

# Joseph Horvat

## List of Publications by Year in descending order

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232  
papers

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#	ARTICLE	IF	CITATIONS
1	Characteristic Spectral Features of <i>Terra Preta</i> (TP) in the 5–15 Terahertz Range. <i>Applied Spectroscopy</i> , 2022, 76, 300-309.	1.2	2
2	Spectroscopic Studies of BA Class Liquid Crystals in the 6–15 THz Range Using the Fourier Transform Infrared (FT-IR) Method. <i>Applied Spectroscopy</i> , 2022, 76, 823-830.	1.2	2
3	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.	3.9	5
4	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.	1.3	6
5	Anharmonicity-driven redshift and broadening of sharp terahertz features of $\alpha$ -glycine single crystal from 20 Å to 300 Å: Theory and experiment. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 244, 118635.	2.0	22
6	Piezoresistive and Electrical Properties of a Catecholic Amino Acid–Polyacrylamide Single-Walled Carbon Nanotube Hydrogel Hybrid Network. <i>ACS Applied Polymer Materials</i> , 2021, 3, 671-678.	2.0	7
7	Terahertz response of <i>D</i> -alanine: experiment and theory. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 657-665.	1.3	9
8	Magnetization reversal on different time-scales for $\text{ErFeO}_3$ and $\text{NdFeO}_3$ single crystals. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5415-5421.	1.3	7
9	Advanced characterization of biomineralization at plaque layer and inside rice roots amended with iron- and silica-enhanced biochar. <i>Scientific Reports</i> , 2021, 11, 159.	1.6	7
10	First extensive study of silver-doped lanthanum manganite nanoparticles for inducing selective chemotherapy and radio-toxicity enhancement. <i>Materials Science and Engineering C</i> , 2021, 123, 111970.	3.8	7
11	Temperature dependence of Raman scattering spectroscopy in aerographite and single-walled carbon nanotube aerogel. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	3
12	The 3, 5, 6, and 7 THz resonances of $\alpha$ -glycine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 253, 119544.	2.0	2
13	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.	1.2	6
14	Temperature-dependent terahertz spectroscopy of L-phenylalanine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 260, 119922.	2.0	9
15	Raman Spectroscopy of Sucrose, D(+) Glucose and D(-) Fructose in Terahertz and Infrared Frequencies. , 2021, , .		1
16	Terahertz Response of L-Serine at Low Temperatures. , 2021, , .		0
17	Biochar-based fertilizer: Supercharging root membrane potential and biomass yield of rice. <i>Science of the Total Environment</i> , 2020, 713, 136431.	3.9	78
18	Aerographite phonon density of states affects double resonant Raman scattering. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	4

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19	Non-zero spontaneous magnetic moment along crystalline <i>c</i> -axis for rare earth orthoferrites. Journal of Applied Physics, 2020, 127, .	1.1	9
20	Redshifting of the Fundamental Mode of DL-Alanine with Increasing Temperature. , 2020, , .		0
21	Low-Frequency Terahertz Raman Spectra of Graphite Flakes and Single-Walled Carbon Nanotube Aerogel. , 2020, , .		0
22	Thermal characteristic of dark resistivity of InGaAs photoconductive semiconductor switches. Journal of Materials Science: Materials in Electronics, 2019, 30, 15339-15344.	1.1	1
23	The Fundamental Terahertz Mode of L-Alanine: Strong Narrowing, More Symmetry and Small and Non-Uniform Shift as Temperature is Reduced. , 2019, , .		3
24	Effects of Ca substitution on quasiacoustic sliding modes in Sr <sub>14</sub> ~ <sup>x</sup> CaxCu <sub>24</sub> O <sub>41</sub> . Physical Review B, 2019, 100, .	1.1	1
25	Magnetic Interaction between Pr <sup>3+</sup> and Dy <sup>3+</sup> Spins and Their Spin Transition Induced by Magnetic Field in a Dy <sub>0.5</sub> Pr <sub>0.5</sub> FeO <sub>3</sub> Single Crystal. Journal of Physical Chemistry C, 2019, 123, 30584-30593.	1.5	12
26	Superficial and Fundamental Correspondences in the Terahertz/IR (6~15 THz) Absorption Spectra of Aspirin and Benzoic Acid. Journal of Physical Chemistry A, 2018, 122, 6886-6893.	1.1	6
27	Nanotechnology and its medical applications: revisiting public policies from a regulatory perspective in Australia. Nanotechnology Reviews, 2017, 6, 255-269.	2.6	8
28	Nanoscale analyses of the surface structure and composition of biochars extracted from field trials or after co-composting using advanced analytical electron microscopy. Geoderma, 2017, 294, 70-79.	2.3	84
29	Chemolithotrophic processes in the bacterial communities on the surface of mineral-enriched biochars. ISME Journal, 2017, 11, 1087-1101.	4.4	121
30	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.	3.9	36
31	Experimental and calculated THz spectra of analgesics. , 2017, , .		0
32	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.	1.2	4
33	Terahertz spectroscopic characterization for carbon-based materials. , 2016, , .		1
34	Terahertz Spectroscopy of Biochars and Related Aromatic Compounds. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 1158-1165.	1.2	3
35	Surface effects of vapour-liquid-solid driven Bi surface droplets formed during molecular-beam-epitaxy of GaAsBi. Scientific Reports, 2016, 6, 28860.	1.6	33
36	Mineral~Biochar Composites: Molecular Structure and Porosity. Environmental Science & Technology, 2016, 50, 7706-7714.	4.6	148

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37	Controlled delivery of drugs adsorbed onto porous Fe <sub>3</sub> O <sub>4</sub> structures by application of AC/DC magnetic fields. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 243-250.	2.2	27
38	THz spectroscopic characterization of biochar. , 2015, , .		0
39	Magnetic nanoparticles for "smart liposomes". <i>European Biophysics Journal</i> , 2015, 44, 647-654.	1.2	23
40	Terahertz (6-15 THz) Spectroscopy and Numerical Modeling of Intermolecular Vibrations in Benzoic Acid and Its Derivatives. <i>Applied Spectroscopy</i> , 2015, 69, 590-596.	1.2	10
41	Improvements in the Dispersion of Nanosilver in a MgB <sub>2</sub> Matrix through a Graphene Oxide Net. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10631-10640.	1.5	5
42	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.	2.1	96
43	Mechanism of periodic height variations along self-aligned VLS-grown planar nanostructures. <i>Nanoscale</i> , 2015, 7, 20442-20450.	2.8	6
44	Terahertz Spectroscopy of 2,4-Dinitrotoluene over a Wide Temperature Range (7-245 K). <i>Journal of Physical Chemistry A</i> , 2015, 119, 263-270.	1.1	23
45	Absorption spectra of benzoic acid in the 5-15 THz range. , 2014, , .		0
46	Complementary terahertz absorption and inelastic neutron study of the dynamic anisotropy contribution to zone-center spin waves in a canted antiferromagnet $NdFeO_3$ . <i>Physical Review B</i> , 2014, 90, .	1.1	22
47	Magnetization curves of sintered heavy tungsten alloys for applications in MRI-guided radiotherapy. <i>Medical Physics</i> , 2014, 41, 061707.	1.6	0
48	Interplay between boron precursors and Ni-Co-B nanoparticle doping in the fabrication of MgB <sub>2</sub> superconductor with improved electromagnetic properties. <i>Acta Materialia</i> , 2014, 80, 457-467.	3.8	7
49	Novel synthesis of superparamagnetic Ni-Co-B nanoparticles and their effect on superconductor properties of MgB <sub>2</sub> . <i>Acta Materialia</i> , 2014, 70, 298-306.	3.8	19
50	THz absorption bands in Sr <sub>14</sub> Cu <sub>24</sub> O <sub>41</sub> by synchrotron radiation. , 2014, , .		0
51	Collective librations of water molecules in the crystal lattice of rubidium bromide: experiment and simulation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20252.	1.3	14
52	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.	1.9	188
53	Enhancing superconducting properties of MgB <sub>2</sub> pellets by addition of amorphous magnetic Ni-Co-B nanoparticles. <i>Superconductor Science and Technology</i> , 2013, 26, 075013.	1.8	12
54	High temperature anisotropy of NdFeO <sub>3</sub> determined using time-domain THz spectroscopy. , 2013, , .		0

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55	Signature of aromatic carbons in the terahertz spectroscopy of bio-chars. , 2013, , .		1
56	Calorimetric AC loss measurement of MgB <sub>2</sub> superconducting tape in an alternating transport current and direct magnetic field. Superconductor Science and Technology, 2012, 25, 115016.	1.8	6
57	Magnetic and superconducting properties of spin-fluctuation-limited superconducting nanoscale VNx. Journal of Applied Physics, 2012, 111, .	1.1	0
58	Complementary techniques for probing terahertz magnetic excitations in Cu <sub>3</sub> Bi(SeO <sub>3</sub> ) <sub>2</sub> Cl <sub>2</sub> , 2012, , .		0
59	The Influence of CuFe <sub>2</sub> O <sub>4</sub> Nanoparticles on Superconductivity of MgB <sub>2</sub> . Physics Procedia, 2012, 36, 1498-1503.	1.2	11
60	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.	1.7	24
61	Flux dynamics in (Y,Nd) <sub>1</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> superconductors. EPJ Applied Physics, 2011, 53, 10801.	0.3	1
62	Transport critical current of MgB <sub>2</sub> wires: pulsed current of varying rate compared to direct current method. Superconductor Science and Technology, 2011, 24, 105009.	1.8	5
63	Flux pinning and inhomogeneity in magnetic nanoparticle doped MgB <sub>2</sub> /Fe wires. Journal of Physics: Conference Series, 2010, 234, 022027.	0.3	7
64	Temperature effect on microstructure and electromagnetic performance of polycarbosilane and sugar-doped MgB <sub>2</sub> wires. Journal of Physics: Conference Series, 2010, 234, 022033.	0.3	2
65	Highly Ordered Mesoporous Cobalt Oxide Nanostructures: Synthesis, Characterisation, Magnetic Properties, and Applications for Electrochemical Energy Devices. Chemistry - A European Journal, 2010, 16, 11020-11027.	1.7	136
66	Detection of biochar components for soil fertility using THz-TDS. , 2010, , .		3
67	Mechanisms of x-ray emission from peeling adhesive tape. Applied Physics Letters, 2010, 97, .	1.5	14
68	Synthesis of Mesoporous $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Nanostructures for Highly Sensitive Gas Sensors and High Capacity Anode Materials in Lithium Ion Batteries. Journal of Physical Chemistry C, 2010, 114, 18753-18761.	1.5	311
69	Peeling adhesive tape emits electromagnetic radiation at terahertz frequencies. Optics Letters, 2009, 34, 2195.	1.7	22
70	Hydrothermal Synthesis and Optical, Magnetic, and Supercapacitance Properties of Nanoporous Cobalt Oxide Nanorods. Journal of Physical Chemistry C, 2009, 113, 4357-4361.	1.5	374
71	Stress/Strain Induced Flux Pinning in Highly Dense $\text{MgB}_2$ Bulks. IEEE Transactions on Applied Superconductivity, 2009, 19, 2722-2725.	1.1	6
72	Flutelike Porous Hematite Nanorods and Branched Nanostructures: Synthesis, Characterisation and Application for Gas Sensing. Chemistry - A European Journal, 2008, 14, 5996-6002.	1.7	144

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73	Facile Synthesis and Characterization of Iron Oxide Semiconductor Nanowires for Gas Sensing Application. Journal of Physical Chemistry C, 2008, 112, 15220-15225.	1.5	143
74	Transport and magnetic critical current in superconducting MgB <sub>2</sub> wires. Superconductor Science and Technology, 2008, 21, 065003.	1.8	28
75	Excess Mg addition MgB <sub>2</sub> /Fe wires with enhanced critical current density. Journal of Applied Physics, 2008, 103, 083911.	1.1	16
76	Improvement of $J_c$ and $H_{c2}$ in MgB <sub>2</sub> superconductor with citric acid addition. Journal of Physics: Conference Series, 2008, 97, 012215.	0.3	1
77	Significant improvement in the critical current density of <i>in situ</i> MgB <sub>2</sub> by excess Mg addition. Superconductor Science and Technology, 2007, 20, L43-L47.	1.8	34
78	Effect of processing temperature on high field critical current density and upper critical field of nanocarbon doped MgB <sub>2</sub> . Applied Physics Letters, 2007, 90, 122502.	1.5	39
79	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.	1.1	16
80	Enhancement of critical current density and irreversibility field by nano-carbon substitution in MgB <sub>2</sub> . Physica C: Superconductivity and Its Applications, 2007, 460-462, 568-569.	0.6	11
81	Vortex dynamics in (Ti,Pb)(Sr,Ba) <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> single crystal. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1241-1242.	0.6	0
82	Improving flux pinning of MgB <sub>2</sub> by carbon nanotube doping and ultrasonication. Superconductor Science and Technology, 2006, 19, L5-L8.	1.8	71
83	Control of nano carbon substitution for enhancing the critical current density in MgB <sub>2</sub> . Superconductor Science and Technology, 2006, 19, 596-599.	1.8	122
84	Magnetic field processing to enhance critical current densities of MgB <sub>2</sub> superconductors. Applied Physics Letters, 2006, 89, 202504.	1.5	25
85	An alternative method for determination of the lock-in angle in twinned superconductors. Journal of Applied Physics, 2006, 99, 043904.	1.1	0
86	Structure and magnetism in the oxygen-deficient perovskites Ce <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3-<math>\delta</math></sub> ( $x \approx 0.90$ ). Materials Research Bulletin, 2005, 40, 1415-1431.	2.7	16
87	The effect of nanoscale Fe doping on the superconducting properties of MgB <sub>2</sub> . Superconductor Science and Technology, 2005, 18, 710-715.	1.8	61
88	The relevance of the self-field for the $\mu_0 J_c$ peak effect™ in the transport $J_c(H)$ of iron-sheathed MgB <sub>2</sub> wires. Superconductor Science and Technology, 2005, 18, 682-688.	1.8	10
89	Off-axis MgB <sub>2</sub> films using an <i>in situ</i> annealing pulsed laser deposition method. Superconductor Science and Technology, 2005, 18, 395-399.	1.8	15
90	Interaction between superconductor and ferromagnetic domains in iron sheath: Peak effect in MgB <sub>2</sub> •Fe wires. Applied Physics Letters, 2005, 87, 102503.	1.5	5

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91	Superconducting and Microstructural Properties of Two Types of $\text{MgB}_2$ Films Prepared by Pulsed Laser Deposition. IEEE Transactions on Applied Superconductivity, 2005, 15, 3261-3264.	1.1	10
92	High transport critical current density and large $H_{c2}$ and $H_{irr}$ nanoscale SiC doped $\text{MgB}_2$ wires sintered at low temperature. Superconductor Science and Technology, 2005, 18, 658-666.	1.8	97
93	Effect of Carbon Nanotube Size on Superconductivity Properties of $\text{MgB}_2$ . IEEE Transactions on Applied Superconductivity, 2005, 15, 3284-3287.	1.1	26
94	Effect of heating rates on superconducting properties of pure $\text{MgB}_2$ , carbon nanotube- and nano-SiC-doped in situ $\text{MgB}_2/\text{Fe}$ wires. Applied Physics Letters, 2005, 87, 182504.	1.5	31
95	Significant improvement of critical current density in coated $\text{MgB}_2/\text{Cu}$ short tapes through nano-SiC doping and short-time in situ reaction. Superconductor Science and Technology, 2004, 17, L21-L24.	1.8	28
96	Si addition in in situ annealed $\text{MgB}_2$ thin films by pulsed laser deposition. Superconductor Science and Technology, 2004, 17, 1247-1252.	1.8	8
97	Effects of precursor powders and sintering processes on the superconducting properties of $\text{MgB}_2$ . Superconductor Science and Technology, 2004, 17, S528-S532.	1.8	25
98	Superconducting screening on different length scales in high-quality bulk $\text{MgB}_2$ superconductor. Journal of Applied Physics, 2004, 96, 4342-4351.	1.1	31
99	Comparative study of in situ annealed $\text{MgB}_2$ films prepared by pulsed laser deposition. Superconductor Science and Technology, 2004, 17, S482-S485.	1.8	21
100	Strong pinning and high critical current density in carbon nanotube doped $\text{MgB}_2$ . Superconductor Science and Technology, 2004, 17, S572-S577.	1.8	46
101	Oxygen vacancy ordering and magnetism in the rare earth stabilised perovskite form of $\text{SrCoO}_3$ . Solid State Sciences, 2004, 6, 655-662.	1.5	37
102	Cu and nano-SiC doped $\text{MgB}_2$ thick films on Ni substrates processed using a very short-time in situ reaction. Physica C: Superconductivity and Its Applications, 2004, 402, 38-44.	0.6	19
103	Significant enhancement of critical current density and flux pinning in $\text{MgB}_2$ with nano-SiC, Si, and C doping. Physica C: Superconductivity and Its Applications, 2004, 408-410, 63-67.	0.6	76
104	Fabrication, microstructure and critical current density of pure and Cu doped $\text{MgB}_2$ thick films on Cu, Ni and stainless steel substrates by short-time in-situ reaction. Ceramics International, 2004, 30, 1603-1606.	2.3	11
105	Nano-sized $\text{Al}_2\text{O}_3$ doping effects on the critical current density of $\text{MgB}_2$ superconductors. Ceramics International, 2004, 30, 1581-1583.	2.3	14
106	Uranium Doping and Thermal Neutron Irradiation Flux Pinning Effects in $\text{MgB}_2$ . IEEE Transactions on Applied Superconductivity, 2004, 14, 33-39.	1.1	3
107	Effect of sample size on magnetic $J_c$ for $\text{MgB}_2$ superconductor. Applied Physics Letters, 2004, 84, 3109-3111.	1.5	29
108	Effect of Ti Doping on the Superconductivities of $\text{MgB}_2/\text{Fe}$ Wires. Journal of Low Temperature Physics, 2003, 131, 687-692.	0.6	4

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109	Effect of nano-carbon particle doping on the flux pinning properties of MgB <sub>2</sub> superconductor. Physica C: Superconductivity and Its Applications, 2003, 390, 185-190.	0.6	121
110	Zinc doping effects on the structure, transport and magnetic properties of La <sub>0.7</sub> Sr <sub>0.3</sub> Mn <sub>1-x</sub> Zn <sub>x</sub> O <sub>3</sub> manganite oxide. Science and Technology of Advanced Materials, 2003, 4, 149-152.	2.8	21
111	Magnetic hysteresis and relaxation in Bi2212 single crystals doped with Fe and Pb. IEEE Transactions on Applied Superconductivity, 2003, 13, 3770-3773.	1.1	0
112	A comparison of Ag and Ag-alloy sheathed Bi-2223 tapes. IEEE Transactions on Applied Superconductivity, 2003, 13, 3004-3007.	1.1	3
113	Superconductivity, critical current density, and flux pinning in MgB <sub>2</sub> (SiC) <sub>x/2</sub> superconductor after SiC nanoparticle doping. Journal of Applied Physics, 2003, 94, 1850-1856.	1.1	91
114	Transport critical current density in Fe-sheathed nano-SiC doped MgB <sub>2</sub> /wires. IEEE Transactions on Applied Superconductivity, 2003, 13, 3199-3202.	1.1	57
115	Superconducting Properties of MgB <sub>2</sub> Superconductor Doped with SiC Nanopowder. Journal of Metastable and Nanocrystalline Materials, 2003, 15-16, 679-684.	0.1	0
116	Effect of Sintering Temperature on Microstructure and Critical Current Density of Nanocrystalline MgB <sub>2</sub> Thick Films Prepared Using very Fast Formation Method. Journal of Metastable and Nanocrystalline Materials, 2003, 15-16, 349-354.	0.1	0
117	Effects of fission-fragment damage on vortex dimensionality in silver-sheathed Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> tapes. Physical Review B, 2003, 68, .	1.1	2
118	Intense vortex pinning enhanced by semicrystalline defect traps in self-aligned nanostructured MgB <sub>2</sub> . Applied Physics Letters, 2003, 83, 314-316.	1.5	23
119	Effect of carbon nanotube doping on critical current density of MgB <sub>2</sub> superconductor. Applied Physics Letters, 2003, 83, 4996-4998.	1.5	187
120	Magnetic shielding in MgB <sub>2</sub> /Fe superconducting wires. IEEE Transactions on Applied Superconductivity, 2003, 13, 3324-3327.	1.1	11
121	Effect of grain size and doping level of SiC on the superconductivity and critical current density in MgB <sub>2</sub> superconductor. IEEE Transactions on Applied Superconductivity, 2003, 13, 3273-3276.	1.1	21
122	Transport critical current of solenoidal MgB <sub>2</sub> /Cu coils fabricated using a wind-reaction in situ technique. Superconductor Science and Technology, 2003, 16, L4-L6.	1.8	35
123	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.	1.5	18
124	Improvement of critical current in MgB <sub>2</sub> /Fe superconducting wires by a ferromagnetic sheath. Applied Physics Letters, 2002, 80, 829-831.	1.5	72
125	Order-disorder transition in Bi <sub>2.1</sub> Sr <sub>1.9</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ single crystals doped with Fe and Pb. Physical Review B, 2002, 65, .	1.1	10
126	Effect of various mechanical deformation processes on critical current density and microstructure in MgB <sub>2</sub> tapes and wires. Superconductor Science and Technology, 2002, 15, 1490-1493.	1.8	9



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127	Effect of fission tracks on flux pinning and the resistive transition in neutron irradiated uranium-doped Ag/Bi2223 tapes. Superconductor Science and Technology, 2002, 15, 1596-1599.	1.8	2
128	The peak effect in Fe-doped Bi-2212 single crystals. Superconductor Science and Technology, 2002, 15, 356-360.	1.8	3
129	Enhancement of the critical current density and flux pinning of MgB2 superconductor by nanoparticle SiC doping. Applied Physics Letters, 2002, 81, 3419-3421.	1.5	770
130	Spin glass behaviour in ferromagnetic La2CoMnO6 perovskite manganite. Superconductor Science and Technology, 2002, 15, 427-430.	1.8	45
131	Study of structure, transport, paramagnetic and ferromagnetic properties of La0.8Sr0.2Mn1-xZnxO3 perovskite manganite. Superconductor Science and Technology, 2002, 15, 346-350.	1.8	17
132	Improvement of critical current density in the Cu/MgB2 and Ag/MgB2 superconducting wires using the fast formation method. Physica C: Superconductivity and Its Applications, 2002, 382, 187-193.	0.6	33
133	The effect of hydrogenation on the superconducting transition temperature of MgB2. Physica C: Superconductivity and Its Applications, 2002, 382, 213-216.	0.6	4
134	Structure and spin glass behaviour in non-metallic Yb2CoMnO6 perovskite manganite. Journal of Magnetism and Magnetic Materials, 2002, 246, 86-92.	1.0	17
135	The crystal structure and magnetic properties of the 1-dimensional dihalide-bridged polymers dichlorobis(thiazole)cobalt(II) and dibromobis(thiazole)-cobalt(II). Journal of Physics and Chemistry of Solids, 2002, 63, 657-663.	1.9	11
136	Effect of uranium doping and thermal neutron irradiation on the flux-pinning of silver-clad Bi-Sr-Ca-Cu-O tapes. IEEE Transactions on Applied Superconductivity, 2001, 11, 3896-3899.	1.1	5
137	Spin glass state in Gd2CoMnO6 perovskite manganite. Solid State Communications, 2001, 118, 27-30.	0.9	34
138	High-transport critical current density above 30 K in pure Fe-clad MgB2 tape. Physica C: Superconductivity and Its Applications, 2001, 361, 84-90.	0.6	176
139	Flux jumping and a bulk-to-granular transition in the magnetization of a compacted and sintered MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2001, 361, 79-83.	0.6	67
140	Effects of Cr doping on the structure, charge ordering, transport and spin ordering state in Nd0.5Sr0.5Mn1-xCrxCrO3. Physica C: Superconductivity and Its Applications, 2001, 364-365, 343-346.	0.6	6
141	Fast formation and superconductivity of MgB2 thick films grown on stainless steel substrate. Physica C: Superconductivity and Its Applications, 2001, 361, 73-78.	0.6	31
142	Very fast formation of superconducting MgB2/Fe wires with high Jc. Physica C: Superconductivity and Its Applications, 2001, 361, 149-155.	0.6	126
143	Grain connectivity and vortex pinning in high-temperature superconductors. , 2001, , 129-168.		0
144	Enhancement of vortex pinning by Josephson coupling of two-dimensional pancake vortices in heavy lead-doped Bi2-xPbxSr2CaCu2Oy. Superconductor Science and Technology, 2001, 14, 479-485.	1.8	8

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145	Scaling of the magnetic response and field dependence for the characteristic pinning energy in (Y, Tj) ETQq1 1 0.784314 rgB <sub>4</sub> /Overlook	1.8	14
146	Superconductivity and flux pinning in Y and heavily Pb codoped Bi-2212 single crystals. Journal of Applied Physics, 2001, 89, 7669-7671.	1.1	22
147	Effect of grain connectivity and density on the magnetoresistance in Ca or Li doped lanthanum manganites. Solid State Communications, 2000, 117, 53-56.	0.9	12
148	Enhanced flux pinning by Fe point defects in Bi <sub>2</sub> Sr <sub>2</sub> Ca(Cu <sub>1-x</sub> Fe <sub>x</sub> ) <sub>2</sub> O <sub>8</sub> + $\delta$ single crystals. Physica C: Superconductivity and Its Applications, 2000, 337, 221-224.	0.6	22
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