

# Sergey M Ryabchenko

## List of Publications by Year in descending order

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87  
papers

940  
citations

471509

17  
h-index

552781

26  
g-index

87  
all docs

87  
docs citations

87  
times ranked

787  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetotransport properties of nanogranular composites with low-field positive magnetoresistance. <i>Low Temperature Physics</i> , 2020, 46, 792-797.	0.6	0
2	Critical behavior of ensembles of superparamagnetic nanoparticles with dispersions of magnetic parameters. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 375801.	1.8	11
3	Magnetic anisotropy in magnetoactive elastomers, enabled by matrix elasticity. <i>Polymer</i> , 2019, 162, 63-72.	3.8	27
4	Nickel-zinc spinel nanoferrites: Magnetic characterization and prospects of the use in self-controlled magnetic hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 473, 422-427.	2.3	30
5	Temperature blocking and magnetization of magnetoactive elastomers. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 471, 464-467.	2.3	7
6	Temperature-dependent magnetic properties of a magnetoactive elastomer: Immobilization of the soft-magnetic filler. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	26
7	Manganite Nanoparticles as Promising Heat Mediators for Magnetic Hyperthermia: Comparison of Different Chemical Substitutions. <i>Acta Physica Polonica A</i> , 2018, 133, 1017-1020.	0.5	3
8	Magnetic anisotropy of epitaxial Co <sub>2</sub> Fe-Ge Heusler alloy films on MgO (100) substrates. <i>AIP Advances</i> , 2017, 7, 055831.	1.3	6
9	Monte-Carlo calculation of the coercive force and phase transitions in ensembles of Stoner-Wohlfarth particles with exchange interactions. <i>Low Temperature Physics</i> , 2017, 43, 359-366.	0.6	2
10	Interplay between superparamagnetic and blocked behavior in an ensemble of lanthanum-strontium manganite nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27015-27024.	2.8	16
11	Hysteresis of magnetization reversal loops in films with perpendicular anisotropy in an inclined magnetic field. <i>Low Temperature Physics</i> , 2017, 43, 1260-1270.	0.6	2
12	Excitons in tunnel coupled CdTe and (Cd,Mn)Te quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2017, 14, 1700124.	0.8	1
13	Resonantly enhanced spin-lattice relaxation of $\langle \text{Mn} \rangle$ in diluted magnetic (Zn,Mn)Se/(Zn,Be)Se quantum wells. <i>Physical Review B</i> , 2016, 93, .	0.2	0
14	Hysteresis, critical fields and superferromagnetism of the film with perpendicular anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 411, 18-28.	2.3	3
15	To the 100-th Anniversary of Kirill Borisovich Tolpygo's Birthday (May 3, 1916–May 13, 1994).. <i>Ukrainian Journal of Physics</i> , 2016, 61, 459-462.	0.2	0
16	Mechanisms of AC losses in magnetic fluids based on substituted manganites. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18087-18097.	2.8	35
17	In-Plane Anisotropy Effect on Critical Transition Field in Nanogranular Films with Perpendicular Anisotropy. <i>Ukrainian Journal of Physics</i> , 2015, 60, 52-63.	0.2	2
18	AC losses in La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> nanoparticles fabricated by different technological routes. , 2014, , .		0

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19	Magnetic properties and anisotropic coercivity in nanogranular films of Co/Al <sub>2</sub> O <sub>3</sub> above the percolation limit. Journal Physics D: Applied Physics, 2014, 47, 345002.	2.8	6
20	Critical magnetization and hysteresis of nanogranular films with perpendicular anisotropy. Journal of Experimental and Theoretical Physics, 2014, 118, 284-296.	0.9	3
21	Rotatable magnetic anisotropy in Si/SiO <sub>2</sub> /((Co <sub>2</sub> Fe) <sub>x</sub> /Ge <sub>1-x</sub> ) <sup>n</sup> Heusler alloy films. Journal of Physics Condensed Matter, 2013, 25, 416003.	1.8	6
22	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
23	The Corresponding Member of the NAS of Ukraine Anatolii Mykolayovych Pogorilyi (to the 70-th) Tj ETQq1 1 0.784314 rgBT /Overlock 1 0.2	0.2	0
24	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
25	Positive magnetoresistance in granular magnetic films with perpendicular anisotropy. Journal of Applied Physics, 2011, 110, 113918.	2.5	11
26	Features of ferromagnetic resonance in nanogranular films with perpendicular anisotropy of particles. Journal of Applied Physics, 2011, 109, 043903-043903-11.	2.5	6
27	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
28	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
29	Diluted magnetic semiconductor effects in Mn-implanted silicon carbide. Journal of Applied Physics, 2011, 109, 083936.	2.5	6
30	Low-temperature onset of the spin glass correlations in the ensemble of oriented Stoner-Wohlfarth nanoparticles. Journal of Applied Physics, 2010, 108, 033919.	2.5	9
31	Features of the temperature dependence and magnetic-field dependence of the critical current density close to the critical temperature in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films. Low Temperature Physics, 2010, 36, 81-91.	0.6	2
32	Intergranular interactions in nanogranular (CoFeB) <sub>x</sub> (SiO <sub>2</sub> ) <sub>1-x</sub> films with temperature and angular variations in coercivity. Low Temperature Physics, 2010, 36, 682-692.	0.6	15
33	Coercivity anomaly in the superferromagnetic state of an ensemble of nanoparticles with oriented anisotropy. Journal of Applied Physics, 2010, 108, .	2.5	19
34	The influence of intergranular interaction on the magnetization of the ensemble of oriented Stoner-Wohlfarth nanoparticles. Journal of Applied Physics, 2009, 105, 083905.	2.5	33
35	Magnetic properties of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> nanopowders. Low Temperature Physics, 2008, 34, 436-445.	0.6	22
36	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

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37	Optically detected magnetic resonance in (Zn,Mn)Se/(Zn,Be)Se quantum wells. Physical Review B, 2008, 78, .	3.2	14
38	Characteristics of the magnetic ordering of Fe <sup>2+</sup> •Au <sup>2+</sup> •Tb multilayer films. Low Temperature Physics, 2007, 33, 329-335.	0.6	0
39	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
40	Vacancy-induced enhancement of magnetic interactions in (Ca, Na)-doped lanthanum manganites. Journal of Applied Physics, 2007, 102, 063902.	2.5	25
41	Investigations of the magnetic properties of the granular system Co <sub>0.6</sub> (Al <sub>2</sub> O <sub>3</sub> ) <sub>0.4</sub> possessing isotropic positive magnetoresistance. Low Temperature Physics, 2007, 33, 974-986.	0.6	10
42	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
43	Features of vortex pinning and magnetic flux creep in epitaxial thin films of high-T <sub>c</sub> superconductor YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> near the critical temperature. Low Temperature Physics, 2006, 32, 832-837.	0.6	4
44	Magnetic flux creep in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> high-T <sub>c</sub> superconducting thin films near the critical temperature. Low Temperature Physics, 2006, 32, 205-213.	0.6	4
45	Wide temperature range study of multilayer Fe <sup>2+</sup> •Au <sup>2+</sup> •Tb films. Journal of Applied Physics, 2006, 99, 08C904.	2.5	2
46	Electromagneto-optical effects on local areas of a ferrite-garnet film. Physical Review B, 2005, 71, .	3.2	41
47	Control of Electron-Spin Precession in Quantum Well Through the E Field Influence on the Interface Asymmetry. AIP Conference Proceedings, 2005, , .	0.4	0
48	Magnetoelasticity and domain structure in antiferromagnetic crystals of the iron-group dihalides. Low Temperature Physics, 2005, 31, 794-806.	0.6	12
49	Microwave absorption in a thin La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> film: Manifestation of colossal magnetoresistance. Physical Review B, 2004, 69, .	3.2	29
50	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
51	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
52	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
53	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
54	Nature of magnetic field and angular dependencies of the critical current density in epitaxial HTS YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> films. Physica C: Superconductivity and Its Applications, 2003, 388-389, 431-432.	1.2	6

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55	Features of the angular dependence of the critical current in thin epitaxial films of HTSC YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> in a magnetic field. <i>Low Temperature Physics</i> , 2003, 29, 630-641.	0.6	7
56	Mechanisms of limitation and nature of field dependence of critical current in HTS epitaxial YBaCuO films. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 3714-3717.	1.7	28
57	Effects of photoluminescence polarization in semiconductor quantum wells subjected to an in-plane magnetic field. <i>Physical Review B</i> , 2003, 68, .	3.2	16
58	Co-Manifestation of Interfaces Asymmetry and Magnetic Field Influence on Luminescence Polarization Anisotropy of [100]-Oriented QW with Semimagnetic Barriers. , 2003, , 247-258.		0
59	Magnetic-field and temperature dependence of the critical current in thin epitaxial films of the high-temperature superconductor YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Low Temperature Physics</i> , 2002, 28, 172-183.	0.6	30
60	Magnetic field dependence of the critical current density in thin epitaxial HTS YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> films with dislocation low-angle domain boundaries. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 372-376, 1091-1094.	1.2	14
61	Optical polarization anisotropy of quantum wells induced by a cubic anisotropy of the host material. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 24-35.	2.7	4
62	Temperature dependence of the critical current in high-T <sub>c</sub> superconductors with low-angle boundaries between crystalline blocks. <i>Low Temperature Physics</i> , 2001, 27, 96-102.	0.6	28
63	Exactly solvable model for carrier-induced paramagnetic-ferromagnetic phase transition in diluted magnetic semiconductors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 10, 165-169.	2.7	3
64	Critical currents in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> high-temperature superconducting thin films irradiated by 4-MeV electrons. <i>Low Temperature Physics</i> , 2000, 26, 464-466.	0.6	9
65	Analysis of the temperatureâ€field dependence of the magnetostriction in the antiferromagnetic phase of the easy-plane antiferromagnet CoCl <sub>2</sub> . <i>Low Temperature Physics</i> , 2000, 26, 489-493.	0.6	10
66	On the theory of carrier-induced ferromagnetism in diluted magnetic semiconductors. <i>Low Temperature Physics</i> , 2000, 26, 886-889.	0.6	4
67	Combination of Hartree and Ritz approaches for problem of excitons in semiconductor quantum wells. Additional exciton states. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 8, 275-280.	2.7	7
68	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. <i>Physical Review B</i> , 2000, 61, 16870-16882.	3.2	88
69	Diluted Magnetic Semiconductor Investigations in Ukraine. Nature of Some Additional Lines in QW Optical Spectra. <i>Acta Physica Polonica A</i> , 1998, 94, 165-176.	0.5	1
70	Magneto-optical investigations of diluted Cd <sub>1-<math>x</math></sub> Mn <sub><math>x</math></sub> magnetic semiconductors in the B-exciton region. <i>Physical Review B</i> , 1997, 56, 1868-1875.	3.2	7
71	<title>Magnetorefectance study of interfaces in Cd<math>\langle \inf \rangle \langle \roman \rangle 1-x \langle /roman \rangle \langle /inf \rangle \langle /formula \rangle \text{Mn} \langle \mathit \rangle \langle \roman \rangle x \langle /roman \rangle \langle /inf \rangle \langle /formula \rangle \text{Te} / \text{CdTe} / \text{Cd} \langle \mathit \rangle \langle /formula \rangle \text{ structures} \langle /title \rangle . , 1997, 3182, 408.		
72	Investigation of the structure of the edge of the valence band of Cd <sub>1-<math>x</math></sub> Mn <sub><math>x</math></sub> S crystals on the basis of magneto-optical measurements. <i>Semiconductors</i> , 1997, 31, 58-62.	0.5	0

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73	Carrier-ion exchange interactions in crystals $Cd_{1-x}Co_xTe$ . Solid State Communications, 1997, 101, 397-402.	1.9	14
74	Magnetic-field affected luminescence of $Mn^{2+}$ ions in $Zn_{1-x}Mn_xSe$ compounds under resonance excitation of excitons. Solid State Communications, 1991, 78, 1069-1072.	1.9	16
75	Unusual magnetic behavior of $La_{1-x}Ca_xCoO_3$ . Physica C: Superconductivity and Its Applications, 1991, 185-189, 1097-1098.	1.2	7
76	Low-temperature ferromagnetic resonance in epitaxial garnet films on paramagnetic substrates. Soviet Physics Journal (English Translation of Izvestia Vysshikh Uchebnykh Zavedenii, Fizika), 1989, 32, 276-280.	0.0	11
77	Exchange-Scattering Effects on Band Energies in Magnetically Mixed Semiconductors. Physica Status Solidi (B): Basic Research, 1987, 144, 661-673.	1.5	11
78	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
79	Features of electric field effect in NQR and phase transition in crystals of pyrrargyrite. Journal of Molecular Structure, 1982, 83, 85-88.	3.6	2
80	Features of NQR relaxation in $Bi_{12}SiO_{20}$ . Journal of Molecular Structure, 1982, 83, 105-108.	3.6	1
81	NQR investigation of intercalation of layered halides with organic compounds. Journal of Molecular Structure, 1982, 83, 353-356.	3.6	6
82	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
83	Temperature Dependence of Nuclear Quadrupole Resonance in Layered Crystals. Physica Status Solidi (B): Basic Research, 1976, 76, 183-189.	1.5	12
84	Microwave-optical double resonance and magnetic circular dichroism of photochromic centres in $CaF_2:Ce$ . Physica Status Solidi (B): Basic Research, 1975, 68, 783-790.	1.5	1
85	Nuclear quadrupole resonance spectrometer pick-up for the range 130–320 Mc/s for low temperature measurements. Cryogenics, 1965, 5, 43-45.	1.7	0
86	Effect of Interaction in the Magnetization Reversal Relaxation of Superparamagnetic Granular $CoFeB-SiO_2$ Films. Solid State Phenomena, 0, 152-153, 213-216.	0.3	7
87	Quasistatic Magnetic Properties and Dynamic Hysteretic Losses in $(La,Sr)MnO_3$ Nanoparticles Fabricated by Different Technological Routes. Solid State Phenomena, 0, 230, 101-107.	0.3	0