

Joseph Horvat

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4315189/publications.pdf>

Version: 2024-02-01

232
papers

6,287
citations

117619

34
h-index

79691

73
g-index

235
all docs

235
docs citations

235
times ranked

5107
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of the critical current density and flux pinning of MgB ₂ superconductor by nanoparticle SiC doping. <i>Applied Physics Letters</i> , 2002, 81, 3419-3421.	3.3	770
2	Hydrothermal Synthesis and Optical, Magnetic, and Supercapacitance Properties of Nanoporous Cobalt Oxide Nanorods. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4357-4361.	3.1	374
3	Synthesis of Mesoporous $\gamma\text{-Fe}_2\text{O}_3$ Nanostructures for Highly Sensitive Gas Sensors and High Capacity Anode Materials in Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18753-18761.	3.1	311
4	Manganese-Based Layered Coordination Polymer: Synthesis, Structural Characterization, Magnetic Property, and Electrochemical Performance in Lithium-Ion Batteries. <i>Inorganic Chemistry</i> , 2013, 52, 2817-2822.	4.0	188
5	Effect of carbon nanotube doping on critical current density of MgB ₂ superconductor. <i>Applied Physics Letters</i> , 2003, 83, 4996-4998.	3.3	187
6	High-transport critical current density above 30 K in pure Fe-clad MgB ₂ tape. <i>Physica C: Superconductivity and Its Applications</i> , 2001, 361, 84-90.	1.2	176
7	Mineral- γ -Biochar Composites: Molecular Structure and Porosity. <i>Environmental Science & Technology</i> , 2016, 50, 7706-7714.	10.0	148
8	Flutelike Porous Hematite Nanorods and Branched Nanostructures: Synthesis, Characterisation and Application for Gas Sensing. <i>Chemistry - A European Journal</i> , 2008, 14, 5996-6002.	3.3	144
9	Facile Synthesis and Characterization of Iron Oxide Semiconductor Nanowires for Gas Sensing Application. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15220-15225.	3.1	143
10	Highly Ordered Mesoporous Cobalt Oxide Nanostructures: Synthesis, Characterisation, Magnetic Properties, and Applications for Electrochemical Energy Devices. <i>Chemistry - A European Journal</i> , 2010, 16, 11020-11027.	3.3	136
11	Very fast formation of superconducting MgB ₂ /Fe wires with high J _c . <i>Physica C: Superconductivity and Its Applications</i> , 2001, 361, 149-155.	1.2	126
12	Control of nano carbon substitution for enhancing the critical current density in MgB ₂ . <i>Superconductor Science and Technology</i> , 2006, 19, 596-599.	3.5	122
13	Effect of nano-carbon particle doping on the flux pinning properties of MgB ₂ superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 390, 185-190.	1.2	121
14	Chemolithotrophic processes in the bacterial communities on the surface of mineral-enriched biochars. <i>ISME Journal</i> , 2017, 11, 1087-1101.	9.8	121
15	High transport critical current density and large H _{c2} and H _{irr} in nanoscale SiC doped MgB ₂ wires sintered at low temperature. <i>Superconductor Science and Technology</i> , 2005, 18, 658-666.	3.5	97
16	Effects of Enriched Biochars Containing Magnetic Iron Nanoparticles on Mycorrhizal Colonisation, Plant Growth, Nutrient Uptake and Soil Quality Improvement. <i>Pedosphere</i> , 2015, 25, 749-760.	4.0	96
17	Superconductivity, critical current density, and flux pinning in MgB _{2-x} (SiC) _{x/2} superconductor after SiC nanoparticle doping. <i>Journal of Applied Physics</i> , 2003, 94, 1850-1856.	2.5	91
18	Nanoscale analyses of the surface structure and composition of biochars extracted from field trials or after co-composting using advanced analytical electron microscopy. <i>Geoderma</i> , 2017, 294, 70-79.	5.1	84

#	ARTICLE	IF	CITATIONS
19	Biochar-based fertilizer: Supercharging root membrane potential and biomass yield of rice. Science of the Total Environment, 2020, 713, 136431.	8.0	78
20	Significant enhancement of critical current density and flux pinning in MgB ₂ with nano-SiC, Si, and C doping. Physica C: Superconductivity and Its Applications, 2004, 408-410, 63-67.	1.2	76
21	Improvement of critical current in MgB ₂ /Fe superconducting wires by a ferromagnetic sheath. Applied Physics Letters, 2002, 80, 829-831.	3.3	72
22	Improving flux pinning of MgB ₂ by carbon nanotube doping and ultrasonication. Superconductor Science and Technology, 2006, 19, L5-L8.	3.5	71
23	Flux jumping and a bulk-to-granular transition in the magnetization of a compacted and sintered MgB ₂ superconductor. Physica C: Superconductivity and Its Applications, 2001, 361, 79-83.	1.2	67
24	The effect of nanoscale Fe doping on the superconducting properties of MgB ₂ . Superconductor Science and Technology, 2005, 18, 710-715.	3.5	61
25	Transport critical current density in Fe-sheathed nano-SiC doped MgB ₂ wires. IEEE Transactions on Applied Superconductivity, 2003, 13, 3199-3202.	1.7	57
26	Effect of (Bi,Pb) ₂ Sr ₂ CuO ₆ phase on critical current density of Ag/(Bi,Pb) ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ tapes. Physica C: Superconductivity and Its Applications, 1997, 291, 1-7.	1.2	53
27	Introduction of pinning centres into Bi - (Pb) - Sr - Ca - Cu - O superconductors. Superconductor Science and Technology, 1997, 10, A52-A67.	3.5	49
28	Strong pinning and high critical current density in carbon nanotube doped MgB ₂ . Superconductor Science and Technology, 2004, 17, S572-S577.	3.5	46
29	Spin glass behaviour in ferromagnetic La ₂ CoMnO ₆ perovskite manganite. Superconductor Science and Technology, 2002, 15, 427-430.	3.5	45
30	Current limiting effect of residual Bi ₂ Sr ₂ CuO ₆ in silver-sheathed (Bi,Pb) ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ superconductors. Physica C: Superconductivity and Its Applications, 1998, 300, 38-42.	1.2	40
31	Effect of processing temperature on high field critical current density and upper critical field of nanocarbon doped MgB ₂ . Applied Physics Letters, 2007, 90, 122502.	3.3	39
32	Oxygen vacancy ordering and magnetism in the rare earth stabilised perovskite form of $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$. Solid State Sciences, 2004, 6, 655-662.	3.2	37
33	Structural, physical and electrochemical characterisation of Li _{Ni_xCo_{1-x}} O ₂ solid solutions. Journal of Power Sources, 2000, 85, 279-283.	7.8	36
34	Pyrolysis of attapulgite clay blended with yak dung enhances pasture growth and soil health: Characterization and initial field trials. Science of the Total Environment, 2017, 607-608, 184-194.	8.0	36
35	Transport critical current of solenoidal MgB ₂ /Cu coils fabricated using a wind-reaction in situ technique. Superconductor Science and Technology, 2003, 16, L4-L6.	3.5	35
36	Spin glass state in Gd ₂ CoMnO ₆ perovskite manganite. Solid State Communications, 2001, 118, 27-30.	1.9	34

#	ARTICLE	IF	CITATIONS
37	Significant improvement in the critical current density of <i>in situ</i> MgB ₂ by excess Mg addition. Superconductor Science and Technology, 2007, 20, L43-L47.	3.5	34
38	Preparation of Ag - Bi-2223 tape by controlling the phase evolution prior to sintering. Superconductor Science and Technology, 1996, 9, 881-887.	3.5	33
39	Improvement of critical current density in the Cu/MgB ₂ and Ag/MgB ₂ superconducting wires using the fast formation method. Physica C: Superconductivity and Its Applications, 2002, 382, 187-193.	1.2	33
40	Surface effects of vapour-liquid-solid driven Bi surface droplets formed during molecular-beam-epitaxy of GaAsBi. Scientific Reports, 2016, 6, 28860.	3.3	33
41	The influence of pinning centres on magnetization and loss in Fe-Ni-B-Si amorphous alloys. Journal of Magnetism and Magnetic Materials, 1989, 82, 5-11.	2.3	32
42	Critical currents through strong links in Ag/Bi—, Sr—, Ca—, Cu—, O superconducting tapes. Physica C: Superconductivity and Its Applications, 1996, 271, 51-58.	1.2	32
43	The effect of mechanical deformation on silver - core interface and critical current density in Ag - Bi-2223 single- and multifilament tapes. Superconductor Science and Technology, 1996, 9, 875-880.	3.5	32
44	Fast formation and superconductivity of MgB ₂ thick films grown on stainless steel substrate. Physica C: Superconductivity and Its Applications, 2001, 361, 73-78.	1.2	31
45	Superconducting screening on different length scales in high-quality bulk MgB ₂ superconductor. Journal of Applied Physics, 2004, 96, 4342-4351.	2.5	31
46	Effect of heating rates on superconducting properties of pure MgB ₂ , carbon nanotube- and nano-SiC-doped <i>in situ</i> MgB ₂ •Fe wires. Applied Physics Letters, 2005, 87, 182504.	3.3	31
47	Effect of (Pb,Bi) ₃ Sr ₂ Ca ₂ Cu ₃ O _y phase on critical current density of Ag/(Bi,Pb) ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ tapes. Physica C: Superconductivity and Its Applications, 1998, 297, 1-9.	1.2	30
48	Spin-glass state in Y _{0.7} Ca _{0.3} MnO ₃ . Journal of Magnetism and Magnetic Materials, 1998, 182, L1-L4.	2.3	30
49	Effect of sample size on magnetic J _c for MgB ₂ superconductor. Applied Physics Letters, 2004, 84, 3109-3111.	3.3	29
50	Significant improvement of critical current density in coated MgB ₂ /Cu short tapes through nano-SiC doping and short-time <i>in situ</i> reaction. Superconductor Science and Technology, 2004, 17, L21-L24.	3.5	28
51	Transport and magnetic critical current in superconducting MgB ₂ wires. Superconductor Science and Technology, 2008, 21, 065003.	3.5	28
52	Controlled delivery of drugs adsorbed onto porous Fe ₃ O ₄ structures by application of AC/DC magnetic fields. Microporous and Mesoporous Materials, 2016, 226, 243-250.	4.4	27
53	Effect of Carbon Nanotube Size on Superconductivity Properties of MgB_2 . IEEE Transactions on Applied Superconductivity, 2005, 15, 3284-3287.	1.7	26
54	Critical currents in Ag/Bi-2223 superconducting tapes: grain connectivity and flux pinning. Physica C: Superconductivity and Its Applications, 1997, 275, 327-332.	1.2	25

#	ARTICLE	IF	CITATIONS
55	Effects of precursor powders and sintering processes on the superconducting properties of MgB ₂ . Superconductor Science and Technology, 2004, 17, S528-S532.	3.5	25
56	Magnetic field processing to enhance critical current densities of MgB ₂ superconductors. Applied Physics Letters, 2006, 89, 202504.	3.3	25
57	Polyhedral Magnetite Nanocrystals with Multiple Facets: Facile Synthesis, Structural Modelling, Magnetic Properties and Application for High Capacity Lithium Storage. Chemistry - A European Journal, 2012, 18, 488-497.	3.3	24
58	Effect on the phase formation of Bi-2223 in some Ag-alloy sheathed PIT tapes. Physica C: Superconductivity and Its Applications, 1998, 307, 229-236.	1.2	23
59	Intense vortex pinning enhanced by semicrystalline defect traps in self-aligned nanostructured MgB ₂ . Applied Physics Letters, 2003, 83, 314-316.	3.3	23
60	Magnetic nanoparticles for "smart liposomes". European Biophysics Journal, 2015, 44, 647-654.	2.2	23
61	Terahertz Spectroscopy of 2,4-Dinitrotoluene over a Wide Temperature Range (7-245 K). Journal of Physical Chemistry A, 2015, 119, 263-270.	2.5	23
62	Formation of weak and strong links in Ag/Bi-2223 superconducting tapes. Physica C: Superconductivity and Its Applications, 1996, 271, 59-66.	1.2	22
63	Enhanced flux pinning by Fe point defects in Bi ₂ Sr ₂ Ca(Cu _{1-x} Fe _x) ₂ O ₈ single crystals. Physica C: Superconductivity and Its Applications, 2000, 337, 221-224.	1.2	22
64	Superconductivity and flux pinning in Y and heavily Pb codoped Bi-2212 single crystals. Journal of Applied Physics, 2001, 89, 7669-7671.	2.5	22
65	Peeling adhesive tape emits electromagnetic radiation at terahertz frequencies. Optics Letters, 2009, 34, 2195.	3.3	22
66	Complementary terahertz absorption and inelastic neutron study of the dynamic anisotropy contribution to zone-center spin waves in a canted antiferromagnet $NdFeO_3$. Physical Review B, 2014, 90.	3.2	22
67	Anharmonicity-driven redshift and broadening of sharp terahertz features of α -glycine single crystal from 20 Å to 300 Å: Theory and experiment. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 244, 118635.	3.9	22
68	Reduction of loss in MetglasR 2714 alloy. Journal of Magnetism and Magnetic Materials, 1990, 92, L25-L29.	2.3	21
69	The variation of the domain wall pinning strength with the depth within the Co ₇₄ Fe ₆ B ₂₀ amorphous alloy. Journal of Magnetism and Magnetic Materials, 1991, 96, L13-L16.	2.3	21
70	Improvement of grain connectivity in Bi2223/Ag tapes by reducing Bi2201 phase at grain boundaries. Physica C: Superconductivity and Its Applications, 1998, 300, 43-48.	1.2	21
71	Zinc doping effects on the structure, transport and magnetic properties of La _{0.7} Sr _{0.3} Mn _{1-x} Zn _x O ₃ manganite oxide. Science and Technology of Advanced Materials, 2003, 4, 149-152.	6.1	21
72	Effect of grain size and doping level of sic on the superconductivity and critical current density in MgB ₂ /superconductor. IEEE Transactions on Applied Superconductivity, 2003, 13, 3273-3276.	1.7	21

#	ARTICLE	IF	CITATIONS
73	Comparative study of in situ MgB ₂ films prepared by pulsed laser deposition. Superconductor Science and Technology, 2004, 17, S482-S485.	3.5	21
74	Critical currents in high-quality YBaCuO ceramics investigated by magnetization, a.c. susceptibility and electrical transport. Journal of the Less Common Metals, 1989, 151, 89-96.	0.8	19
75	Effect of hot pressing on the weak-link behaviour of Ag clad Bi based superconducting tapes. Physica C: Superconductivity and Its Applications, 1996, 259, 187-192.	1.2	19
76	Cu and nano-SiC doped MgB ₂ thick films on Ni substrates processed using a very short-time in situ reaction. Physica C: Superconductivity and Its Applications, 2004, 402, 38-44.	1.2	19
77	Novel synthesis of superparamagnetic Ni@Co@B nanoparticles and their effect on superconductor properties of MgB ₂ . Acta Materialia, 2014, 70, 298-306.	7.9	19
78	Large irreversible magnetization arising from the domain freezing in La _{0.7} Ca _{0.3} MnO ₃ perovskite. Solid State Communications, 1998, 108, 661-665.	1.9	18
79	Intrinsic nanostructural domains: Possible origin of weaklinkless superconductivity in the quenched reaction product of Mg and amorphous B. Applied Physics Letters, 2002, 81, 874-876.	3.3	18
80	Domain Wall Pinning in Amorphous Metallic Ribbons Carrying an Electric Current. Physica Status Solidi A, 1992, 129, 519-528.	1.7	17
81	Study of structure, transport, paramagnetic and ferromagnetic properties of La _{0.8} Sr _{0.2} Mn _{1-x} Zn _x O ₃ perovskite manganite. Superconductor Science and Technology, 2002, 15, 346-350.	3.5	17
82	Structure and spin glass behaviour in non-metallic Yb ₂ CoMnO ₆ perovskite manganite. Journal of Magnetism and Magnetic Materials, 2002, 246, 86-92.	2.3	17
83	Domain wall stabilization in Co ₇₄ Fe ₆ B ₂₀ amorphous alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1991, 63, 1235-1245.	0.6	16
84	Structure and magnetism in the oxygen-deficient perovskites Ce _{1-x} Sr _x CoO _{3-δ} ($\delta \approx 0.90$). Materials Research Bulletin, 2005, 40, 1415-1431.	5.2	16
85	Effect of Carbon Substitution on the Superconducting Properties of $\{m \text{ MgB}_2\}_{2}$ Doped With Multi-Walled Carbon Nanotubes and Nano Carbon. IEEE Transactions on Applied Superconductivity, 2007, 17, 2929-2932.	1.7	16
86	Excess Mg addition MgB ₂ /Fe wires with enhanced critical current density. Journal of Applied Physics, 2008, 103, 083911.	2.5	16
87	Off-axis MgB ₂ films using an in situ annealing pulsed laser deposition method. Superconductor Science and Technology, 2005, 18, 395-399.	3.5	15
88	Improvement of flux pinning by thermo-mechanical treatment of Bi-2223/Ag superconducting tapes. Superconductor Science and Technology, 1997, 10, 409-415.	3.5	14
89	Nano-sized Al ₂ O ₃ doping effects on the critical current density of MgB ₂ superconductors. Ceramics International, 2004, 30, 1581-1583.	4.8	14
90	Mechanisms of x-ray emission from peeling adhesive tape. Applied Physics Letters, 2010, 97, .	3.3	14

#	ARTICLE	IF	CITATIONS
91	Collective librations of water molecules in the crystal lattice of rubidium bromide: experiment and simulation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20252.	2.8	14
92	Enhanced flux pinning from CuO inclusions in Bi ₂ Sr ₂ CaCu ₂ O ₇ crystals. <i>Journal of Applied Physics</i> , 1997, 81, 533-535.	2.5	13
93	The influence of pinning centres on the magnetization of a Co _{70.3} Fe _{4.7} Si ₁₅ B ₁₀ amorphous alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 1990, 87, 339-344.	2.3	12
94	Grain connectivity and flux pinning in Bi-2223/Ag PIT tapes. <i>Physica C: Superconductivity and Its Applications</i> , 1998, 307, 29-45.	1.2	12
95	Critical current density significantly enhanced by hot pressing in Bi-2223/Ag multifilamentary tapes. <i>Superconductor Science and Technology</i> , 1998, 11, 1101-1104.	3.5	12
96	Effect of grain connectivity and density on the magnetoresistance in Ca or Li doped lanthanum manganites. <i>Solid State Communications</i> , 2000, 117, 53-56.	1.9	12
97	Enhancing superconducting properties of MgB ₂ pellets by addition of amorphous magnetic Ni-Co-B nanoparticles. <i>Superconductor Science and Technology</i> , 2013, 26, 075013.	3.5	12
98	Magnetic Interaction between Pr ³⁺ and Dy ³⁺ Spins and Their Spin Transition Induced by Magnetic Field in a Dy _{0.5} Pr _{0.5} FeO ₃ Single Crystal. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30584-30593.	3.1	12
99	Reduction of loss in composite magnetic material. <i>Journal of Magnetism and Magnetic Materials</i> , 1992, 110, L25-L28.	2.3	11
100	Optimization of processing to improve critical current density of Ag/Bi-2223 tapes. <i>Superconductor Science and Technology</i> , 1998, 11, 915-920.	3.5	11
101	Critical role of phase transformation during processing of Ag/Bi:2223 tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 2436-2439.	1.7	11
102	The crystal structure and magnetic properties of the 1-dimensional dihalide-bridged polymers dichlorobis(thiazole)cobalt(II) and dibromobis(thiazole)-cobalt(II). <i>Journal of Physics and Chemistry of Solids</i> , 2002, 63, 657-663.	4.0	11
103	Magnetic shielding in MgB ₂ /Fe superconducting wires. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 3324-3327.	1.7	11
104	Fabrication, microstructure and critical current density of pure and Cu doped MgB ₂ thick films on Cu, Ni and stainless steel substrates by short-time in-situ reaction. <i>Ceramics International</i> , 2004, 30, 1603-1606.	4.8	11
105	Enhancement of critical current density and irreversibility field by nano-carbon substitution in MgB ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 568-569.	1.2	11
106	The Influence of CuFe ₂ O ₄ Nanoparticles on Superconductivity of MgB ₂ . <i>Physics Procedia</i> , 2012, 36, 1498-1503.	1.2	11
107	Magnetization processes in amorphous ribbons influenced by electrical current in the ribbon. <i>Journal of Magnetism and Magnetic Materials</i> , 1992, 104-107, 359-360.	2.3	10
108	Order-disorder transition in Bi _{2.1} Sr _{1.9} CaCu ₂ O ₈ single crystals doped with Fe and Pb. <i>Physical Review B</i> , 2002, 65, .	3.2	10

#	ARTICLE	IF	CITATIONS
109	The relevance of the self-field for the $\mu_0 J_c(H)$ peak effect in the transport $J_c(H)$ of iron-sheathed MgB ₂ wires. Superconductor Science and Technology, 2005, 18, 682-688.	3.5	10
110	Superconducting and Microstructural Properties of Two Types of MgB_2 Films Prepared by Pulsed Laser Deposition. IEEE Transactions on Applied Superconductivity, 2005, 15, 3261-3264.	1.7	10
111	Terahertz (6–15 THz) Spectroscopy and Numerical Modeling of Intermolecular Vibrations in Benzoic Acid and Its Derivatives. Applied Spectroscopy, 2015, 69, 590-596.	2.2	10
112	Anomalous magnetization peak effect in spiral-grown Bi ₂ Sr ₂ CaCu ₂ O _y crystals. Physical Review B, 1997, 55, R3402-R3405.	3.2	9
113	Spiral growth of Bi ₂ Sr ₂ CaCu ₂ O _y single crystals using KCl flux technique. Journal of Crystal Growth, 1997, 173, 380-385.	1.5	9
114	Effect of various mechanical deformation processes on critical current density and microstructure in MgB ₂ tapes and wires. Superconductor Science and Technology, 2002, 15, 1490-1493.	3.5	9
115	Non-zero spontaneous magnetic moment along crystalline c -axis for rare earth orthoferrites. Journal of Applied Physics, 2020, 127, .	2.5	9
116	Terahertz response of α -alanine: experiment and theory. Physical Chemistry Chemical Physics, 2021, 23, 657-665.	2.8	9
117	Temperature-dependent terahertz spectroscopy of L-phenylalanine. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 260, 119922.	3.9	9
118	Depinning current for flux lines in Ag/BSCCO superconducting tapes. Superconductor Science and Technology, 1995, 8, 904-908.	3.5	8
119	Grain-boundary links and critical current of tapes. Superconductor Science and Technology, 1997, 10, 444-449.	3.5	8
120	Two-dimensional effects in AC losses of Bi ₂ Sr ₂ Ca ₂ Cu ₃ O _x tapes. Physica C: Superconductivity and Its Applications, 1997, 274, 9-16.	1.2	8
121	Thermal activation and ac-field-induced discontinuous domain jumps in perovskite La _{0.7} Ca _{0.3} MnO ₃ . Physical Review B, 1998, 58, 2434-2437.	3.2	8
122	Cryogenic deformation process of high temperature superconductors. Superconductor Science and Technology, 1998, 11, 781-787.	3.5	8
123	Effect of the phase compositions at the final stage of heat treatment on the critical current density in Bi ₂ 2223/Ag tapes. Superconductor Science and Technology, 1998, 11, 1057-1060.	3.5	8
124	Enhancement of vortex pinning by Josephson coupling of two-dimensional pancake vortices in heavy lead-doped Bi _{2-x} Pb _x Sr ₂ CaCu ₂ O _y . Superconductor Science and Technology, 2001, 14, 479-485.	3.5	8
125	Si addition in in situ annealed MgB ₂ thin films by pulsed laser deposition. Superconductor Science and Technology, 2004, 17, 1247-1252.	3.5	8
126	Nanotechnology and its medical applications: revisiting public policies from a regulatory perspective in Australia. Nanotechnology Reviews, 2017, 6, 255-269.	5.8	8

#	ARTICLE	IF	CITATIONS
127	Impact of Pr on structural, superconducting and magnetic properties of $Y_{1-x}Pr_xBaSrCu_3O_7$. Journal of Magnetism and Magnetic Materials, 1998, 182, L280-L286.	2.3	7
128	Synthesis, structural aspects and superconductivity of $La_{1-x}RE_xBaCaCu_3O_7$ with RE=Nd, Dy, Sm and Pr. Physica C: Superconductivity and Its Applications, 1998, 301, 48-54.	1.2	7
129	Fabrication and properties of some Ag-alloy sheathed Bi-2223 tapes. IEEE Transactions on Applied Superconductivity, 1999, 9, 2710-2713.	1.7	7
130	Vortex pinning in heavily Pb-doped Bi2212 crystals. Physica C: Superconductivity and Its Applications, 1999, 324, 211-219.	1.2	7
131	The effects of uranium doping and thermal neutron irradiation on the pinning properties of Ag/Bi-2223 tapes. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1119-1120.	1.2	7
132	Flux pinning and inhomogeneity in magnetic nanoparticle doped MgB_2/Fe wires. Journal of Physics: Conference Series, 2010, 234, 022027.	0.4	7
133	Interplay between boron precursors and Ni-Co-B nanoparticle doping in the fabrication of MgB_2 superconductor with improved electromagnetic properties. Acta Materialia, 2014, 80, 457-467.	7.9	7
134	Piezoresistive and Electrical Properties of a Catecholic Amino Acid-Polyacrylamide Single-Walled Carbon Nanotube Hydrogel Hybrid Network. ACS Applied Polymer Materials, 2021, 3, 671-678.	4.4	7
135	Magnetization reversal on different time-scales for $ErFeO_3$ and $NdFeO_3$ single crystals. Physical Chemistry Chemical Physics, 2021, 23, 5415-5421.	2.8	7
136	Advanced characterization of biomineralization at plaque layer and inside rice roots amended with iron- and silica-enhanced biochar. Scientific Reports, 2021, 11, 159.	3.3	7
137	First extensive study of silver-doped lanthanum manganite nanoparticles for inducing selective chemotherapy and radio-toxicity enhancement. Materials Science and Engineering C, 2021, 123, 111970.	7.3	7
138	Shift of Hysteresis Loop of Amorphous Ribbons Carrying an Electrical Current. Physica Status Solidi A, 1992, 134, 521-528.	1.7	6
139	Process of magnetization in amorphous ribbons carrying an electric current. Journal of Magnetism and Magnetic Materials, 1992, 109, 191-196.	2.3	6
140	Irreversibility behavior of different types of $Bi_{1-x}(Pb)_xSr_{1-y}Ca_{1-z}Cu_{1-w}O$ superconductors. Physica C: Superconductivity and Its Applications, 1997, 281, 321-324.	1.2	6
141	Effect of final annealing temperature on critical current density of Ag/Bi-(Pb)-Sr-Ca-Cu-O tapes. Applied Superconductivity, 1997, 5, 171-177.	0.5	6
142	Large enhancement of peak effect induced by heavy Pb doping in $Bi_2Sr_2CaCu_2O_{8+\delta}$ single crystals. Physica C: Superconductivity and Its Applications, 2000, 337, 225-228.	1.2	6
143	Effects of Cr doping on the structure, charge ordering, transport and spin ordering state in $Nd_{0.5}Sr_{0.5}Mn_{1-x}Cr_xO_3$. Physica C: Superconductivity and Its Applications, 2001, 364-365, 343-346.	1.2	6
144	Stress/Strain Induced Flux Pinning in Highly Dense $\{m MgB\}_2$ Bulks. IEEE Transactions on Applied Superconductivity, 2009, 19, 2722-2725.	1.7	6

#	ARTICLE	IF	CITATIONS
145	Calorimetric AC loss measurement of MgB ₂ superconducting tape in an alternating transport current and direct magnetic field. <i>Superconductor Science and Technology</i> , 2012, 25, 115016.	3.5	6
146	Mechanism of periodic height variations along self-aligned VLS-grown planar nanostructures. <i>Nanoscale</i> , 2015, 7, 20442-20450.	5.6	6
147	Superficial and Fundamental Correspondences in the Terahertz/IR (6–15 THz) Absorption Spectra of Aspirin and Benzoic Acid. <i>Journal of Physical Chemistry A</i> , 2018, 122, 6886-6893.	2.5	6
148	High-quality, temperature-dependent terahertz spectroscopy of single crystalline L-alanine: Experiment and density-functional theory. <i>Journal of Chemical Physics</i> , 2021, 154, 244311.	3.0	6
149	On the use of a volume constraint to account for thermal expansion effects on the low-frequency vibrations of molecular crystals. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10408-10419.	2.8	6
150	The investigation of the process of magnetization in FeNiBSi glasses by means of the Barkhausen jumps. <i>Journal of Magnetism and Magnetic Materials</i> , 1990, 86, L1-L6.	2.3	5
151	Non-exponential decrease of critical current with field in Bi-2223/Ag superconducting tapes at elevated fields. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 277, 183-188.	1.2	5
152	Reduction of the a.c. losses in Ag sheathed PbBi2223 tapes with twisted filaments. <i>Physica C: Superconductivity and Its Applications</i> , 1999, 325, 77-82.	1.2	5
153	Effect of uranium doping and thermal neutron irradiation on the flux-pinning of silver-clad Bi-Sr-Ca-Cu-O tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 2001, 11, 3896-3899.	1.7	5
154	Interaction between superconductor and ferromagnetic domains in iron sheath: Peak effect in MgB ₂ -Fe wires. <i>Applied Physics Letters</i> , 2005, 87, 102503.	3.3	5
155	Transport critical current of MgB ₂ wires: pulsed current of varying rate compared to direct current method. <i>Superconductor Science and Technology</i> , 2011, 24, 105009.	3.5	5
156	Improvements in the Dispersion of Nanosilver in a MgB ₂ Matrix through a Graphene Oxide Net. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10631-10640.	3.1	5
157	A comparison between the characteristics of a biochar-NPK granule and a commercial NPK granule for application in the soil. <i>Science of the Total Environment</i> , 2022, 832, 155021.	8.0	5
158	Frequency and peak magnetization dependence of the coercive field in Fe-Ni-B-Si amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1992, 110, 215-220.	2.3	4
159	Surface and volume pinning of domain walls in amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1993, 123, 41-51.	2.3	4
160	Effect on critical current density and irreversibility behaviour of mechanical deformation of Bi-(Pb)-Sr-Ca-Cu-O superconducting tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 1997, 7, 1841-1844.	1.7	4
161	Effect of Cu-site Co, Ni and Ga substitution on the superconductivity of tetragonal LaBaCaCu ₃ O ₇ system. <i>Physica C: Superconductivity and Its Applications</i> , 1998, 301, 205-214.	1.2	4
162	Significantly enhanced critical current density in Bi-2223/Ag multifilamentary tapes by hot pressing. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 2742-2745.	1.7	4

#	ARTICLE	IF	CITATIONS
163	Scaling of the magnetic response and field dependence for the characteristic pinning energy in (Y, Tj) ETQq1 1 0.784314 rgBT ₄ /Overlock	3.5	4
164	The effect of hydrogenation on the superconducting transition temperature of MgB ₂ . Physica C: Superconductivity and Its Applications, 2002, 382, 213-216.	1.2	4
165	Effect of Ti Doping on the Superconductivities of MgB ₂ /Fe Wires. Journal of Low Temperature Physics, 2003, 131, 687-692.	1.4	4
166	Bioelectromagnetics Research within an Australian Context: The Australian Centre for Electromagnetic Bioeffects Research (ACEBR). International Journal of Environmental Research and Public Health, 2016, 13, 967.	2.6	4
167	Aerographite phonon density of states affects double resonant Raman scattering. Journal of Applied Physics, 2020, 128, .	2.5	4
168	SECOND PEAK IN AC LOSSES OF Bi ₂ Sr ₂ Ca ₁ Cu ₂ O _x TAPES. Modern Physics Letters B, 1996, 10, 1245-1260.	1.9	3
169	Difference in mechanical properties of weak and strong links in Bi-2223/Ag superconducting tapes. Physica C: Superconductivity and Its Applications, 1998, 297, 10-14.	1.2	3
170	Origin and characterisation of peak effect in pure and Pb doped Bi-2212 single crystals. Physica C: Superconductivity and Its Applications, 2000, 341-348, 651-652.	1.2	3
171	Field and temperature dependence of critical current density of Fe doped Bi2212 single crystals. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1351-1352.	1.2	3
172	The peak effect in Fe-doped Bi-2212 single crystals. Superconductor Science and Technology, 2002, 15, 356-360.	3.5	3
173	A comparison of ag and Ag-alloy sheathed Bi-2223 tapes. IEEE Transactions on Applied Superconductivity, 2003, 13, 3004-3007.	1.7	3
174	Uranium Doping and Thermal Neutron Irradiation Flux Pinning Effects in MgB ₂ . IEEE Transactions on Applied Superconductivity, 2004, 14, 33-39.	1.7	3
175	Detection of biochar components for soil fertility using THz-TDS. , 2010, , .		3
176	Terahertz Spectroscopy of Biochars and Related Aromatic Compounds. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 1158-1165.	2.2	3
177	The Fundamental Terahertz Mode of L-Alanine: Strong Narrowing, More Symmetry and Small and Non-Uniform Shift as Temperature is Reduced. , 2019, , .		3
178	Temperature dependence of Raman scattering spectroscopy in aerographite and single-walled carbon nanotube aerogel. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	3
179	Distinction of different types of pinning centers in metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 133, 192-195.	5.6	2
180	Evidence of defect pinning in the superconducting Bi-(Pb)-Sr-Ca-Cu-O system. Physica C: Superconductivity and Its Applications, 1997, 282-287, 2133-2134.	1.2	2

#	ARTICLE	IF	CITATIONS
181	Improvement of transport properties in Bi-based superconducting tapes through the modification of precursor powder and heat treatment. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 2595-2596.	1.2	2
182	Enhanced flux pinning and fishtail effect in spiral grown Bi ₂ Sr ₂ CaCu ₂ O _y single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 2125-2126.	1.2	2
183	Diamagnetic transition of Bi2223/Ag tapes: the role of low-number stacks of superconducting layers. <i>Physica C: Superconductivity and Its Applications</i> , 1998, 299, 231-239.	1.2	2
184	Effects of mechanical deformation on critical current of Bi-2223/Ag tapes. <i>Superconductor Science and Technology</i> , 1998, 11, 1098-1100.	3.5	2
185	Effect of cryogenic deformation on microstructure and critical current density in Ag/Bi-2223 tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 2726-2729.	1.7	2
186	Effect of fission tracks on flux pinning and the resistive transition in neutron irradiated uranium-doped Ag/Bi2223 tapes. <i>Superconductor Science and Technology</i> , 2002, 15, 1596-1599.	3.5	2
187	Effects of fission-fragment damage on vortex dimensionality in silver-sheathed Bi ₂ Sr ₂ Ca ₂ Cu ₃ O _x tapes. <i>Physical Review B</i> , 2003, 68, .	3.2	2
188	Temperature effect on microstructure and electromagnetic performance of polycarbosilane and sugar-doped MgB ₂ wires. <i>Journal of Physics: Conference Series</i> , 2010, 234, 022033.	0.4	2
189	Robustness in Coupling between Iron and Rare Earth Spins in Rare Earth Orthoferrites. <i>Materials Science Forum</i> , 0, 985, 29-34.	0.3	2
190	The 3, 5, 6, and 7 ÅTHz resonances of $\hat{1}\pm$ -glycine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 253, 119544.	3.9	2
191	Characteristic Spectral Features of <i><i>Terra Preta</i></i> (TP) in the 5â€“15 Terahertz Range. <i>Applied Spectroscopy</i> , 2022, 76, 300-309.	2.2	2
192	Spectroscopic Studies of BA Class Liquid Crystals in the 6â€“15 THz Range Using the Fourier Transform Infrared (FT-IR) Method. <i>Applied Spectroscopy</i> , 2022, 76, 823-830.	2.2	2
193	Inter- and intragrain critical currents in a dense YBa ₂ Cu ₃ O ₇ ceramic. <i>Superconductor Science and Technology</i> , 1989, 2, 164-168.	3.5	1
194	Reduction of loss using the pinning inhomogeneity in Co-based amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1991, 101, 19-20.	2.3	1
195	Comparative studies on single crystals and superconducting Bi-(Pb)-Sr-Ca-Cu-O tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 1997, 7, 2219-2222.	1.7	1
196	Two-peak structure of AC susceptibility of Bi ₂ Sr ₂ CaCu ₂ O _x tapes. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 877-878.	1.2	1
197	Influence of thermomechanical treatment of Bi-2223/Ag tapes on I _c vs. H at elevated fields. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 2283-2284.	1.2	1
198	Two-peak structure of AC susceptibility of Bi ₂ Sr ₂ CaCu ₂ O _x tapes. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 2621-2622.	1.2	1

#	ARTICLE	IF	CITATIONS
199	Flux creep in heavily lead doped Bi2212 single crystal. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1369-1370.	1.2	1
200	Improvement of J_c and H_{c2} in MgB ₂ superconductor with citric acid addition. Journal of Physics: Conference Series, 2008, 97, 012215.	0.4	1
201	Flux dynamics in (Y,Nd) _{1-x} Ba _{2-x} Cu _{3-x} O _{7-δ} superconductors. EPJ Applied Physics, 2011, 53, 10801.	0.7	1
202	Signature of aromatic carbons in the terahertz spectroscopy of bio-chars. , 2013, , .		1
203	Terahertz spectroscopic characterization for carbon-based materials. , 2016, , .		1
204	Thermal characteristic of dark resistivity of InGaAs photoconductive semiconductor switches. Journal of Materials Science: Materials in Electronics, 2019, 30, 15339-15344.	2.2	1
205	Effects of Ca substitution on quasiacoustic sliding modes in Sr _{1-x} CaxCu ₂ O ₄ . Physical Review B, 2019, 100, .	3.2	1
206	Raman Spectroscopy of Sucrose, D(+) Glucose and D(-) Fructose in Terahertz and Infrared Frequencies. , 2021, , .		1
207	Variation of relaxation frequencies with depth in amorphous Co ₇₄ Fe ₆ B ₂₀ ribbons. Physica Status Solidi A, 1993, 138, 297-305.	1.7	0
208	On the role of Bi ₂ Sr ₂ Ca ₁ Cu ₂ O ₈ and Bi ₂ Sr ₂ Cu ₁ O ₆ on the weak links and critical currents in (Bi,Pb) ₂ Sr ₂ Ca ₂ Cu ₂ O ₁₀ /Ag superconducting tapes. Applied Superconductivity, 1997, 5, 179-185.	0.5	0
209	Peculiarities of texturing of Y-123 single domain samples by the use of Sm-123 seed and Y-211 substrate. Physica C: Superconductivity and Its Applications, 1997, 282-287, 505-506.	1.2	0
210	Reflection of two-dimensionality on the temperature dependence of AC susceptibility. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1991-1992.	1.2	0
211	Dependence of critical current density and irreversibility field on the oxygen disordering for single domain melt-textured Y-123. Physica C: Superconductivity and Its Applications, 1998, 298, 80-84.	1.2	0
212	Comparative studies of the fishtail effect associated with surface pinning and oxygen vacancy network in spiral and layer-by-layer grown single crystals. Superconductor Science and Technology, 1998, 11, 1041-1044.	3.5	0
213	Title is missing!. Journal of Materials Science Letters, 1999, 18, 525-528.	0.5	0
214	Measurements of the a.c. losses in Ag sheathed PbBi ₂ 223 tapes with twisted filaments. Physica C: Superconductivity and Its Applications, 2000, 341-348, 2577-2578.	1.2	0
215	Grain connectivity and vortex pinning in high-temperature superconductors. , 2001, , 129-168.		0
216	Magnetic hysteresis and relaxation in Bi2212 single crystals doped with Fe and Pb. IEEE Transactions on Applied Superconductivity, 2003, 13, 3770-3773.	1.7	0

#	ARTICLE	IF	CITATIONS
217	Superconducting Properties of MgB ₂ Superconductor Doped with SiC Nanopowder. Journal of Metastable and Nanocrystalline Materials, 2003, 15-16, 679-684.	0.1	0
218	Effect of Sintering Temperature on Microstructure and Critical Current Density of Nanocrystallined MgB ₂ Thick Films Prepared Using very Fast Formation Method. Journal of Metastable and Nanocrystalline Materials, 2003, 15-16, 349-354.	0.1	0
219	An alternative method for determination of the lock-in angle in twinned superconductors. Journal of Applied Physics, 2006, 99, 043904.	2.5	0
220	Vortex dynamics in (Tl,Pb)(Sr,Ba)2Ca2Cu3Oy single crystal. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1241-1242.	1.2	0
221	Magnetic and superconducting properties of spin-fluctuation-limited superconducting nanoscale VNx. Journal of Applied Physics, 2012, 111, .	2.5	0
222	Complementary techniques for probing terahertz magnetic excitations in Cu₃Bi(SeO₃)₂O₂Cl. , 2012, , .		0
223	High temperature anisotropy of NdFeO₃ determined using time-domain THz spectroscopy. , 2013, , .		0
224	Absorption spectra of benzoic acid in the 5–15 THz range. , 2014, , .		0
225	Magnetization curves of sintered heavy tungsten alloys for applications in MRI-guided radiotherapy. Medical Physics, 2014, 41, 061707.	3.0	0
226	THz absorption bands in Sr₁₄Cu₂₄O₄₁ by synchrotron radiation. , 2014, , .		0
227	THz spectroscopic characterization of biochar. , 2015, , .		0
228	Experimental and calculated THz spectra of analgesics. , 2017, , .		0
229	Terahertz Response of L-Serine at Low Temperatures. , 2021, , .		0
230	Distinction of different types of pinning centers in metallic glasses. , 1991, , 192-195.		0
231	Redshifting of the Fundamental Mode of DL-Alanine with Increasing Temperature. , 2020, , .		0
232	Low-Frequency Terahertz Raman Spectra of Graphite Flakes and Single-Walled Carbon Nanotube Aerogel. , 2020, , .		0