

Viorel Sandu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Towards high degree of c-axis orientation in MgB ₂ bulks. Journal of Magnesium and Alloys, 2022, 10, 2173-2184.	11.9	2
2	Partially-oriented MgB ₂ superconducting bulks with addition of B ₄ C and cubic BN obtained by slip casting under high magnetic field and spark plasma sintering. Materials Research Bulletin, 2021, 134, 111103.	5.2	2
3	On the pinning force in high density MgB ₂ samples. Scientific Reports, 2021, 11, 5951.	3.3	8
4	New superconductor/ferromagnet heterostructure formed by YBa ₂ Cu ₃ O _{7-x} and CaRuO ₃ . Superconductor Science and Technology, 2021, 34, 115009.	3.5	1
5	Effect of proton fluence on the superconducting properties of MgB ₂ irradiated with protons of high energy. Physica C: Superconductivity and Its Applications, 2020, 578, 1353734.	1.2	2
6	Nonisocyanate Poly(Hydroxyl Urethane)-Based Green Polymer Hybrid Coating Systems: Tailoring of Biomacromolecular Compound Architecture Using APTMS-ZnO/TEMPO-Oxidized Cellulose Nanoparticles. ACS Omega, 2020, 5, 10315-10326.	3.5	6
7	Superconducting MgB ₂ textured bulk obtained by <i>ex situ</i> spark plasma sintering from green compacts processed by slip casting under a 12 T magnetic field. Superconductor Science and Technology, 2019, 32, 125001.	3.5	10
8	Irreversibility in Rolled Tantalum. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2047-2054.	1.8	3
9	Vortex dynamics driven by AC magnetic field in YBCO thin films with complex pinning structures. Superconductor Science and Technology, 2018, 31, 105012.	3.5	3
10	Effect of Cr ₂ O ₃ on the magnetic properties of magnetite-based glass-ceramics obtained by controlled crystallization of Fe-containing aluminoborosilicate glass. Journal of the European Ceramic Society, 2017, 37, 3089-3099.	5.7	22
11	Magnetite-based glass-ceramics prepared by controlled crystallization of borosilicate glasses: Effect of nucleating agents on magnetic properties and relaxation. Ceramics International, 2017, 43, 3405-3413.	4.8	9
12	Magnetic properties of glass-ceramics obtained by crystallization of iron-rich borosilicate glasses. Journal of Advanced Ceramics, 2017, 6, 251-261.	17.4	19
13	Tellurium addition as a solution to improve compactness of <i>ex-situ</i> processed MgB ₂ -SiC superconducting tapes. Superconductor Science and Technology, 2016, 29, 065012.	3.5	8
14	Spark plasma sintered MgB ₂ co-added with c-BN and C ₆₀ . Materials Chemistry and Physics, 2016, 170, 201-209.	4.0	10
15	Effect of P ₂ O ₅ on the Structural and Magnetic Properties of Magnetite-Based Glass-Ceramics. Journal of the American Ceramic Society, 2016, 99, 4013-4021.	3.8	4
16	Superconductivity in MgB ₂ irradiated with energetic protons. Physica C: Superconductivity and Its Applications, 2016, 528, 27-34.	1.2	5
17	Physical Properties of Polycrystalline CuGeO ₃ Prepared by Field-assisted Sintering Technique. Journal of Superconductivity and Novel Magnetism, 2016, 29, 775-780.	1.8	1
18	Possible Enhancement of Spin Fluctuations by Ag addition to SmFeAsO _{1-x} F _x . Journal of Superconductivity and Novel Magnetism, 2016, 29, 303-308.	1.8	0

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19	Exotic Superconductivity in Correlated Electron Systems. <i>Advances in Condensed Matter Physics</i> , 2015, 2015, 1-2.	1.1	0
20	Insertion versus Growth of Magnetic Nanoparticles in MgB ₂ Superconducting Composites. <i>Advanced Materials Research</i> , 2014, 941-944, 458-461.	0.3	0
21	Effect of Silver Addition to Superconducting SmFeAsO _{1-x} F _x . <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 1635-1641.	1.8	3
22	Magnetic nanoparticles in MgB ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2014, 498, 30-37.	1.2	5
23	Experimental study on phase formation of SiC doped MgB ₂ : processing of Mg@SiC powders by spark plasma sintering. <i>Materials Research Innovations</i> , 2014, 18, 407-411.	2.3	6
24	Doping of MgB ₂ Using Molecular Magnets as Precursors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 1837-1843.	1.8	2
25	Enhancement of Superconductivity in Quenched \pm -FeSe Flakes. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 3349-3353.	1.8	3
26	On the Scaling Law of the Pinning Force in MgB ₂ Superconducting Composites with Magnetic Nano-inclusions. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 125-131.	1.8	6
27	One-Step Synthesis and Sintering of MgB ₂ by Spark Plasma Sintering. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 361-369.	1.8	4
28	Effect of tritiation on the superconducting properties of MgB ₂ . <i>Superconductor Science and Technology</i> , 2013, 26, 045014.	3.5	5
29	Fabrication of Superconducting MgB ₂ -Based Nanocomposites with Magnetic Inclusions by Spark Plasma Sintering. <i>Advanced Materials Research</i> , 2012, 569, 3-6.	0.3	0
30	Structure and Magnetic Properties of Nanosized Magnetite Obtained by Glass Recrystallization. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 5043-5050.	0.9	10
31	CoNb ₂ O ₆ Ceramic with Geometric Frustration. <i>Advanced Materials Research</i> , 2012, 468-471, 542-545.	0.3	0
32	Effect of Nucleators and Intermediates on the Magnetic Properties of Nanosized Magnetite Obtained by Glass Crystallization. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012, 9, 1541-1545.	0.4	0
33	On the scaling of pinning force in ceramic MgB ₂ . <i>Journal of Physics: Conference Series</i> , 2012, 400, 022102.	0.4	0
34	Magnetic glass-ceramics. <i>Journal of Advanced Ceramics</i> , 2012, 1, 138-143.	17.4	15
35	Use of preceramic polymers for magnesium diboride composites. <i>Physica C: Superconductivity and Its Applications</i> , 2012, 480, 102-107.	1.2	7
36	Angular magnetoresistance of stretched carbon nanotube sheets. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	12

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37	PINNING-FORCE SCALING AND ITS LIMITATION IN INTERMEDIATE AND HIGH TEMPERATURE SUPERCONDUCTORS. Modern Physics Letters B, 2012, 26, 1230007.	1.9	28
38	A Simple Fabrication of FeSe Superconductors with High Upper Critical Field. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1781-1785.	1.8	8
39	Effect of Tritium Loading on the Superconducting Properties of Niobium and Tantalum. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1799-1804.	1.8	1
40	Fabrication and Superconducting Properties of MgB_2 Doped With Polysiloxane Based Copolymers. IEEE Transactions on Applied Superconductivity, 2011, 21, 2631-2634.	1.7	4
41	Transport properties of superconducting MgB_2 composites with carbon-encapsulated Fe nanospheres. Journal of Applied Physics, 2011, 110, .	2.5	18
42	On the scaling law of some characteristic fields in $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$. Physica C: Superconductivity and Its Applications, 2011, 471, 133-136.	1.2	0
43	Magnetism and transport properties of gamma-irradiated polymer- CrO_2 composites. Journal of Magnetism and Magnetic Materials, 2010, 322, 1405-1408.	2.3	0
44	Fabrication and Electric Transport in MgB_2 Doped with Nanosized Carbon-Based Core-Shell Structures. Materials Science Forum, 2010, 663-665, 871-875.	0.3	0
45	Fabrication and Transport Properties of Manganite-Polyacrylamide-Based Composites. Journal of Nanomaterials, 2009, 2009, 1-5.	2.7	3
46	Physical Properties of Manganite-Polysiloxanes Composites Obtained by Co-Precipitation. , 2009, , .		0
47	Nanostructured Ferrite Formation in Borosilicate Glass. Advanced Materials Research, 2009, 79-82, 445-448.	0.3	0
48	Nonmonotonic flux flow in inhomogeneous superconductors above the percolation threshold. Physica C: Superconductivity and Its Applications, 2009, 469, 126-128.	1.2	0
49	Polymer functionalization with manganites. , 2009, , .		0
50	Current dependent angular magnetoresistance in strongly Pr-doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystal. Journal of Physics: Conference Series, 2009, 150, 052222.	0.4	0
51	Effect of Li-halides on the morphology of cuprates ceramics and their properties under neutron irradiation. Journal of Physics: Conference Series, 2009, 152, 012056.	0.4	0
52	Magnetic properties of MgB_2 -Fe sandwiches produced by Field-Assisted-Sintering technique. Journal of Physics: Conference Series, 2009, 150, 052006.	0.4	2
53	Vortex imaging with varying temperature revealed by SHPM on $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$. Physica C: Superconductivity and Its Applications, 2008, 468, 832-836.	1.2	1
54	Synthesis and characterization of star and brush grafted polysiloxanes, obtained by atom transfer radical polymerization. E-Polymers, 2008, 8, .	3.0	3

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55	Transport and Magnetic Properties of CrO ₂ -Polymer Magnetic Composites. Advanced Materials Research, 2008, 47-50, 326-330.	0.3	0
56	Doping dependence of vortex regimes in Y _{1-x} Pr _x Ba ₂ Cu ₃ O _{7-δ} single crystals. Physical Review B, 2008, 77, .	3.2	2
57	Doped MgB ₂ prepared by field assisted sintering technique. Journal of Physics: Conference Series, 2008, 97, 012079.	0.4	0
58	Flux creep activation energy for pure and SiC doped MgB ₂ by ac-susceptibility measurements. Journal of Physics: Conference Series, 2008, 97, 012166.	0.4	2
59	SMART SOLUBLE GRAFTED POLYSILOXANES WITH POTENTIAL APPLICATIONS IN WATERBORNE PAINTS. Environmental Engineering and Management Journal, 2008, 7, 337-342.	0.6	1
60	Irreversible Magnetization above Critical Temperature in Superconducting Y _{0.47} Pr _{0.53} Ba ₂ Cu ₃ O _{7-δ} . AIP Conference Proceedings, 2007, , .	0.4	0
61	Development of Space Instabilities of Defect Distribution at High Fluences in Neutron Irradiated YBa ₂ Cu ₃ O _{7-δ} Ceramics. AIP Conference Proceedings, 2007, , .	0.4	0
62	Preparation of pure and doped MgB ₂ by the field-assisted sintering technique and superconducting properties. Superconductor Science and Technology, 2007, 20, 836-842.	3.5	22
63	Reentrant Irreversibility and Magnetic Transition in Strongly Underdoped Y _{0.47} Pr _{0.53} Ba ₂ Cu ₃ O _{7-δ} Single Crystals. AIP Conference Proceedings, 2006, , .	0.4	0
64	Scaling of Conductivity through the Critical Temperature in Y _{0.54} Pr _{0.46} Ba ₂ Cu ₃ O ₇ . AIP Conference Proceedings, 2006, , .	0.4	0
65	Signature of the magnetic transitions in Y _{0.2} Pr _{0.8} Ba ₂ Cu ₃ O _{7-δ} in high field angular magnetoresistivity. Journal of Physics: Conference Series, 2006, 51, 231-234.	0.4	9
66	High temperature mixed state c-axis dissipation in low carrier density Y _{0.54} Pr _{0.46} Ba ₂ Cu ₃ O _{7-δ} . Physical Review B, 2006, 73, .	3.2	2
67	Magnetic response of Y _{0.47} Pr _{0.53} Ba ₂ Cu ₃ O _{7-δ} : Superconductivity, glassiness, and paramagnetism. Physical Review B, 2006, 74, .	3.2	3
68	Fish-Tail Effect and Irreversibility Field of (Cu, C)Ba ₂ Ca ₃ Cu ₄ O _x -(LiF) _y Superconductor. Journal of Superconductivity and Novel Magnetism, 2005, 18, 489-497.	0.5	0
69	The Influence of Neutron Irradiation on (B _{0.65} C _{0.35})Ba _{1.4} Sr _{0.6} Ca ₂ Cu ₃ O _z Superconducting Phase: The Role of the Grain Edge. Journal of Superconductivity and Novel Magnetism, 2005, 18, 461-467.	0.5	1
70	Evidence for Irradiation Triggered Nonuniform Defects Distribution in Multiharmonic Magnetic Susceptibility of Neutron Irradiated YBa ₂ Cu ₃ O _{7-δ} . Journal of Superconductivity and Novel Magnetism, 2005, 18, 573-581.	0.5	2
71	Vortex dissipation in Y _{1-x} Pr _x Ba ₂ Cu ₃ O _{7-δ} superconductors above and below the zero-field critical temperature. Physical Review B, 2005, 72, .	3.2	10
72	The influence of neutron irradiation on (B _{0.65} C _{0.35})Ba _{1.4} Sr _{0.6} Ca ₂ Cu ₃ O _z superconducting phase: The role of the grain edge. Journal of Superconductivity and Novel Magnetism, 2005, 18, 461-467.	0.5	1

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73	Evidence for irradiation triggered nonuniform defects distribution in multiharmonic magnetic susceptibility of neutron irradiated YBa ₂ Cu ₃ O _{7-x} . Journal of Superconductivity and Novel Magnetism, 2005, 18, 573-581.	0.5	0
74	Evidence for Vortices in the Pseudogap Region of YPrxBa ₂ Cu ₃ O ₇ from Angular Magnetoresistivity Measurements. Physical Review Letters, 2004, 93, 177005.	7.8	29
75	Charge Transport in Spin-Textured YBa ₂ Cu ₃ O _{6.25} . Journal of Superconductivity and Novel Magnetism, 2004, 17, 455-458.	0.5	2
76	Paramagnetism and Superconductivity in Eu _{0.7} Sm _{0.3} Ba ₂ Cu ₃ O ₇ ?. Journal of Superconductivity and Novel Magnetism, 2004, 17, 701-710.	0.5	4
77	Third harmonic ac susceptibility measurements in MgB ₂ bulk: frequency behavior of IL and 3D glass pinning analysis. Physica C: Superconductivity and Its Applications, 2004, 408-410, 120-122.	1.2	3
78	Magnetotransport properties of YPrxBa ₂ Cu ₃ O _{7-x} single crystals. Physica C: Superconductivity and Its Applications, 2004, 408-410, 713-715.	1.2	6
79	Effect of spin ordering on the magnetotransport of YBa ₂ Cu ₃ O _{6.25} . Physical Review B, 2002, 65, .	3.2	10
80	INTERPLAY BETWEEN SPIN AND CRYSTAL LATTICES IN ANTIFERROMAGNETIC YBa ₂ Cu ₃ O _{6.25} . International Journal of Modern Physics B, 2002, 16, 3208-3211.	2.0	0
81	INTERPLAY BETWEEN SPIN AND CRYSTAL LATTICES IN ANTIFERROMAGNETIC YBa ₂ Cu ₃ O _{6.25} . , .		0
82	Rapid Synthesis of Polycrystalline CuGa _{1-x} In _x Te ₂ Compounds. Crystal Research and Technology, 2000, 35, 265-270.	1.3	4
83	Optical and structural differences between RF and DC Al _x Ny magnetron sputtered films. Thin Solid Films, 2000, 359, 17-20.	1.8	19
84	Fish-Tail Effect and Its Evolution Under Neutron Irradiation in Li-Doped YBa ₂ Cu ₃ O _{7-x} . Journal of Superconductivity and Novel Magnetism, 2000, 13, 519-528.	0.5	1
85	Multilayer structures deposited by laser ablation. Sensors and Actuators A: Physical, 1999, 74, 27-30.	4.1	0
86	Pulsed laser deposition of multilayer TiN/Pb(ZrxTi1-x)O ₃ for piezoelectric microdevices. Sensors and Actuators A: Physical, 1999, 74, 41-44.	4.1	9
87	An XPS and XRD study of physical and chemical homogeneity of Pb(Zr,Ti)O ₃ thin films obtained by pulsed laser deposition. Applied Surface Science, 1999, 138-139, 552-556.	6.1	30
88	Influence of the substrate temperature on BCN films deposited by sequential pulsed laser deposition. Applied Physics A: Materials Science and Processing, 1999, 69, S667-S670.	2.3	13
89	Microwave Spectroscopy in YBCO Superconductors: Influence of Neutron Irradiation on the 123 Phase. Journal of Superconductivity and Novel Magnetism, 1998, 11, 327-330.	0.5	8
90	Title is missing!. Journal of Superconductivity and Novel Magnetism, 1998, 11, 245-251.	0.5	5

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91	The Influence of Lithium Halides on the Superconducting Properties of $YB_2Cu_3O_{7-x}$. Journal of Superconductivity and Novel Magnetism, 1998, 11, 653-661.	0.5	2
92	The role of radiation damage structure and fine scale precipitation in the pinning improvement of thermal neutron irradiated lithium fluoride-doped $YBa_2Cu_3O_{7-x}$. Physica C: Superconductivity and Its Applications, 1998, 303, 209-219.	1.2	9
93	GaN thin films deposition by laser ablation of liquid Ga target in nitrogen reactive atmosphere. Applied Surface Science, 1998, 127-129, 559-563.	6.1	39
94	Boron carbonitride films deposited by pulsed laser ablation. Applied Surface Science, 1998, 133, 239-242.	6.1	80
95	III-V compounds and piezoelectric ceramic thin films deposited by reactive PLD: application to sensor building. , 1998, , .		0
96	Laser treatment of a-SiC:H thin films for optoelectronic applications. , 1998, , .		0
97	Capacity coupled r.f. discharge plasma jet treatment of a-SiC:H structures. Thin Solid Films, 1997, 296, 23-27.	1.8	5
98	Oriented $PbZr_{1-x}Ti_xO_3$ thin films obtained at low substrate temperature by pulsed laser deposition. Thin Solid Films, 1997, 311, 171-176.	1.8	21
99	The effect of LiOH addition to the superconducting properties of $YBa_2Cu_3O_{7-x}$. Journal of Superconductivity and Novel Magnetism, 1997, 10, 231-239.	0.5	0
100	A parametric study of AlN thin films grown by pulsed laser deposition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1997, 50, 223-227.	3.5	16
101	AlN thin films deposition by laser ablation of Al target in nitrogen reactive atmosphere. Applied Surface Science, 1997, 109-110, 371-375.	6.1	25
102	The electrical resistance versus temperature dependence of single amorphous CrNi (40:60) thin films r.f.-sputtered in high argon pressure. Journal of Materials Science Letters, 1996, 15, 77-79.	0.5	2
103	Fluctuation conductivity in Li-doped $YBa_2Cu_3O_{7-x}$. Journal of Superconductivity and Novel Magnetism, 1996, 9, 487-492.	0.5	1
104	Neutron irradiation of Li-doped $YBa_2Cu_3O_{7-x}$. Journal of Superconductivity and Novel Magnetism, 1995, 8, 337-340.	0.5	2
105	$LaAlO_3$ thin films deposited on silicon and sapphire as buffer layers for $YBa_2Cu_3O_{7-x}$. Journal of Materials Science Letters, 1994, 13, 1222-1225.	0.5	18
106	Effects of pressure, time, and various additives on the crystallization of graphite and $(Fe_{1-x}Ni_x)_3C$ carbide in the $Fe-Ni-C$ system. Materials Characterization, 1993, 30, 107-112.	4.4	3
107	Some aspects of diamond synthesis. Diamond and Related Materials, 1993, 2, 500-504.	3.9	3
108	Metastable diamond formation from solutions at atmospheric pressure. Diamond and Related Materials, 1993, 2, 505-507.	3.9	4

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109	Characterization of diamond films with Fe inclusions. <i>Diamond and Related Materials</i> , 1992, 1, 489-491.	3.9	1
110	Structure of Nisic microinclusions in synthetic diamond crystals. <i>Materials Research Bulletin</i> , 1992, 27, 53-57.	5.2	1
111	On the limiting factors of the critical current density in high-T _c superconducting ceramics. <i>Journal of Superconductivity and Novel Magnetism</i> , 1990, 3, 391-394.	0.5	14
112	TEA-CO ₂ laser-deposited YBa ₂ Cu ₃ O ₇ superconducting thin films. <i>Journal of Materials Science Letters</i> , 1989, 8, 509-510.	0.5	2