, 2007, 76, .	3.2	18
22	Search for the Resonance in Two-Particle Tunneling Experiments of YBCO Superconductors. Physical Review Letters, 1997, 79, 1921-1924.	7.8	16
23	Single-domain-wall states in millimeter-scale samples of ErFeO_3 . Physical Review B, 2009, 79, .	3.2	15
24	Phase diagram and optimal switching induced by spin Hall effect in a perpendicular magnetic layer. Physical Review B, 2015, 91, .	3.2	15
25	Orientation phase transition in Fe_3BO_6 : Experimental determination of the order of the transition. Physical Review B, 2006, 74, .	3.2	11
26	Two scenarios of spin-transfer switching and criteria for the corresponding threshold currents. Physical Review B, 2011, 84, .	3.2	11
27	Planar approximation for spin transfer systems with application to tilted polarizer devices. Physical Review B, 2012, 85, .	3.2	11
28	Lattice strain and heat capacity anomalies at the spin reorientation transitions of ErFeO_3 orthoferrite. Journal of Physics: Conference Series, 2009, 150, 042014.	0.4	9
29	Planar approximation for the frequencies of spin transfer oscillators. Physical Review B, 2011, 84, .	3.2	8
30	Modification of the Stoner-Wohlfarth astroid by a spin-polarized current: An exact solution. Physical Review B, 2013, 88, .	3.2	8
31	Planar Spin-Transfer Device with a Dynamic Polarizer. Journal of Nanoscience and Nanotechnology, 2008, 8, 2891-2896.	0.9	8
32	Plasticity of perfect crystals. Journal of Low Temperature Physics, 1992, 88, 101-133.	1.4	7
33	Magnetization dynamics in planar spin transfer devices and stabilization by repulsion in a spin-flip transistor. Applied Physics Letters, 2007, 91, 262510.	3.3	7
34	Analytic treatment of the precessional (ballistic) contribution to the conventional magnetic switching. Journal of Applied Physics, 2011, 110, .	2.5	7
35	Structural properties of TmFeO_3 in the spontaneous reorientation region. Low Temperature Physics, 2006, 32, 779-782.	0.6	6
36	Magnetic impurity in a superconductor: Local phase transitions and finite size effects. Journal of Applied Physics, 2000, 87, 5561-5563.	2.5	5

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37	Macrospin model to explain the absence of preswitching oscillations in magnetic tunnel junctions: Fieldlike spin-transfer torque. <i>Physical Review B</i> , 2009, 79, .	3.2	5
38	Ballistic (precessional) contribution to the conventional magnetic switching. <i>Applied Physics Letters</i> , 2011, 98, 142501.	3.3	4
39	Electron-phonon-surface scattering in Ga. <i>Physical Review B</i> , 1999, 59, 12431-12434.	3.2	3
40	Triangular hysteresis loops in the spin-rotation region of orthoferrites. <i>Low Temperature Physics</i> , 2010, 36, 798-801.	0.6	3
41	Comment on "Metastable state in a shape-anisotropic single-domain nanomagnet subjected to spin-transfer-torque" [Appl. Phys. Lett. 101, 162405 (2012)]. <i>Applied Physics Letters</i> , 2014, 105, 116101.	3.3	3
42	On the pitfalls of applying isotropic mobility spectrum analysis to conductors with weak anisotropy. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	3
43	One-dimensional free boundary problem for actin-based propulsion of <i>Listeria</i> . <i>Journal of Mathematical Analysis and Applications</i> , 2007, 328, 84-100.	1.0	1
44	Anomalous stabilization in a spin-transfer system at high spin polarization. <i>Journal of Applied Physics</i> , 2009, 105, 07D114.	2.5	1
45	Double magnetic reorientation transition in thin garnet films. <i>Physical Review Research</i> , 2020, 2, .	3.6	1
46	Common Aspects of the Magnetization Behavior of the $\hat{I}^4 \hat{a}^{\dagger} \hat{I}^2 \hat{a}^{\dagger} \hat{I}^2$ Phase Transitions in Orthoferrites. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
47	Local injection of pure spin current generates electric current vortices. <i>Applied Physics Letters</i> , 2017, 110, 092405.	3.3	0
48	Reciprocity in diffusive spin-current circuits. <i>Physical Review B</i> , 2019, 99, .	3.2	0
49	Energy Considerations in a Model of Nematode Sperm Crawling. <i>Mathematical Biosciences and Engineering</i> , 2006, 3, 347-370.	1.9	0