Sergey M Ryabchenko

List of Publications by Year
in descending order

87	940	471509 17	552781 26
papers	citations	h-index	g-index

87	87	87	787
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energy transfer from photocarriers into the magnetic ion system mediated by a two-dimensional electron gas in (Cd,Mn)Te/(Cd,Mg)Te quantum wells. Physical Review B, 2000, 61, 16870-16882.	3.2	88
2	Electromagneto-optical effects on local areas of a ferrite-garnet film. Physical Review B, 2005, 71, .	3.2	41
3	Mechanisms of AC losses in magnetic fluids based on substituted manganites. Physical Chemistry Chemical Physics, 2015, 17, 18087-18097.	2.8	35
4	The influence of intergranular interaction on the magnetization of the ensemble of oriented Stonerâ€“Wohlfarth nanoparticles. Journal of Applied Physics, 2009, 105, 083905.	2.5	33
5	Magnetic-field and temperature dependence of the critical current in thin epitaxial films of the high-temperature superconductor YBa2Cu3O7â˜Î´. Low Temperature Physics, 2002, 28, 172-183.	0.6	30
6	Nickel-zinc spinel nanoferrites: Magnetic characterization and prospects of the use in self-controlled magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2019, 473, 422-427.	2.3	30
7	Microwave absorption in a thinLa0.7Sr0.3MnO3film: Manifestation of colossal magnetoresistance. Physical Review B, 2004, 69, .	3.2	29
8	Temperature dependence of the critical current in high-Tc superconductors with low-angle boundaries between crystalline blocks. Low Temperature Physics, 2001, 27, 96-102.	0.6	28
9	Mechanisms of limitation and nature of field dependence of critical current in HTS epitaxial YBaCUO films. IEEE Transactions on Applied Superconductivity, 2003, 13, 3714-3717.	1.7	28
10	Magnetic anisotropy in magnetoactive elastomers, enabled by matrix elasticity. Polymer, 2019, 162, 63-72.	3.8	27
11	Temperature-dependent magnetic properties of a magnetoactive elastomer: Immobilization of the soft-magnetic filler. Journal of Applied Physics, 2018, 123, .	2.5	26
12	Giant Spin Splitting of Exciton States in ZnSe with Mn and Fe Impurities. Physica Status Solidi (B): Basic Research, 1980, 102, 603-609.	1.5	25
13	Vacancy-induced enhancement of magnetic interactions in (Ca, Na)-doped lanthanum manganites. Journal of Applied Physics, 2007, 102, 063902.	2.5	25
14	On the cause of the electrical activity of superfluid helium upon excitation of a second sound wave and normal-component velocity oscillations in it. Low Temperature Physics, 2007, 33, 8-14.	0.6	24
15	Magnetic properties of La0.7Sr0.3MnO3 nanopowders. Low Temperature Physics, 2008, 34, 436-445.	0.6	22
16	Growth-induced perpendicular anisotropy of grains in Co-Al-O nanogranular ferromagnetic films. Physics of the Solid State, 2011, 53, 494-503.	0.6	20
17	Coercivity anomaly in the superferromagnetic state of an ensemble of nanoparticles with oriented anisotropy. Journal of Applied Physics, 2010, 108, .	2.5	19
18	Magnetic-field affected luminescence of Mn2+ ions in Zn1â˜'xMnxSe compounds under resonance excitation of excitons. Solid State Communications, 1991, 78, 1069-1072.	1.9	16

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19	Effects of photoluminescence polarization in semiconductor quantum wells subjected to an in-plane magnetic field. Physical Review B, 2003, 68, .	3.2	16
20	Interplay between superparamagnetic and blocked behavior in an ensemble of lanthanumâ€“strontium manganite nanoparticles. Physical Chemistry Chemical Physics, 2017, 19, 27015-27024.	2.8	16
21	Intergranular interactions in nanogranular (CoFeB)xâ€“(SiO2)1âˆ’x films with temperature and angular variations in coercivity. Low Temperature Physics, 2010, 36, 682-692.	0.6	15
22	Carrier-ion exchange interactions in crystals Cd1âˆ’xCoxTe. Solid State Communications, 1997, 101, 397-402.	1.9	14
23	Magnetic field dependence of the critical current density in thin epitaxial HTS YBa2Cu3O7âˆ’Î´ films with dislocation low-angle domain boundaries. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1091-1094.	1.2	14
24	Optically detected magnetic resonance in (Zn,Mn)Se/(Zn,Be)Se quantum wells. Physical Review B, 2008, 78, .	3.2	14
25	Simulation of the magnetization reversal of an ensemble of single-domain particles in measurements with a continuous sweep of the magnetic field or temperature. Low Temperature Physics, 2008, 34, 446-457.	0.6	13
26	Temperature Dependence of Nuclear Quadrupole Resonance in Layerâ€Type Crystals. Physica Status Solidi (B): Basic Research, 1976, 76, 183-189.	1.5	12
27	Magnetoelasticity and domain structure in antiferromagnetic crystals of the iron-group dihalides. Low Temperature Physics, 2005, 31, 794-806.	0.6	12
28	Exchange-Scattering Effects on Band Energies in Magnetically Mixed Semiconductors. Physica Status Solidi (B): Basic Research, 1987, 144, 661-673.	1.5	11
29	Low-temperature ferromagnetic resonance in epitaxial garnet films on paramagnetic substrates. Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika), 1989, 32, 276-280.	0.0	11
30	The role of defects in the formation of the multidomain state of easy-plane antiferromagnets with magnetoelastic interaction. Journal of Experimental and Theoretical Physics, 2004, 99, 1054-1064.	0.9	11
31	Positive magnetoresistance in granular magnetic films with perpendicular anisotropy. Journal of Applied Physics, 2011, 110, 113918.	2.5	11
32	Critical behavior of ensembles of superparamagnetic nanoparticles with dispersions of magnetic parameters. Journal of Physics Condensed Matter, 2019, 31, 375801.	1.8	11
33	Analysis of the temperatureâ€“field dependence of the magnetostriction in the antiferromagnetic phase of the easy-plane antiferromagnet CoCl2. Low Temperature Physics, 2000, 26, 489-493.	0.6	10
34	Investigations of the magnetic properties of the granular system Co0.6(Al2On)0.4 possessing isotropic positive magnetoresistance. Low Temperature Physics, 2007, 33, 974-986.	0.6	10
35	Critical currents in YBa2Cu3O7âˆ’x high-temperature superconducting thin films irradiated by 4-MeV electrons. Low Temperature Physics, 2000, 26, 464-466.	0.6	9
36	Time-resolved optically-detected magnetic resonance of II-VI diluted-magnetic-semiconductor heterostructures. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 174-178.	1.8	9

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37	Low-temperature onset of the spin glass correlations in the ensemble of oriented Stonerâ€“Wohlfarth nanoparticles. Journal of Applied Physics, 2010, 108, 033919.	2.5	9
38	Influence of the demagnetizing factor on the magnetization of an ensemble of Stoner-Wohlfarth particles. Journal of Experimental and Theoretical Physics, 2011, 112, 441-450.	0.9	9
39	Unusual magnetic behavior of La1â^'xCaxCoO3â^'y. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1097-1098.	1.2	7
40	Magneto-optical investigations of dilutedCd1â^'xMnxSmagnetic semiconductors in theB-exciton region. Physical Review B, 1997, 56, 1868-1875.	3.2	7
41	Combination of Hartree and Ritz approaches for problem of excitons in semiconductor quantum wells. Additional exciton states. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 8, 275-280.	2.7	7
42	Features of the angular dependence of the critical current in thin epitaxial films of HTSC YBa2Cu3O7â^'Î´ in a magnetic field. Low Temperature Physics, 2003, 29, 630-641.	0.6	7
43	Effect of Interaction in the Magnetization Reversal Relaxation of Superparamagnetic Granular CoFeB -SiO₂ Films. Solid State Phenomena, 0, 152-153, 213-216.	0.3	7
44	Equilibrium magnetization of a nanogranular magnetic film with perpendicular anisotropy in a tilted magnetic field. Low Temperature Physics, 2012, 38, 199-205.	0.6	7
45	Resonantly enhanced spin-lattice relaxation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Mn</mml:mi></mml:mrow><mml:mrow> in diluted magnetic (Zn,Mn)Se/(Zn,Be)Se quantum wells. Physical Review B, 2016, 93, .	3.2	7
46	Temperature blocking and magnetization of magnetoactive elastomers. Journal of Magnetism and Magnetic Materials, 2019, 471, 464-467.	2.3	7
47	NQR investigation of intercalation of layered halides with organic compounds. Journal of Molecular Structure, 1982, 83, 353-356.	3.6	6
48	Nature of magnetic field and angular dependencies of the critical current density in epitaxial HTS YBa2Cu3O7â^'Î´ films. Physica C: Superconductivity and Its Applications, 2003, 388-389, 431-432.	1.2	6
49	Features of ferromagnetic resonance in nanogranular films with perpendicular anisotropy of particles. Journal of Applied Physics, 2011, 109, 043903-043903-11.	2.5	6
50	Diluted magnetic semiconductor effects in Mn-implanted silicon carbide. Journal of Applied Physics, 2011, 109, 083936.	2.5	6
51	Rotatable magnetic anisotropy in Si/SiO₂/(Co₂Fe)_xGe_{1â^'x}Heusler alloy films. Journal of Physics Condensed Matter, 2013, 25, 416003.	1.8	6
52	The magnetization processes and critical transition in a nanogranular magnetic film with perpendicular anisotropy. Journal of Physics Condensed Matter, 2013, 25, 066009.	1.8	6
53	Magnetic properties and anisotropic coercivity in nanogranular films of Co/Al2O3above the percolation limit. Journal Physics D: Applied Physics, 2014, 47, 345002.	2.8	6
54	Magnetic anisotropy of epitaxial Co2Fe-Ge Heusler alloy films on MgO (100) substrates. AIP Advances, 2017, 7, 055831.	1.3	6

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55	EPE and spin-flip Raman scattering in the n-type magnetically mixed semiconductors. Physica Status Solidi (B): Basic Research, 1986, 134, 281-288.	1.5	5
56	On the theory of carrier-induced ferromagnetism in diluted magnetic semiconductors. Low Temperature Physics, 2000, 26, 886-889.	0.6	4
57	Optical polarization anisotropy of quantum wells induced by a cubic anisotropy of the host material. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 24-35.	2.7	4
58	Features of vortex pinning and magnetic flux creep in epitaxial thin films of high-Tc superconductor YBa2Cu3O7â˜Î´ near the critical temperature. Low Temperature Physics, 2006, 32, 832-837.	0.6	4
59	Magnetic flux creep in YBa2Cu3O7â˜Î´ high-Tc superconducting thin films near the critical temperature. Low Temperature Physics, 2006, 32, 205-213.	0.6	4
60	Exactly solvable model for carrier-induced paramagnetic-ferromagnetic phase transition in diluted magnetic semiconductors. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 10, 165-169.	2.7	3
61	Field behavior of the critical current in quasi-single-crystalline YBCO films. Physica C: Superconductivity and Its Applications, 2004, 401, 316-319.	1.2	3
62	Critical magnetization and hysteresis of nanogranular films with perpendicular anisotropy. Journal of Experimental and Theoretical Physics, 2014, 118, 284-296.	0.9	3
63	Hysteresis, critical fields and superferromagnetism of the film with perpendicular anisotropy. Journal of Magnetism and Magnetic Materials, 2016, 411, 18-28.	2.3	3
64	Manganite Nanoparticles as Promising Heat Mediators for Magnetic Hyperthermia: Comparison of Different Chemical Substitutions. Acta Physica Polonica A, 2018, 133, 1017-1020.	0.5	3
65	Features of electric field effect in NQR and phase transition in crystals of pyrargyrite. Journal of Molecular Structure, 1982, 83, 85-88.	3.6	2
66	Wide temperature range study of multilayer Feâ•Auâ•Tb films. Journal of Applied Physics, 2006, 99, 08C904.	2.5	2
67	Features of the temperature dependence and magnetic-field dependence of the critical current density close to the critical temperature in YBa2Cu3O7â˜Î´ thin films. Low Temperature Physics, 2010, 36, 81-91.	0.6	2
68	Monte-Carlo calculation of the coercive force and phase transitions in ensembles of Stoner-Wohlfarth particles with exchange interactions. Low Temperature Physics, 2017, 43, 359-366.	0.6	2
69	Hysteresis of magnetization reversal loops in films with perpendicular anisotropy in an inclined magnetic field. Low Temperature Physics, 2017, 43, 1260-1270.	0.6	2
70	In-Plane Anisotropy Effect on Critical Transition Field in Nanogranular Films with Perpendicular Anisotropy. Ukrainian Journal of Physics, 2015, 60, 52-63.	0.2	2
71	Microwave-optical double resonance and magnetic circular dichroism of photochromic centres in CaF2:Ce. Physica Status Solidi (B): Basic Research, 1975, 68, 783-790.	1.5	1
72	Features of NQR relaxation in Bi12SiO20. Journal of Molecular Structure, 1982, 83, 105-108.	3.6	1

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73	Effect of multidomain structure on the field dependences of magnetization and forced striction in easy-plane antiferromagnets. Physics of the Solid State, 2004, 46, 326-334.	0.6	1
74	Diluted Magnetic Semiconductor Investigations in Ukraine. Nature of Some Additional Lines in QW Optical Spectra. Acta Physica Polonica A, 1998, 94, 165-176.	0.5	1
75	Excitons in tunnel coupled CdTe and (Cd,Mn)Te quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2017, 14, 1700124.	0.8	1
76	Nuclear quadrupole resonance spectrometer pick-up for the range 130â€“320 Mc/s for low temperature measurements. Cryogenics, 1965, 5, 43-45.	1.7	0
77	<title>Magnetoreflectance study of interfaces in Cd<formula><inf><roman>1-x</roman></inf></formula>Mn<formula><inf><roman>x</roman></inf></formula>Te/CdTe/Cd<formula> structures</title>. , 1997, 3182, 408.		
78	Investigation of the structure of the edge of the valence band of Cd1âˆ’x MnxS crystals on the basis of magnetooptical measurements. Semiconductors, 1997, 31, 58-62.	0.5	0
79	Control of Electron-Spin Precession in Quantum Well Through the E Field Influence on the Interface Asymmetry. AIP Conference Proceedings, 2005, , .	0.4	0
80	Characteristics of the magnetic ordering of FeâˆAuâˆTb multilayer films. Low Temperature Physics, 2007, 33, 329-335.	0.6	0
81	AC losses in La<inf>1−x</inf>Sr<inf>x</inf>MnO<inf>3</inf> nanoparticles fabricated by different technological routes. , 2014, , .		0
82	Quasistatic Magnetic Properties and Dynamic Hysteretic Losses in (La,Sr)MnO₃ Nanoparticles Fabricated by Different Technological Routes. Solid State Phenomena, 0, 230, 101-107.	0.3	0
83	Magnetotransport properties of nanogranular composites with low-field positive magnetoresistance. Low Temperature Physics, 2020, 46, 792-797.	0.6	0
84	Co-Manifestation of Interfaces Asymmetry and Magnetic Field Influence on Luminescence Polarization Anisotropy of [100]-Oriented QW with Semimagnetic Barriers. , 2003, , 247-258.		0
85	Effects of Photoluminescence Polarization in Semiconductor Quantum Well Subjected to In-Plane Magnetic Field. Acta Physica Polonica A, 2004, 105, 537-545.	0.5	0
86	The Corresponding Member of the NAS of Ukraine Anatolii Mykolayovych Pogorilyi (to the 70-th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	0.2	0
87	To the 100-th Anniversary of Kirill Borisovich Tolpygoâ€™s Birthday (May 3, 1916â€“May 13, 1994).. Ukrainian Journal of Physics, 2016, 61, 459-462.	0.2	0