Viorel Sandu

List of Publications by Year
in descending order

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112	707	567281	677142
papers	citations	15	22
		h-index	g-index

112	112	112	693
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Boron carbonitride films deposited by pulsed laser ablation. Applied Surface Science, 1998, 133, 239-242.	6.1	80
2	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
3	An XPS and XRD study of physical and chemical homogeneity of Pb(Zr,Ti)O3 thin films obtained by pulsed laser deposition. Applied Surface Science, 1999, 138-139, 552-556.	6.1	30
4	Evidence for Vortices in the Pseudogap Region ofY1â^'xPrxBa2Cu3O7from Angular Magnetoresistivity Measurements. Physical Review Letters, 2004, 93, 177005.	7.8	29
5	PINNING-FORCE SCALING AND ITS LIMITATION IN INTERMEDIATE AND HIGH TEMPERATURE SUPERCONDUCTORS. Modern Physics Letters B, 2012, 26, 1230007.	1.9	28
6	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
7	Preparation of pure and doped MgB₂by the field-assisted sintering technique and superconducting properties. Superconductor Science and Technology, 2007, 20, 836-842.	3.5	22
8	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
9	Oriented PbZrxTi1â^'xO3 thin films obtained at low substrate temperature by pulsed laser deposition. Thin Solid Films, 1997, 311, 171-176.	1.8	21
10	Optical and structural differences between RF and DC AlxNy magnetron sputtered films. Thin Solid Films, 2000, 359, 17-20.	1.8	19
11	Magnetic properties of glass-ceramics obtained by crystallization of iron-rich borosilicate glasses. Journal of Advanced Ceramics, 2017, 6, 251-261.	17.4	19
12	LaAlO3 thin films deposited on silicon and sapphire as buffer layers for YBa2Cu3O7?x. Journal of Materials Science Letters, 1994, 13, 1222-1225.	0.5	18
13	Transport properties of superconducting MgB2 composites with carbon-encapsulated Fe nanospheres. Journal of Applied Physics, 2011, 110, .	2.5	18
14	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
15	Magnetic glass-ceramics. Journal of Advanced Ceramics, 2012, 1, 138-143.	17.4	15
16	On the limiting factors of the critical current density in high-T c superconducting ceramics. Journal of Superconductivity and Novel Magnetism, 1990, 3, 391-394.	0.5	14
17	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
18	Angular magnetoresistance of stretched carbon nanotube sheets. Journal of Applied Physics, 2012, 111, .	2.5	12

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19	Effect of spin ordering on the magnetotransport ofYBa2Cu3O6.25. Physical Review B, 2002, 65, .	3.2	10
20	Vortex dissipation inY1â^'xPrxBa2Cu3O7â^'Î´superconductors above and below the zero-field critical temperature. Physical Review B, 2005, 72, .	3.2	10
21	Structure and Magnetic Properties of Nanosized Magnetite Obtained by Glass Recrystallization. Journal of Nanoscience and Nanotechnology, 2012, 12, 5043-5050.	0.9	10
22	Spark plasma sintered MgB 2 co-added with c-BN and C 60. Materials Chemistry and Physics, 2016, 170, 201-209.	4.0	10
23	Superconducting MgB₂ textured bulk obtained by ex situ 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
24	The role of radiation damage structure and fine scale precipitation in the pinning improvement of thermal neutron irradiated lithium fluoride-doped YBa2Cu3O7â^'. Physica C: Superconductivity and Its Applications, 1998, 303, 209-219.	1.2	9
25	Pulsed laser deposition of multilayer TiN/Pb(ZrxTi1â^'x)O3 for piezoelectric microdevices. Sensors and Actuators A: Physical, 1999, 74, 41-44.	4.1	9
26	Signature of the magnetic transitions in Y0.2Pr0.8Ba2Cu3O7â^'Î´ in high field angular magnetoresistivity. Journal of Physics: Conference Series, 2006, 51, 231-234.	0.4	9
27	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
28	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
29	A Simple Fabrication of FeSe Superconductors with High Upper Critical Field. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1781-1785.	1.8	8
30	Tellurium addition as a solution to improve compactness ofex-situprocessed MgB₂-SiC superconducting tapes. Superconductor Science and Technology, 2016, 29, 065012.	3.5	8
31	On the pinning force in high density MgB2 samples. Scientific Reports, 2021, 11, 5951.	3.3	8
32	Use of preceramic polymers for magnesium diboride composites. Physica C: Superconductivity and Its Applications, 2012, 480, 102-107.	1.2	7
33	Magnetotransport properties of Y1â^'xPrxBa2Cu3O7â^'Î´ single crystals. Physica C: Superconductivity and Its Applications, 2004, 408-410, 713-715.	1.2	6
34	On the Scaling Law of the Pinning Force in MgB2 Superconducting Composites with Magnetic Nanoinclusions. Journal of Superconductivity and Novel Magnetism, 2013, 26, 125-131.	1.8	6
35	Experimental study on phase formation of SiC doped MgB₂: processing of Mgâ€“Bâ€“SiC powders by spark plasma sintering. Materials Research Innovations, 2014, 18, 407-411.	2.3	6
36	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

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37	Capacity coupled r.f. discharge plasma jet treatment of a-SiC:H structures. Thin Solid Films, 1997, 296, 23-27.	1.8	5
38	Title is missing!. Journal of Superconductivity and Novel Magnetism, 1998, 11, 245-251.	0.5	5
39	Effect of tritiation on the superconducting properties of MgB₂. Superconductor Science and Technology, 2013, 26, 045014.	3.5	5
40	Magnetic nanoparticles in MgB2. Physica C: Superconductivity and Its Applications, 2014, 498, 30-37.	1.2	5
41	Superconductivity in MgB 2 irradiated with energetic protons. Physica C: Superconductivity and Its Applications, 2016, 528, 27-34.	1.2	5
42	Metastable diamond formation from solutions at atmospheric pressure. Diamond and Related Materials, 1993, 2, 505-507.	3.9	4
43	Rapid Synthesis of Polycrystalline CuGa1-xInxTe2 Compounds. Crystal Research and Technology, 2000, 35, 265-270.	1.3	4
44	Paramagnetism and Superconductivity in Eu0.7Sm0.3Ba2Cu3O7??. Journal of Superconductivity and Novel Magnetism, 2004, 17, 701-710.	0.5	4
45	Fabrication and Superconducting Properties of ${m MgB}_{2}$ Doped With Polysiloxane Based Copolymers. IEEE Transactions on Applied Superconductivity, 2011, 21, 2631-2634.	1.7	4
46	One-Step Synthesis and Sintering of MgB2 by Spark Plasma Sintering. Journal of Superconductivity and Novel Magnetism, 2013, 26, 361-369.	1.8	4
47	Effect of P₂O₅ on the Structural and Magnetic Properties of Magnetiteâ€Based Glassâ€Ceramics. Journal of the American Ceramic Society, 2016, 99, 4013-4021.	3.8	4
48	Effects of pressure, time, and various additives on the crystallization of graphite and (Fe1â^'xNix)3C carbide in the Feî—¸Niî—¸C system. Materials Characterization, 1993, 30, 107-112.	4.4	3
49	Some aspects of diamond synthesis. Diamond and Related Materials, 1993, 2, 500-504.	3.9	3
50	Third harmonic ac susceptibility measurements in MgB2 bulk: frequency behavior of IL and 3D glass pinning analysis. Physica C: Superconductivity and Its Applications, 2004, 408-410, 120-122.	1.2	3
51	Magnetic response ofY0.47Pr0.53Ba2Cu3O7â^'Î´: Superconductivity, glassiness, and paramagnetism. Physical Review B, 2006, 74, .	3.2	3
52	Synthesis and characterization of star and brush grafted polysiloxanes, obtained by atom transfer radical polymerization. E-Polymers, 2008, 8, .	3.0	3
53	Fabrication and Transport Properties of Manganite-Polyacrylamide-Based Composites. Journal of Nanomaterials, 2009, 2009, 1-5.	2.7	3
54	Enhancement of Superconductivity in Quenched Î±-FeSe Flakes. Journal of Superconductivity and Novel Magnetism, 2013, 26, 3349-3353.	1.8	3

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55	Effect of Silver Addition to Superconducting SmFeAsO1âˆ'x F x. Journal of Superconductivity and Novel Magnetism, 2014, 27, 1635-1641.	1.8	3
56	Irreversibility in Rolled Tantalum. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2047-2054.	1.8	3
57	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
58	TEA-CO2 laser-deposited YBa2Cu3O7 superconducting thin films. Journal of Materials Science Letters, 1989, 8, 509-510.	0.5	2
59	Neutron irradiation of Li-doped YBa2Cu3O7??. Journal of Superconductivity and Novel Magnetism, 1995, 8, 337-340.	0.5	2
60	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
61	The Influence of Lithium Halides on the Superconducting Properties of YB2Cu3O7âˆ'x. Journal of Superconductivity and Novel Magnetism, 1998, 11, 653-661.	0.5	2
62	Charge Transport in Spin-Textured YBa2Cu3O6.25. Journal of Superconductivity and Novel Magnetism, 2004, 17, 455-458.	0.5	2
63	Evidence for Irradiation Triggered Nonuniform Defects Distribution in Multiharmonic Magnetic Susceptibility of Neutron Irradiated YBa2Cu3O7âˆ' Î´. Journal of Superconductivity and Novel Magnetism, 2005, 18, 573-581.	0.5	2
64	High temperature mixed statec-axis dissipation in low carrier densityY0.54Pr0.46Ba2Cu3O7âˆ'Î´. Physical Review B, 2006, 73, .	3.2	2
65	Doping dependence of vortex regimes inY1âˆ'xPrxBa2Cu3O7âˆ'Î´single crystals. Physical Review B, 2008, 77, .	3.2	2
66	Fluxâ€“creep activation energy for pure and SiC doped MgB2by ac-susceptibility measurements. Journal of Physics: Conference Series, 2008, 97, 012166.	0.4	2
67	Magnetic properties of MgB₂-Fe sandwiches produced by Field-Assisted-Sintering technique. Journal of Physics: Conference Series, 2009, 150, 052006.	0.4	2
68	Doping of MgB 2 Using Molecular Magnets as Precursors. Journal of Superconductivity and Novel Magnetism, 2014, 27, 1837-1843.	1.8	2
69	Effect of proton fluence on the superconducting properties of MgB2. irradiated with protons of high energy. Physica C: Superconductivity and Its Applications, 2020, 578, 1353734.	1.2	2
70	Partially-oriented MgB2 superconducting bulks with addition of B4C and cubic BN obtained by slip casting under high magnetic field and spark plasma sintering. Materials Research Bulletin, 2021, 134, 111103.	5.2	2
71	Towards high degree of c-axis orientation in MgB2 bulks. Journal of Magnesium and Alloys, 2022, 10, 2173-2184.	11.9	2
72	Characterization of diamond films with Fe inclusions. Diamond and Related Materials, 1992, 1, 489-491.	3.9	1

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73	Structure of Nisic microinclusions in synthetic diamond crystals. Materials Research Bulletin, 1992, 27, 53-57.	5.2	1
74	Fluctuation conductivity in Li-doped YBa2Cu3O7?x. Journal of Superconductivity and Novel Magnetism, 1996, 9, 487-492.	0.5	1
75	Fish-Tail Effect and Its Evolution Under Neutron Irradiation in Li-Doped YBa2Cu3O7â^'x. Journal of Superconductivity and Novel Magnetism, 2000, 13, 519-528.	0.5	1
76	The Influence of Neutron Irradiation on (B0.65C0.35)Ba1.4Sr0.6Ca2Cu3O z Superconducting Phase: The Role of the Grain Edge. Journal of Superconductivity and Novel Magnetism, 2005, 18, 461-467.	0.5	1
77	Vortex imaging with varying temperature revealed by SHPM on Bi2Sr2CaCu2O8+y. Physica C: Superconductivity and Its Applications, 2008, 468, 832-836.	1.2	1
78	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
79	Physical Properties of Polycrystalline CuGeO3 Prepared by Field-assisted Sintering Technique. Journal of Superconductivity and Novel Magnetism, 2016, 29, 775-780.	1.8	1
80	New superconductor/ferromagnet heterostructure formed by YBa2Cu3O7â^'x and CaRuO3. Superconductor Science and Technology, 2021, 34, 115009.	3.5	1
81	SMART SOLUBLE GRAFTED POLYSILOXANES WITH POTENTIAL APPLICATIONS IN WATERBORNE PAINTS. Environmental Engineering and Management Journal, 2008, 7, 337-342.	0.6	1
82	The influence of neutron irradiation on (B0.65C0.35)Ba1.4Sr0.6Ca2Cu3O z superconducting phase: The role of the grain edge. Journal of Superconductivity and Novel Magnetism, 2005, 18, 461-467.	0.5	1
83	The effect of LiOH addition to the superconducting properties of YBa2Cu3O7-x. Journal of Superconductivity and Novel Magnetism, 1997, 10, 231-239.	0.5	0
84	III-V compounds and piezoelectric ceramic thin films deposited by reactive PLD: application to sensor building. , 1998, , .		0
85	Laser treatment of a-SiC:H thin films for optoelectronic applications. , 1998, , .		0
86	Multilayer structures deposited by laser ablation. Sensors and Actuators A: Physical, 1999, 74, 27-30.	4.1	0
87	INTERPLAY BETWEEN SPIN AND CRYSTAL LATTICES IN ANTIFERROMAGNETIC YBa2Cu3O6.25. International Journal of Modern Physics B, 2002, 16, 3208-3211.	2.0	0
88	Fish-Tail Effect and Irreversibility Field of (Cu, C)Ba2Ca3Cu4O x -(LiF) y Superconductor. Journal of Superconductivity and Novel Magnetism, 2005, 18, 489-497.	0.5	0
89	Reentrant Irreversibility and Magnetic Transition in Strongly Underdoped Y0.47Pr0.53Ba2Cu3O7â^'Î´ Single Crystals. AIP Conference Proceedings, 2006, , .	0.4	0
90	Scaling of Conductivity through the Critical Temperature in Y0.54Pr0.46Ba2Cu3O7. AIP Conference Proceedings, 2006, , .	0.4	0

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91	Irreversible Magnetization above Critical Temperature in Superconducting Y0.47Pr0.53Ba2Cu3O7â^'Î´. AIP Conference Proceedings, 2007, , .	0.4	0
92	Development of Space Instabilities of Defect Distribution at High Fluences in Neutron Irradiated YBa2Cu3O7â^'Î´ Ceramics. AIP Conference Proceedings, 2007, , .	0.4	0
93	Transport and Magnetic Properties of CrO₂-Polymer Magnetic Composites. Advanced Materials Research, 2008, 47-50, 326-330.	0.3	0
94	Doped MgB2prepared by field assisted sintering technique. Journal of Physics: Conference Series, 2008, 97, 012079.	0.4	0
95	Physical Properties of Manganiteâ€Polysiloxanes Composites Obtained by Coâ€Precipitation. , 2009, , .		0
96	Nanostructured Ferrite Formation in Borosilicate Glass. Advanced Materials Research, 2009, 79-82, 445-448.	0.3	0
97	Nonmonotonic flux flow in inhomogeneous superconductors above the percolation threshold. Physica C: Superconductivity and Its Applications, 2009, 469, 126-128.	1.2	0
98	Polymer functionalization with manganites. , 2009, , .		0
99	Current dependent angular magnetoresistance in strongly Pr-dopedYBa2Cu3O7-Î´single crystal. Journal of Physics: Conference Series, 2009, 150, 052222.	0.4	0
100	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
101	Magnetism and transport properties of gamma-irradiated polymer-CrO2 composites. Journal of Magnetism and Magnetic Materials, 2010, 322, 1405-1408.	2.3	0
102	Fabrication and Electric Transport in MgB₂ Doped with Nanosized Carbon-Based Core-Shell Structures. Materials Science Forum, 2010, 663-665, 871-875.	0.3	0
103	On the scaling law of some characteristic fields in Y1â^'xPrxBa2Cu3O7â^'Î´. Physica C: Superconductivity and Its Applications, 2011, 471, 133-136.	1.2	0
104	Fabrication of Superconducting MgB₂-Based Nanocomposites with Magnetic Inclusions by Spark Plasma Sintering. Advanced Materials Research, 2012, 569, 3-6.	0.3	0
105	CoNb₂O₆ Ceramic with Geometric Frustration. Advanced Materials Research, 2012, 468-471, 542-545.	0.3	0
106	Effect of Nucleators and Intermediates on the Magnetic Properties of Nanosized Magnetite Obtained by Glass Crystallization. Journal of Computational and Theoretical Nanoscience, 2012, 9, 1541-1545.	0.4	0
107	On the scaling of pinning force in ceramic MgB2. Journal of Physics: Conference Series, 2012, 400, 022102.	0.4	0
108	Insertion versus Growth of Magnetic Nanoparticles in MgB₂ Superconducting Composites. Advanced Materials Research, 2014, 941-944, 458-461.	0.3	0

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109	Exotic Superconductivity in Correlated Electron Systems. Advances in Condensed Matter Physics, 2015, 2015, 1-2.	1.1	0
110	Possible Enhancement of Spin Fluctuations by Ag addition to SmFeAsO1âˆ'x F x. Journal of Superconductivity and Novel Magnetism, 2016, 29, 303-308.	1.8	0
111	INTERPLAY BETWEEN SPIN AND CRYSTAL LATTICES IN ANTIFERROMAGNETIC YBa₂Cu₃O_{6.25}. , 2002, , .		0
112	Evidence for irradiation triggered nonuniform defects distribution in multiharmonic magnetic susceptibility of neutron irradiated YBa2Cu3 O7âˆ'Ï‡. Journal of Superconductivity and Novel Magnetism, 2005, 18, 573-581.	0.5	0