

Vassil Skumryev

List of Publications by Year in descending order

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128
papers

6,718
citations

126907

33
h-index

62596

80
g-index

134
all docs

134
docs citations

134
times ranked

6998
citing authors

#	ARTICLE	IF	CITATIONS
1	Exchange bias in nanostructures. Physics Reports, 2005, 422, 65-117.	25.6	1,722
2	Beating the superparamagnetic limit with exchange bias. Nature, 2003, 423, 850-853.	27.8	1,468
3	Electric-Field Control of Exchange Bias in Multiferroic Epitaxial Heterostructures. Physical Review Letters, 2006, 97, 227201.	7.8	295
4	Shell-Driven Magnetic Stability in Core-Shell Nanoparticles. Physical Review Letters, 2006, 97, 157203.	7.8	195
5	High- and Low-Temperature Crystal and Magnetic Structures of $\mu\text{-Fe}_2\text{O}_3$ and Their Correlation to Its Magnetic Properties. Chemistry of Materials, 2006, 18, 3889-3897.	6.7	150
6	Iron filled single-wall carbon nanotubes – A novel ferromagnetic medium. Chemical Physics Letters, 2006, 421, 129-133.	2.6	130
7	Magnetic Frustration in an Iron-Based Cairo Pentagonal Lattice. Physical Review Letters, 2009, 103, 267204.	7.8	121
8	Magnetization Reversal by Electric-Field Decoupling of Magnetic and Ferroelectric Domain Walls in Multiferroic-Based Heterostructures. Physical Review Letters, 2011, 106, 057206.	7.8	121
9	Improving the energy product of hard magnetic materials. Physical Review B, 2002, 65, .	3.2	112
10	Magnetic, structural and microstructural properties of FePt/M (M=C,BN) granular films. IEEE Transactions on Magnetics, 2001, 37, 1292-1294.	2.1	111
11	Phonon and magnon scattering of antiferromagnetic Bi^2 . Physical Review B, 2010, 81, .	3.2	107
12	Criteria for saturated magnetization loop. Journal of Magnetism and Magnetic Materials, 2016, 402, 76-82.	2.3	88
13	Field-induced transition in the paramagnetic state of $(\text{Sm}_{0.65}\text{Sr}_{0.35})\text{MnO}_3$ associated with magnetic clusters. Physical Review B, 1999, 60, 12847-12851.	3.2	81
14	Epitaxial stabilization of $\mu\text{-Fe}_2\text{O}_3$ (001) thin films on SrTiO ₃ (111). Applied Physics Letters, 2010, 96, .	3.3	79
15	The magnetization of epitaxial nanometric CoFe ₂ O ₄ (001) layers. Journal of Applied Physics, 2009, 106, .	2.5	72
16	Is gadolinium really ferromagnetic?. Nature, 1999, 401, 35-36.	27.8	64
17	Weak ferromagnetism in. European Physical Journal B, 1999, 11, 401.	1.5	64
18	High Temperature Magnetic Stabilization of Cobalt Nanoparticles by an Antiferromagnetic Proximity Effect. Physical Review Letters, 2015, 115, 057201.	7.8	61

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19	Emergence of ferromagnetism in antiferromagnetic TbMnO ₃ by epitaxial strain. Applied Physics Letters, 2010, 96, .	3.3	53
20	High anisotropy Sm ²⁺ Co nanoparticles: Preparation by cluster gun technique and their magnetic properties. Journal of Applied Physics, 2003, 93, 7592-7594.	2.5	51
21	AC susceptibility of a magnetite crystal. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 515-517.	2.3	49
22	Magnetoelectric effect and phase transitions in CuO in external magnetic fields. Nature Communications, 2016, 7, 10295.	12.8	47
23	Fabrication of ordered FePt nanoparticles with a cluster gun. Journal of Applied Physics, 2003, 93, 7190-7192.	2.5	42
24	ac susceptibility of a spherical Nd ₂ Fe ₁₄ B single crystal. Physical Review B, 1992, 46, 3496-3505.	3.2	41
25	Synthesis, structure, and magnetic studies on self-assembled BiFeO ₃ /CoFe ₂ O ₄ nanocomposite thin films. Journal of Applied Physics, 2008, 103, 07E301.	2.5	41
26	Crystal structure, electric and magnetic properties, and Raman spectroscopy of Gd ₃ RuO ₇ . Physical Review B, 2000, 62, 12235-12240.	3.2	40
27	Ferromagnetism in epitaxial orthorhombic YMnO ₃ thin films. Journal of Magnetism and Magnetic Materials, 2009, 321, 1719-1722.	2.3	38
28	The synthesis of superconducting bismuth compounds via oxalate coprecipitation. Physica C: Superconductivity and Its Applications, 1989, 157, 108-114.	1.2	37
29	Exchange biasing and electric polarization with YMnO ₃ . Applied Physics Letters, 2006, 89, 032510.	3.3	37
30	Domain-wall dynamics in aligned bound Sm ₂ Fe ₁₇ . Physical Review B, 1996, 53, 15014-15022.	3.2	35
31	High magnetic field studies of 3d and 4f magnetism in (R _{0.7} A _{0.3})MnO ₃ : R=La ³⁺ , Pr ³⁺ , Nd ³⁺ , A=Ca ²⁺ , Sr ²⁺ , Ba ²⁺ , Pb ²⁺ . Journal of Applied Physics, 1999, 85, 5384-5386.	2.5	34
32	Incommensurate magnetic structures of multiferroic MnWO ₄ studied within the superspace formalism. Physical Review B, 2013, 87, .	3.2	34
33	Direct Synthesis of Isolated L10 FePt Nanoparticles in a Robust TiO ₂ Matrix via a Combined Sol-Gel/Pyrolysis Route. Advanced Materials, 2006, 18, 466-470.	21.0	33
34	Comment on "Exchange Bias Dependence on Interface Spin Alignment in a Ni ₈₀ Fe ₂₀ Tj ETQ 0 0 r gBT /Overlo		
35	Physical Review Letters, 2008, 100, 039701. Sample size dependence of the AC-susceptibility of sintered YBa ₂ Cu ₃ O _{7-δ} superconductors. Physica C: Superconductivity and Its Applications, 1991, 184, 332-340.	1.2	31
36	Crystal texture selection in epitaxies of orthorhombic antiferromagnetic YMnO ₃ films. Thin Solid Films, 2008, 516, 4899-4907.	1.8	31

#	ARTICLE	IF	CITATIONS
55	Why the iron magnetization in Gd ₂ Fe ₁₄ B and the spontaneous magnetization of Y ₂ Fe ₁₄ B depend on temperature differently. Journal of Applied Physics, 2010, 107, .	2.5	19
56	Monolithic integration of room-temperature multifunctional BaTiO ₃ -CoFe ₂ O ₄ epitaxial heterostructures on Si(001). Scientific Reports, 2016, 6, 31870.	3.3	19
57	$\frac{S_r}{S_0} = \frac{1}{1 + \frac{3}{2} \left(\frac{S_r}{S_0} \right)^2}$ xMnO₃ thin films. Physical Review B, 2014, 90, .	3.2	17
58	Epitaxial growth of biferroic YMnO ₃ (0001) on platinum electrodes. Journal of Crystal Growth, 2007, 299, 288-294.	1.5	16
59	Magnetic response of YbMnO ₃ single crystal. Journal of Applied Physics, 2008, 103, .	2.5	16
60	Ferroelectricity and strain effects in orthorhombic YMnO ₃ thin films. Phase Transitions, 2011, 84, 555-568.	1.3	16
61	CoFe ₂ O ₄ /buffer layer ultrathin heterostructures on Si(001). Journal of Applied Physics, 2011, 110, .	2.5	16
62	Low-field ac susceptibility and microwave absorption in YBaCuO and BiCaSrCuO superconductors. Physica C: Superconductivity and Its Applications, 1988, 156, 73-78.	1.2	15
63	Flat epitaxial ferromagnetic CoFe ₂ O ₄ films on buffered Si(001). Thin Solid Films, 2011, 519, 5726-5729.	1.8	15
64	X phase of MnWO ₄ . Physical Review B, 2014, 90, .	3.2	15
65	Raman spectroscopy of alpha-FeOOH (goethite) near antiferromagnetic to paramagnetic phase transition. Journal of Applied Physics, 2020, 127, .	2.5	15
66	Alternating current susceptibility of a gadolinium crystal. Journal of Applied Physics, 2000, 87, 7028-7030.	2.5	14
67	Influence of substrate temperature in BiFeO ₃ /CoFe ₂ O ₄ nanocomposites deposited on SrTiO ₃ (001). Journal of Magnetism and Magnetic Materials, 2009, 321, 1790-1794.	2.3	14
68	Phase coexistence and magnetically tuneable polarization in cycloidal multiferroics. Physical Review B, 2013, 88, .	3.2	14
69	Ensemble averaged structure-function relationship for nanocrystals: effective superparamagnetic Fe clusters with catalytically active Pt skin. Nanoscale, 2017, 9, 15505-15514.	5.6	14
70	Short-range order in RE ₄ Al ₃ metallic glasses (RE = Pr, Gd, Tb, Dy). Journal of Non-Crystalline Solids, 1989, 110, 184-189.	3.1	12
71	Paramagnetic behavior and correlation between high- and low-temperature structural and magnetic transitions in La _{1-x} Sr _x MnO ₃ single-crystal perovskites. Physical Review B, 2001, 64, .	3.2	12
72	Discrimination between coupling and anisotropy fields in exchange-biased bilayers. Journal of Applied Physics, 2009, 105, 053903.	2.5	12

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73	Functional spinel oxide heterostructures on silicon. CrystEngComm, 2014, 16, 10741-10745.	2.6	12
74	Magnetic properties of bulk amorphous R57T43 alloys (R = Dy, Er; T = Co, Fe). Journal of Magnetism and Magnetic Materials, 1983, 31-34, 1499-1500.	2.3	11
75	Synthesis, Structural Characterization, and Cytotoxic Activity of Novel Paramagnetic Platinum Hematoporphyrin IX Complexes: Potent Antitumor Agents. Metal-Based Drugs, 2007, 2007, 1-13.	3.8	11
76	Synthesis, structure and in vitro cytotoxic studies of novel paramagnetic palladium(III) complexes with hematoporphyrin IX. Journal of Inorganic Biochemistry, 2013, 124, 54-62.	3.5	11

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91	Magnetic behavior of La ₂ CoMnO ₆ crystal doped with Pb and Pt. Materials Research Bulletin, 2012, 47, 4001-4005.	5.2	7
92	Single-crystal neutron diffraction study of hexagonal multiferroic YbMnO_3 under a magnetic field. Physical Review B, 2018, 98, .		
93	Magnetic properties of bulk amorphous alloy Dy ₄ Co ₃ . Journal of Non-Crystalline Solids, 1983, 55, 159-164.	3.1	6
94	Magnetic properties of bulk amorphous Ho ₄ Fe ₃ . IEEE Transactions on Magnetics, 1986, 22, 560-562.	2.1	6
95	Influence of Microstructure on Superconducting Properties of YBa ₂ Cu ₃ O _{7-δ} Studied by Means of AC-Susceptibility. Physica Status Solidi A, 1992, 129, 509-517.	1.7	6
96	Influence of Ga on the Fe anisotropy in. Journal of Physics Condensed Matter, 1998, 10, 4035-4044.	1.8	6
97	Thickness dependence of coercivity in FePt/C multilayers. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1625-1627.	2.3	6
98	Copper(II) complexes with 4-amino- β -(t-butylaminomethyl)-3,5-dichlorobenzyl alcohol hydrochloride (Clenbuterol). Crystal structures of the binuclear and mononuclear Cu(II) complexes with Clenbuterol. Polyhedron, 2005, 24, 1983-1990.	2.2	6
99	Proof of the elusive high-temperature incommensurate phase in CuO by spherical neutron polarimetry. Science Advances, 2020, 6, eaay7661.	10.3	6
100	Magnetic properties of amorphous Gd ₄ Fe ₃ and Y ₄ Fe ₃ alloys. Materials Science and Engineering, 1988, 99, 113-117.	0.1	5
101	Epitaxial ferromagnetic oxide thin films on silicon with atomically sharp interfaces. Applied Physics Letters, 2014, 105, .	3.3	5
102	Comment on "Superspin Glass Mediated Giant Spontaneous Exchange Bias in a Nanocomposite of BiFeO_3 ". Physical Review Letters, 2015, 114, 099703.	7.8	5
103	Alternating current susceptibility study of the low doped regime of La _{1-x} Sr _x MnO ₃ perovskites. Journal of Applied Physics, 2001, 89, 6633-6635.	2.5	4
104	Magnetic field-temperature phase diagrams of multiferroic $\text{Ni}_2\text{V}_2\text{O}_8$. Physical Review B, 2016, 94, .	3.2	4
105	Exchange bias and major coercivity enhancement in strongly-coupled CuO/Co films. Journal of Magnetism and Magnetic Materials, 2018, 449, 5-9.	2.3	4
106	Structural investigations of rapidly quenched Gd ₄ Co ₃ and Gd ₄ Fe ₃ alloys. Journal of Non-Crystalline Solids, 1987, 94, 195-202.	3.1	3
107	New high-T _c 2-2-3 type superconductor Y ₂ Ba _{1.5} Ca _{0.5} Cu ₃ O _{8+δ} . Solid State Communications, 1990, 73, 511-513.	1.9	3
108	Growth and characterization of Pb ₃ Ni _{1.5} Mn _{5.5} O ₁₅ single crystal. Journal of Physics Condensed Matter, 2011, 23, 156001.	1.8	3

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109	Investigating the Mechanisms Governing the Exchange Coupling and Coercivity Modifications in Annealed or Ion-Irradiated MnFe_2O_4 Nanoparticles. <i>Journal of Applied Physics</i> , 2018, 124, 044301.	3.8	3
110	Alternating current susceptibility study of $\text{Dy}_2\text{Fe}_{17-x}\text{Gax}$ compounds. <i>Journal of Applied Physics</i> , 1998, 83, 7145-7147.	2.5	2
111	High field magnetization study and analysis of magnetic interactions in $\text{Dy}_2\text{Fe}_{17-x}\text{Gax}$ ($x=5\text{--}8$) compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 231, 157-161.	2.3	2
112	Neutron diffraction study of the $(\text{BiFeO}_3)_{1-x}(\text{PbTiO}_3)_x$ solid solution: nanostructured multiferroic system. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 046004.	1.8	2
113	Infrared phonon spectroscopy on the Cairo pentagonal antiferromagnet Bi_2O_9 : A study through the pressure-induced structural transition. <i>Physical Review B</i> , 2021, 103, 104411.	3.2	2
114	Correlation between the structure and the magnetic properties of Gd_4Me_3 metallic glasses (Me = Al, Tj). <i>Journal of Non-Crystalline Solids</i> , 1991, 133, 252-255.	5.6	1
115	Anisotropy constants and crystal-field parameters of $\text{Sm}_2\text{Fe}_{17-x}\text{Gax}$. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 7339-7345.	1.8	1
116	Application of Energy-Filtered Imaging and HREM in the Study of Terbium Nanoparticles. <i>Microscopy and Microanalysis</i> , 2002, 8, 1360-1361.	0.4	1
117	Copper(II) complexes of the antihypertensive drug nadolol. <i>Open Chemistry</i> , 2007, 5, 118-131.	1.9	1
118	AMORPHOUS $\text{Gd}_{57}\text{Al}_{43}$ - A NEW "FERROGLASS" ALLOY. <i>Journal De Physique Colloque</i> , 1988, 49, C8-1363-C8-1364.	0.2	1
119	$\text{Tl}_{0.75}\text{Pb}_{0.20}\text{Sb}_{0.05}\text{Ca}_{2}\text{Ba}_{3}\text{Cu}_{4}\text{O}_y$ high T_c superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 162-164, 995-996.	1.2	0
120	Magnetic properties of $\text{YBa}_{1.5}\text{Ca}_{0.5}\text{Cu}_3\text{O}_{7-x}$ superconductor. <i>Solid State Communications</i> , 1989, 72, 1203-1205.	1.9	0
121	Energy gaps of Bi-Sr-Ca-Cu-O monocrystal determined by AC-susceptibility. <i>IEEE Transactions on Magnetics</i> , 1993, 29, 3598-3600.	2.1	0
122	Synthesis and Magnetic Properties of $(\text{Ln}, \text{Ln}^{\text{II}})_3(\text{Fe}, \text{Ti})_{29}$ (Ln: Pr, Nd and Ln^{II} : Sm, Er) Intermetallic Compounds.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
123	Effect of post deposition annealing on the hysteresis loops of sputtered NdFeB film. , 0, , .		0
124	Thickness Effect on the Formation of FePt Nanoparticles in FePt/C Multilayers. <i>Microscopy and Microanalysis</i> , 2003, 9, 514-515.	0.4	0
125	Comparative study of the field-induced and spontaneous AF_2^{I} multiferroic phases in MnWO_4 and $\text{Mn}_{0.90}\text{Co}_{0.10}\text{WO}_4$ within the magnetic symmetry framework. <i>Journal of Applied Crystallography</i> , 2016, 49, 520-527.	4.5	0
126	Magnetic Properties of Amorphous Gd_4Fe_3 and Y_4Fe_3 Alloys. , 1988, , 113-117.		0

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127	Correlation between the structure and the magnetic properties of Gd ₄ Me ₃ metallic glasses (Me = Al,) Tj ETQq1 1 0.784314 rgBT /Over		
128	MAGNETIC PROPERTIES OF Y ₁ Ba ₂ Cu ₃ O _x SUPERCONDUCTOR OBTAINED BY RAPID QUENCHING FROM THE MELT. Journal De Physique Colloque, 1988, 49, C8-2183-C8-2184.	0.2	0