

Vassil Skumryev

List of Publications by Year in descending order

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128
papers

6,718
citations

126708

33
h-index

62479

80
g-index

134
all docs

134
docs citations

134
times ranked

6998
citing authors

#	ARTICLE	IF	CITATIONS
19	Emergence of ferromagnetism in antiferromagnetic TbMnO ₃ by epitaxial strain. Applied Physics Letters, 2010, 96, .	1.5	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.	1.1	51
21	AC susceptibility of a magnetite crystal. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 515-517.	1.0	49
22	Magnetoelectric effect and phase transitions in CuO in external magnetic fields. Nature Communications, 2016, 7, 10295.	5.8	47
23	Fabrication of ordered FePt nanoparticles with a cluster gun. Journal of Applied Physics, 2003, 93, 7190-7192.	1.1	42
24	ac susceptibility of a spherical Nd ₂ Fe ₁₄ B single crystal. Physical Review B, 1992, 46, 3496-3505.	1.1	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.	1.1	41
26	Crystal structure, electric and magnetic properties, and Raman spectroscopy of Gd ₃ RuO ₇ . Physical Review B, 2000, 62, 12235-12240.	1.1	40
27	Ferromagnetism in epitaxial orthorhombic YMnO ₃ thin films. Journal of Magnetism and Magnetic Materials, 2009, 321, 1719-1722.	1.0	38
28	The synthesis of superconducting bismuth compounds via oxalate coprecipitation. Physica C: Superconductivity and Its Applications, 1989, 157, 108-114.	0.6	37
29	Exchange biasing and electric polarization with YMnO ₃ . Applied Physics Letters, 2006, 89, 032510.	1.5	37
30	Domain-wall dynamics in aligned bound Sm ₂ Fe ₁₇ . Physical Review B, 1996, 53, 15014-15022.	1.1	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.	1.1	34
32	Incommensurate magnetic structures of multiferroic MnWO ₄ studied within the superspace formalism. Physical Review B, 2013, 87, .	1.1	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. Comment on "Exchange Bias Dependence on Interface Spin Alignment in a Ni ₂ Fe ₂ O ₄ /Overl	11.1	33
34	Physical Review Letters, 2008, 100, 039701.		
35	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.	0.6	31
36	Crystal texture selection in epitaxies of orthorhombic antiferromagnetic YMnO ₃ films. Thin Solid Films, 2008, 516, 4899-4907.	0.8	31

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37	Exchange coupling mechanism for magnetization reversal and thermal stability of Co nanoparticles embedded in a CoO matrix. Journal of Magnetism and Magnetic Materials, 2005, 294, 111-116.	1.0	27
38	Polar domain walls trigger magnetoelectric coupling. Scientific Reports, 2015, 5, 13784.	1.6	27
39	Physical properties of BiCaSrCuOx superconductor obtained by rapid quenching from the melt. Physica C: Superconductivity and Its Applications, 1988, 152, 315-320.	0.6	26
40	Strain tuned magnetoelectric coupling in orthorhombic YMnO3 thin films. Applied Physics Letters, 2009, 95, .	1.5	26
41	Dielectric anomaly and magnetic response of epitaxial orthorhombic YMnO ₃ thin films. Journal of Materials Research, 2007, 22, 2096-2101.	1.2	25
42	Strain-driven noncollinear magnetic ordering in orthorhombic epitaxial YMnO3 thin films. Journal of Applied Physics, 2010, 108, .	1.1	25
43	Dipolar Driven Spontaneous Self Assembly of Superparamagnetic Co Nanoparticles into Micrometric Rice-Grain like Structures. Langmuir, 2010, 26, 109-116.	1.6	25
44	Domain matching epitaxy of ferrimagnetic CoFe2O4 thin films on Sc2O3/Si(111). Applied Physics Letters, 2011, 99, .	1.5	25
45	Microstructural characterization of L10 FePt/MgO nanoparticles with perpendicular anisotropy. Applied Physics Letters, 2004, 85, 5343-5345.	1.5	23
46	Sputtering growth and characterization of CoFe2O4/BaTiO3 nanostructures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 144, 127-131.	1.7	23
47	Anisotropic paramagnetic response of hexagonal MnO Physical Review B, 2009, 79, .	1.1	22
48	Calibration of low-temperature ac susceptometers with a copper cylinder standard. Review of Scientific Instruments, 2010, 81, 025104.	0.6	22
49	Magnetic properties of gadolinium and terbium nanoparticles produced via multilayer precursors. Physical Review B, 2003, 67, .	1.1	21
50	Calibration of ac and dc magnetometers with a Dy2O3 standard. Review of Scientific Instruments, 2011, 82, 045112.	0.6	21
51	Anomalous anisotropic ac susceptibility response of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ crystals: Relevance to phase separation. Physical Review B, 2000, 62, 3879-3882.	1.1	20
52	Conical antiferromagnetic order in the ferroelectric phase of MnCo_2WO_8 Physical Review B, 2011, 84, 040407.	1.1	20
53	Magnetic properties of bulk amorphous alloys Gd_4Co_3 , Er_4Co_3 , and Sm_4Co_3 . Physica Status Solidi A, 1983, 75, 401-404.	1.1	20
54	Magnetic properties of bulk amorphous alloys Gd_4Co_3 , Er_4Co_3 , and Sm_4Co_3 . Physica Status Solidi A, 1983, 75, 401-404.	1.7	19

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73	Functional spinel oxide heterostructures on silicon. CrystEngComm, 2014, 16, 10741-10745.	1.3	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.	1.0	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.	1.5	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.	2.7	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.	1.5	6
94	Magnetic properties of bulk amorphous Ho ₄ Fe ₃ . IEEE Transactions on Magnetics, 1986, 22, 560-562.	1.2	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.	0.7	6
97	Thickness dependence of coercivity in FePt/C multilayers. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1625-1627.	1.0	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.	1.0	6
99	Proof of the elusive high-temperature incommensurate phase in CuO by spherical neutron polarimetry. Science Advances, 2020, 6, eaay7661.	4.7	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, .	1.5	5
102	Comment on "Superspin Glass Mediated Giant Spontaneous Exchange Bias in a Nanocomposite of $\text{BiFeO}_3/\text{CoFe}_2\text{O}_4$ ". Physical Review Letters, 2015, 114, 099703.	2.9	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.	1.1	4
104	Magnetic field-temperature phase diagrams of multiferroic $\text{Ni}_2\text{V}_2\text{O}_8$. Physical Review B, 2016, 94, .	1.1	4
105	Exchange bias and major coercivity enhancement in strongly-coupled CuO/Co films. Journal of Magnetism and Magnetic Materials, 2018, 449, 5-9.	1.0	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.	1.5	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.	0.9	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.	0.7	3

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109	Investigating the Mechanisms Governing the Exchange Coupling and Coercivity Modifications in Annealed or Ion-Irradiated $\text{Mn}_{1-x}\text{Fe}_x$ Compounds. <i>Journal of Applied Physics</i> , 1998, 83, 7145-7147.	1.5	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.	1.1	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.	1.0	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.	0.7	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, .	1.1	2
114	Correlation between the structure and the magnetic properties of Gd_4Me_3 metallic glasses (Me = Al, Tj). <i>ETQq000rgBT/Overlock 10 TF Processing</i> , 1991, 133, 252-255.	2.6	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.	0.7	1
116	Application of Energy-Filtered Imaging and HREM in the Study of Terbium Nanoparticles. <i>Microscopy and Microanalysis</i> , 2002, 8, 1360-1361.	0.2	1
117	Copper(II) complexes of the antihypertensive drug nadolol. <i>Open Chemistry</i> , 2007, 5, 118-131.	1.0	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.	0.6	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.	0.9	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.	1.2	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.	0.1	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.	0.2	0
125	Comparative study of the field-induced and spontaneous $\text{AF}^2\text{--}2$ 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.	1.9	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