

# Vasily A Bautin

## List of Publications by Year in descending order

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34  
papers

799  
citations

759233

12  
h-index

501196

28  
g-index

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all docs

34  
docs citations

34  
times ranked

819  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of selective laser melting irregular open-cell titanium lattice structure to mimic the human cancellous bone. <i>Progress in Additive Manufacturing</i> , 2022, 7, 1287-1295.	4.8	2
2	Properties of assembly of superparamagnetic nanoparticles in viscous liquid. <i>Scientific Reports</i> , 2021, 11, 6999.	3.3	17
3	In situ giant- magnetoimpedance magnetometer measurement of weak magnetic fields produced by pitting corrosion on AISI 304 stainless steel surface. <i>Surfaces and Interfaces</i> , 2021, 23, 100993.	3.0	1
4	Effect of Heat Treatment on the Mechanical and Corrosion Properties of Mgâ€Znâ€Ga Biodegradable Mg Alloys. <i>Materials</i> , 2021, 14, 7847.	2.9	8
5	Cavitation Assisted Production of Assemblies of Magnetic Nanoparticles of High Chemical Purity. <i>Jom</i> , 2020, 72, 509-516.	1.9	0
6	Magnetostatic properties of assembly of magnetic vortices. <i>Physica B: Condensed Matter</i> , 2020, 582, 411964.	2.7	2
7	Highly oriented ferromagnetic polymers based on Co- and Fe-rich amorphous microwires. <i>Composites Communications</i> , 2020, 22, 100459.	6.3	3
8	Design of Mg Zn Si Ca casting magnesium alloy with high thermal conductivity. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 184-191.	11.9	31
9	Gallium-containing magnesium alloy for potential use as temporary implants in osteosynthesis. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 352-363.	11.9	33
10	Effects of small additions of Zn on the microstructure, mechanical properties and corrosion resistance of WE43B Mg alloys. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 858-868.	4.9	20
11	Co-rich Amorphous Microwires with Improved Giant Magnetoimpedance Characteristics Due to Glass Coating Etching. <i>Jom</i> , 2019, 71, 3113-3118.	1.9	7
12	Dynamics of superparamagnetic nanoparticles in viscous liquids in rotating magnetic fields. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 2294-2303.	2.8	7
13	Properties of polycrystalline nanoparticles with uniaxial and cubic types of magnetic anisotropy of individual grains. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 460, 278-284.	2.3	5
14	Magnetic Vortices as Efficient Nano Heaters in Magnetic Nanoparticle Hyperthermia. <i>Scientific Reports</i> , 2018, 8, 1224.	3.3	60
15	Glass shell etching to control residual quenching stress in Co-rich amorphous ferromagnetic microwires. <i>Journal of Alloys and Compounds</i> , 2018, 731, 18-23.	5.5	7
16	Chemically Synthesized FeCo Powder for Advanced Applications. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 3371-3378.	1.8	3
17	Magnetic properties of polycrystalline cobalt nanoparticles. <i>AIP Advances</i> , 2017, 7, .	1.3	28
18	Influence of surface anisotropy on magnetization distribution in thin magnetic films. <i>Journal of Applied Physics</i> , 2017, 121, 133905.	2.5	8

#	ARTICLE	IF	CITATIONS
19	Microstructure and Magnetic Properties of Bulk FeCo Alloys Fabricated from Mechanically Alloying and Chemically Synthesized Powders. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1281-1286.	1.8	2
20	Universal behavior of dense clusters of magnetic nanoparticles. AIP Advances, 2016, 6, .	1.3	13
21	Soliton collisions in soft magnetic nanotube with uniaxial anisotropy. AIP Advances, 2016, 6, 055009.	1.3	1
22	A high-sensitivity scanning magnetometer based on the giant magneto-impedance effect for measuring local magnetic fields of corrosion currents. Technical Physics Letters, 2016, 42, 520-523.	0.7	4
23	Investigation of quasi-stationary magnetic fields of corrosion currents of zinc-copper cells using giant magneto-impedance magnetometer. Corrosion Science, 2016, 109, 257-262.	6.6	7
24	Measurement of weak magnetic field of corrosion current of isolated corrosion center. AIP Advances, 2015, 5, .	1.3	12
25	Magnetostatic interactions in various magnetosome clusters. Journal of Applied Physics, 2013, 113, 023907.	2.5	17
26	Giant magneto-impedance effect in amorphous ferromagnetic wire with a weak helical anisotropy: Theory and experiment. Journal of Applied Physics, 2013, 113, .	2.5	29
27	Effective magnetic anisotropy of annealed FePt nanoparticles. Applied Physics Letters, 2012, 101, 172402.	3.3	8
28	Magnetic nanoparticles with combined anisotropy. Journal of Applied Physics, 2012, 112, .	2.5	37
29	Low frequency hysteresis loops of superparamagnetic nanoparticles with uniaxial anisotropy. Journal of Applied Physics, 2010, 107, .	2.5	114
30	Magnetostatic properties of Co-rich amorphous microwires: theory and experiment. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1800-1804.	1.8	12
31	Nucleation field of a soft magnetic nanotube with uniaxial anisotropy. Journal of Applied Physics, 2008, 104, .	2.5	12
32	Model concepts on the mechanism of microarc oxidation of metal materials and the control over this process. Protection of Metals, 2006, 42, 158-169.	0.2	62
33	Effective single-domain diameter of a fine non-ellipsoidal particle. Journal Physics D: Applied Physics, 2002, 35, 2081-2085.	2.8	7
34	Residual quenching stresses in glass-coated amorphous ferromagnetic microwires. Journal Physics D: Applied Physics, 2000, 33, 1161-1168.	2.8	220