Marco Affronte

List of Publications by Year
in descending order

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206	7,885	53794	60623
papers	citations	45 h-index	81 g-index

212	212	212	5611
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular spins for quantum information technologies. Chemical Society Reviews, 2011, 40, 3119.	38.1	473
2	Engineering the coupling between molecular spin qubits by coordination chemistry. Nature Nanotechnology, 2009, 4, 173-178.	31.5	374
3	Graphene Spintronic Devices with Molecular Nanomagnets. Nano Letters, 2011, 11, 2634-2639.	9.1	371
4	Magnetothermal properties of molecule-based materials. Journal of Materials Chemistry, 2006, 16, 2534.	6.7	295
5	Molecular Engineering of Antiferromagnetic Rings for Quantum Computation. Physical Review Letters, 2005, 94, 207208.	7.8	291
6	Molecular nanomagnets for information technologies. Journal of Materials Chemistry, 2009, 19, 1731-1737.	6.7	198
7	A Ferromagnetic Mixed-Valent Mn Supertetrahedron: Towards Low-Temperature Magnetic Refrigeration with Molecular Clusters. Angewandte Chemie - International Edition, 2007, 46, 4456-4460.	13.8	184
8	Spin-enhanced magnetocaloric effect in molecular nanomagnets. Applied Physics Letters, 2005, 87, 072504.	3.3	166
9	1,2,3-Triazolate-Bridged Tetradecametallic Transition Metal Clusters [M14(L)6O6(OMe)18X6] (M = FeIII,) Tj ETQq1 1 0.784314 rgBT /O Spin-Enhanced Magnetocaloric Effect. Inorganic Chemistry, 2007, 46, 4968-4978.	4.0	146
10	Evidence for enhancement of critical current by intergrain Ag in YBaCuOâ€Ag ceramics. Applied Physics Letters, 1989, 55, 399-401.	3.3	143
11	A ring cycle: studies of heterometallic wheels. Chemical Communications, 2007, , 1789.	4.1	131
12	Microscopic spin Hamiltonian of aCr8antiferromagnetic ring from inelastic neutron scattering. Physical Review B, 2003, 67, .	3.2	124
13	From antiferromagnetism to superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow><mml:mr Physical Review B, 2010, 81, .	3.2	118
14	Proposal for Quantum Gates in Permanently Coupled Antiferromagnetic Spin Rings without Need of Local Fields. Physical Review Letters, 2005, 94, 190501.	7.8	115
15	Effects of Al doping on the normal and superconducting properties ofMgB2:A specific heat study. Physical Review B, 2003, 68, .	3.2	105
16	Single molecule magnets for quantum computation. Journal Physics D: Applied Physics, 2007, 40, 2999-3004.	2.8	102
17	Entanglement in Supramolecular Spin Systems of Two Weakly Coupled Antiferromagnetic Rings (Purple-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi) Tj ETQq1 1 0.784314 rgBT /Over Physical Review Letters, 2010, 104, 037203.	7.8	99
18	Superconducting high pressureCaSi2phase withTcup to 14 K. Physical Review B, 2000, 61, R3800-R3803.	3.2	90

#	Article	IF	Citations
19	Observation of the Crossover from Two-Gap to Single-Gap Superconductivity through Specific Heat Measurements in Neutron-IrradiatedMgB2. Physical Review Letters, 2006, 96, 077003.	7.8	90
20	Surface-Enhanced Raman Signal for Terbium Single-Molecule Magnets Grafted on Graphene. ACS Nano, 2010, 4, 7531-7537.	14.6	90
21	High spin cycles: topping the spin record for a single molecule verging on quantum criticality. Npj Quantum Materials, 2018, 3, .	5.2	86
22	Engineering molecular rings for magnetocaloric effect. Applied Physics Letters, 2004, 84, 3468-3470.	3.3	80
23	Linking Rings through Diamines and Clusters: Exploring Synthetic Methods for Making Magnetic Quantum Gates. Angewandte Chemie - International Edition, 2005, 44, 6496-6500.	13.8	80
24	Magnetocaloric effect in spin-degenerated molecular nanomagnets. Physical Review B, 2009, 79, .	3.2	79
25	Electronic properties and critical current densities of superconducting (Y1Ba2Cu3O6.9)1â^'xAgx compounds. Solid State Communications, 1988, 68, 535-538.	1.9	72
26	Singleâ€Molecule Magnetism, Enhanced Magnetocaloric Effect, and Toroidal Magnetic Moments in a Family of Ln₄ Squares. Chemistry - A European Journal, 2015, 21, 15639-15650.	3.3	72
27	Magnetic anisotropy ofFe6andFe10molecular rings by cantilever torque magnetometry in high magnetic fields. Physical Review B, 1999, 60, 12177-12183.	3.2	71
28	Tuning of Magnetic Anisotropy in Hexairon(III) Rings by Host-Guest Interactions: An Investigation by High-Field Torque Magnetometry. Angewandte Chemie - International Edition, 1999, 38, 2264-2266.	13.8	70
29	Dodecanuclear [Cu^{II}₆Gd^{III}₆] Nanoclusters as Magnetic Refrigerants. Inorganic Chemistry, 2012, 51, 3935-3937.	4.0	69
30	Spin triangles as optimal units for molecule-based quantum gates. Physical Review B, 2007, 76, .	3.2	67
31	Molecular routes for spin cluster qubits. Dalton Transactions, 2006, , 2810.	3.3	66
32	Structural phase transitions inCaSi2under high pressure. Physical Review B, 2000, 62, 11392-11397.	3.2	62
33	Topology and spin dynamics in magnetic molecules. Physical Review B, 2005, 72, .	3.2	61
34	Upper critical field ofBa1â^'xKxBiO3single crystals. Physical Review B, 1994, 49, 3502-3510.	3.2	58
35	Observation of Magnetic Level Repulsion in Fe6:Li Molecular Antiferromagnetic Rings. Physical Review Letters, 2002, 88, 167201.	7.8	56
36	Structural and electronic transport properties of ReSi2â^'Î´single crystals. Journal of Applied Physics, 1995, 78, 3902-3907.	2.5	55

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37	High-Temperature Slow Relaxation of the Magnetization inNi10Magnetic Molecules. Physical Review Letters, 2006, 97, 207201.	7.8	54
38	Magnetocaloric effect in hexacyanochromate Prussian blue analogs. Physical Review B, 2006, 73, .	3.2	53
39	Magnetic structure of the high-density single-valent<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>e</mml:mi><mml:mi>g</mml:mi></mml:msub></mml:mrow></mml:math>Jahn-Teller system<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LaMn</mml:mtext></mml:mrow><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>O12. Physical Review B, 2009, 79, .	3.2	52
40	Mixing of magnetic states in aCr8molecular ring. Physical Review B, 2003, 68, .	3.2	50
41	Supertetrahedral and Biâ€supertetrahedral Cages: Synthesis, Structures, and Magnetic Properties of Decaâ€•and Enneadecametallic Cobalt(II) Clusters. Angewandte Chemie - International Edition, 2008, 47, 9695-9699.	13.8	50
42	Low temperature properties of calcium mono- and disilicides. Journal of Alloys and Compounds, 1998, 274, 68-73.	5.5	49
43	Successful grafting of isolated molecular<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Cr</mml:mtext></mml:mrow><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>clusters on Au(111) surface. Physical Review B, 2009, 79, .	3.2	49
44	Single-molecule devices with graphene electrodes. Dalton Transactions, 2016, 45, 16570-16574.	3.3	47
45	Thermal properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SmFeAsO</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>: a probe of the interplay between electrons and phonons. Physical Review B, 2008, 78, .	3.2	46
46	Oxygen in-diffusion processes in tetragonalYBa2Cu3O7â^’xoxide. Physical Review B, 1989, 39, 9069-9073.	3.2	45
47	Magnetic ordering in a high-spinFe19molecular nanomagnet. Physical Review B, 2002, 66, .	3.2	45
48	YBa2Cu3O7 microwave resonators for strong collective coupling with spin ensembles. Applied Physics Letters, 2015, 106, .	3.3	45
49	High Photoresponsivity in Graphene Nanoribbon Field-Effect Transistor Devices Contacted with Graphene Electrodes. Journal of Physical Chemistry C, 2017, 121, 10620-10625.	3.1	45
50	Two-Step Magnetic Ordering in Quasi-One-Dimensional Helimagnets: Possible Experimental Validation of Villainâ€™s Conjecture about a Chiral Spin Liquid Phase. Physical Review Letters, 2008, 100, 057203.	7.8	42
51	Self-Assembled Monolayer of Cr₇Ni Molecular Nanomagnets by Sublimation. ACS Nano, 2011, 5, 7090-7099.	14.6	42
52	Observation of different charge transport regimes and large magnetoresistance in graphene oxide layers. Carbon, 2015, 89, 188-196.	10.3	42
53	Coherent coupling between Vanadyl Phthalocyanine spin ensemble and microwave photons: towards integration of molecular spin qubits into quantum circuits. Scientific Reports, 2017, 7, 13096.	3.3	42
54	Propagation of Spin Information at the Supramolecular Scale through Heteroaromatic Linkers. Physical Review Letters, 2011, 106, 227205.	7.8	41

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55	Coherently coupling distinct spin ensembles through a high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:ma resonator. Physical Review A, 2016, 93, .	2.8	39
56	Effects of Cu substitution by Zn on transport properties of Y1Ba2Cu3O7-Î´. Solid State Communications, 1989, 70, 951-954.	1.9	38
57	Tunable Dipolar Magnetism in High-Spin Molecular Clusters. Physical Review Letters, 2006, 97, 167202.	7.8	38
58	Electronic properties of superconducting (YBa2Cu3O6.9)1âˆ’xAgx compounds. Physica C: Superconductivity and Its Applications, 1988, 153-155, 1339-1340.	1.2	37
59	Low-temperature specific heat ofFe6andFe10molecular magnets. Physical Review B, 1999, 60, 1161-1166.	3.2	36
60	Isolated Heterometallic Cr7Ni Rings Grafted on Au(111) Surface. Inorganic Chemistry, 2007, 46, 4937-4943.	4.0	36
61	Focused Electron Beam Deposition of Nanowires from Cobalt Tricarbonyl Nitrosyl (Co(CO)₃NO) Precursor. Journal of Physical Chemistry C, 2011, 115, 19606-19611.	3.1	36
62	Antiferromagnetic coupling of TbPc2 molecules to ultrathin Ni and Co films. Beilstein Journal of Nanotechnology, 2013, 4, 320-324.	2.8	36
63	Ferromagnetic Exchange Coupling between Fe Phthalocyanine and Ni(111) Surface Mediated by the Extended States of Graphene. Journal of Physical Chemistry C, 2014, 118, 17670-17676.	3.1	36
64	Octanuclear [Ni^{II}₄Ln^{III}₄] complexes. Synthesis, crystal structures and magnetocaloric properties. Dalton Transactions, 2014, 43, 9136-9142.	3.3	36
65	Molecular Spins in the Context of Quantum Technologies. Magnetochemistry, 2017, 3, 12.	2.4	36
66	Neutron spectroscopy within theS=5ground multiplet and low-temperature heat capacity in anFe4magnetic cluster. Physical Review B, 2001, 64, .	3.2	35
67	Synthesis and magnetothermal properties of a ferromagnetically coupled NiIIâ€“GdIIIâ€“NiIIcluster. Dalton Transactions, 2014, 43, 259-266.	3.3	34
68	Magnetic interplay between two different lanthanides in a tris-phthalocyaninato complex: a viable synthetic route and detailed investigation in the bulk and on the surface. Journal of Materials Chemistry C, 2015, 3, 9794-9801.	5.5	34
69	Low-temperature thermodynamic properties of molecular magnetic chains. Physical Review B, 1999, 59, 6282-6293.	3.2	33
70	Magnetic Cooling at a Single Molecule Level: a Spectroscopic Investigation of Isolated Molecules on a Surface. Advanced Materials, 2013, 25, 2816-2820.	21.0	32
71	Magnetic anisotropy of Mn12-acetate nanomagnets from high-field torque magnetometry. Chemical Physics Letters, 2000, 322, 477-482.	2.6	31
72	Deposition of Functionalized Cr₇Ni Molecular Rings on Graphite from the Liquid Phase. Advanced Functional Materials, 2010, 20, 1552-1560.	14.9	31

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73	Valence tautomerism interconversion triggers transition to stable charge distribution in solid polymeric cobaltâ€“polyoxolene complexes. Dalton Transactions, 2007, , 5253.	3.3	30
74	Spin-communication channels between Ln(III) bis-phthalocyanines molecular nanomagnets and a magnetic substrate. Scientific Reports, 2016, 6, 21740.	3.3	30
75	Coupling molecular spin centers to microwave planar resonators: towards integration of molecular qubits in quantum circuits. Dalton Transactions, 2016, 45, 16596-16603.	3.3	29
76	Radical-lanthanide ferromagnetic interaction in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">T</mml:mi><mml:msup><mml:mrow><mml:mi mathvariant="normal">b</mml:mi></mml:mrow><mml:mi>III</mml:mi></mml:msup></mml:mrow></mml:math> bis-phthalocyaninato complex. Physical Review Materials, 2018, 2, .	2.4	29
77	Effects of antisymmetric interactions in molecular iron rings. European Physical Journal B, 2002, 30, 461-468.	1.5	28
78	Spin entanglement in supramolecular structures. Nanotechnology, 2010, 21, 274009.	2.6	28
79	Grafting molecular Cr7Ni rings on a gold surface. Dalton Transactions, 2010, 39, 4928.	3.3	28
80	Magnetic Anisotropy of Cr₇Ni Spin Clusters on Surfaces. Advanced Functional Materials, 2012, 22, 3706-3713.	14.9	28
81	Percolation and electronic properties of superconducting (YBa2Cu3O7??)1?x Ag x ceramics and thick films. Journal of Superconductivity and Novel Magnetism, 1989, 2, 419-426.	0.5	27
82	Role of charge doping and lattice distortions in codopedMg1â^'x(AlLi)xB2compounds. Physical Review B, 2006, 73, .	3.2	27
83	Vacancy-driven magnetocaloric effect in Prussian blue analogues. Journal of Magnetism and Magnetic Materials, 2007, 316, e569-e571.	2.3	27
84	Decoherence induced by hyperfine interactions with nuclear spins in antiferromagnetic molecular rings. Physical Review B, 2008, 77, .	3.2	27
85	Chemical Control of Spin Propagation between Heterometallic Rings. Chemistry - A European Journal, 2011, 17, 14020-14030.	3.3	27
86	Low temperature specific heat of molecular rings: a study on the effects of the internal guest substitution and on the lattice contribution. European Physical Journal B, 2000, 15, 633-639.	1.5	26
87	Molecular nanoclusters as magnetic refrigerants: The case of Fe14 with very large spin ground-state. Polyhedron, 2005, 24, 2573-2578.	2.2	26
88	Ab initiostudy on a chain model of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Cr</mml:mtext></mml:mrow><mml:mn>8</mml:mn></mml:msub> magnet. Physical Review B, 2008, 77, .	3.2	26
89	Characterization of a new cobalt precursor for focused beam deposition of magnetic nanostructures. Microelectronic Engineering, 2011, 88, 1955-1958.	2.4	26
90	A Detailed Study of the Magnetism of Chiral {Cr₇M} Rings: An Investigation into Parametrization and Transferability of Parameters. Journal of the American Chemical Society, 2014, 136, 9763-9772.	13.7	26

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91	Relay-Like Exchange Mechanism through a Spin Radical between TbPc₂ Molecules and Graphene/Ni(111) Substrates. ACS Nano, 2016, 10, 9353-9360.	14.6	26
92	Storage and retrieval of microwave pulses with molecular spin ensembles. Npj Quantum Information, 2020, 6, .	6.7	26
93	Probing magnetic coupling between LnPc₂ (Ln = Tb, Er) molecules and the graphene/Ni (111) substrate with and without Au-intercalation: role of the dipolar field. Nanoscale, 2018, 10, 277-283.	5.6	25
94	Hall-effect studies inYBa2Cu3O7/PrBa2Cu3O7superlattices. Physical Review B, 1991, 43, 11484-11487.	3.2	24
95	Hall nano-probes fabricated by focused ion beam. Nanotechnology, 2006, 17, 2105-2109.	2.6	24
96	A Density-Functional Study of Heterometallic Cr-Based Molecular Rings. Journal of Physical Chemistry B, 2010, 114, 14797-14806.	2.6	24
97	Low temperature magnetic properties and spin dynamics in single crystals of Cr8Zn antiferromagnetic molecular rings. Journal of Chemical Physics, 2015, 143, 244321.	3.0	23
98	Coherent Spin Dynamics in Molecular Cr₈Zn Wheels. Journal of Physical Chemistry Letters, 2015, 6, 5062-5066.	4.6	23
99	Elementary excitations in antiferromagnetic Heisenberg spin segments. Physical Review B, 2007, 76, .	3.2	22
100	Comparison of Hall effect near Tc in YBCO 123 single crystal and 124 ceramics. Physica C: Superconductivity and Its Applications, 1990, 172, 131-137.	1.2	20
101	Transport properties of Ba1â^'xKxBiO3 single crystals. Solid State Communications, 1993, 85, 501-506.	1.9	20
102	Fabrication of three terminal devices by ElectroSpray deposition of graphene nanoribbons. Carbon, 2016, 104, 112-118.	10.3	20
103	Upper critical field of Ba1â^'Ï‡KÏ‡BiO3 single crystal. Physica C: Superconductivity and Its Applications, 1993, 210, 133-137.	1.2	19
104	X-ray magnetic circular dichroism investigation of spin and orbital moments inCr8andCr7Niantiferromagnetic rings. Physical Review B, 2008, 77, .	3.2	19
105	Electroburning of few-layer graphene flakes, epitaxial graphene, and turbostratic graphene discs in air and under vacuum. Beilstein Journal of Nanotechnology, 2015, 6, 711-719.	2.8	19
106	Probing edge magnetization in antiferromagnetic spin segments. Physical Review B, 2009, 79, .	3.2	18
107	Controlling magnetic communication through aromatic bridges by variation in torsion angle. Dalton Transactions, 2012, 41, 13626.	3.3	18
108	Specific heat andÎ¼+SRmeasurements inGd(hfac)3NITiPrmolecular magnetic chains: Indications for a chiral phase without long-range helical order. Physical Review B, 2003, 67, .	3.2	17

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109	Magnetic and electronic properties of Mn4Si7. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 519-520.	2.3	17
110	Hysteresis loops of magnetoconductance in graphene devices. Physical Review B, 2011, 83, .	3.2	17
111	Field-regulated switching of the magnetization of Co-porphyrin on graphene. Physical Review B, 2014, 89, .	3.2	17
112	Coherent coupling of molecular spins with microwave photons in planar superconducting resonators. Advances in Physics: X, 2018, 3, 1435305.	4.1	17
113	Multiscale Charge Transport in van der Waals Thin Films: Reduced Graphene Oxide as a Case Study. ACS Nano, 2021, 15, 2654-2667.	14.6	17
114	Crystal growth and physical properties of Nd2â^'xCexCuO4â^'y single crystals. Journal of the Less Common Metals, 1990, 164-165, 824-831.	0.8	16
115	Probing local magnetization in molecular heterometallic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Cr</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>Physical Review B, 2010, 82, .	3.2	15
116	Some properties of the phonon spectra of transition metal disilicides VSi2, NbSi2, and TaSi2. Solid State Communications, 2003, 126, 415-419.	1.9	14
117	Magnetic Imaging of Cyanideâ€Bridged Coâ€ordination Nanoparticles Grafted on FIBâ€Patterned Si Substrates. Small, 2008, 4, 2240-2246.	10.0	14
118	From single-molecule magnetism to long-range ferromagnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Hpyr</mml:mtext><mml:mrow><mml:mo>[</mml:mo><mml:mrow><mml:msub><mml:mro</mml:mrow></mml:math>Physical Review B, 2008, 77, .	3.2	14
119	Magnetic properties and relaxation dynamics of a frustrated Ni₇molecular nanomagnet. Journal of Physics Condensed Matter, 2012, 24, 104006.	1.8	14
120	Microstrip Resonators and Broadband Lines for X-band EPR Spectroscopy of Molecular Nanomagnets. Applied Magnetic Resonance, 2015, 46, 749-756.	1.2	14
121	Effects of intercluster coupling in high spin molecular magnets. Journal of Physics and Chemistry of Solids, 2004, 65, 745-748.	4.0	13
122	Neutron irradiation effects on two gaps in MgB2. Physica C: Superconductivity and Its Applications, 2007, 456, 144-152.	1.2	13
123	Specific heat investigation in high magnetic field of the magnetic ordering of the rare-earth lattice in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>R</mml:mi><mml:mtext>FeAsO</mml:mtext></mml:mrow></mml:math>: The case of Sm. Physical Review B, 2009, 80, .	3.2	13
124	Controlled Positioning of Nanoparticles on Graphene by Noninvasive AFM Lithography. Langmuir, 2012, 28, 12400-12409.	3.5	13
125	Critical current and electronic properties of YBCO-Ag compounds. Physica C: Superconductivity and Its Applications, 1989, 162-164, 351-352.	1.2	12
126	Electronic properties ofTiSi2single crystals at low temperatures. Physical Review B, 1996, 54, 7799-7806.	3.2	12

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127	Oxo-centered carboxylate-bridged trinuclear complexes deposited on Au(111) by a mass-selective electrospray. New Journal of Chemistry, 2011, 35, 1683.	2.8	12
128	Studies of hybrid organicâ€“inorganic [2] and [3]rotaxanes bound to Au surfaces. Chemical Communications, 2013, 49, 3404.	4.1	12
129	Superconductivity in artificially grown copper-oxide superlattices. Physica B: Condensed Matter, 1991, 169, 116-120.	2.7	11
130	Magnetic and entanglement properties of molecular Cr2nCu2heterometallic spin rings. Physical Review B, 2012, 86, .	3.2	11
131	Out- and in-diffusion of oxygen in YBa2Cu3O7 âˆ’ x oxide. Journal of the Less Common Metals, 1989, 150, 177-183.	0.8	10
132	The preparation of YBCO thin films by a four ion beam co-deposition system. Journal of the Less Common Metals, 1989, 151, 419-427.	0.8	10
133	Some physical properties of ReSi1.75 single crystals. Applied Surface Science, 1995, 91, 82-86.	6.1	10
134	Magnetoresistance of RuO2-Based Thick Film Resistors. Journal of Low Temperature Physics, 1998, 112, 355-371.	1.4	10
135	Thin films of sodium-doped lanthanum manganites: role of substrate and thickness on the magnetoresistive response. Solid State Ionics, 2004, 172, 265-269.	2.7	10
136	Towards quantum sensing with molecular spins. Journal of Magnetism and Magnetic Materials, 2019, 491, 165534.	2.3	10
137	Color Sensitive Response of Graphene/Graphene Quantum Dot Phototransistors. Journal of Physical Chemistry C, 2019, 123, 26490-26497.	3.1	10
138	Microwave Photon Detectors Based on Semiconducting Double Quantum Dots. Sensors, 2020, 20, 4010.	3.8	10
139	Tetrairon(<scp>ii</scp>) extended metal atom chains as single-molecule magnets. Dalton Transactions, 2021, 50, 7571-7589.	3.3	10
140	Evidence for a helical and a chiral phase transition in the magnetic specific heat. Journal of Magnetism and Magnetic Materials, 2007, 310, 1460-1461.	2.3	9
141	Quantum Computation with Molecular Nanomagnets: Achievements, Challenges, and New Trends. Structure and Bonding, 2014, , 383-430.	1.0	9
142	Microwave-assisted reversal of a single electron spin. Journal of Applied Physics, 2019, 125, 142801.	2.5	9
143	New superconducting CaSi2 phase with Tc up to 14 K under pressure. Physica B: Condensed Matter, 2000, 284-288, 1117-1118.	2.7	8
144	Chiral and helical phase transitions in quasi-1D molecular magnets. Polyhedron, 2005, 24, 2568-2572.	2.2	8

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145	AF molecular rings for quantum computation. Polyhedron, 2005, 24, 2562-2567.	2.2	8
146	Molecular spin clusters for quantum computation. Journal of Magnetism and Magnetic Materials, 2007, 310, e501-e502.	2.3	8
147	Experimental validation of Villain's conjecture about magnetic ordering in quasi-1D helimagnets. Journal of Magnetism and Magnetic Materials, 2010, 322, 1259-1261.	2.3	8
148	Heterodimers of heterometallic rings. Dalton Transactions, 2016, 45, 16610-16615.	3.3	8
149	Microwave dual-mode resonators for coherent spin-photon coupling. Journal of Applied Physics, 2018, 124, .	2.5	8
150	Superconducting energy gap in Ba1â^'xKxBiO3: Temperature dependence. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1873-1874.	1.2	6
151	High-field torque magnetometry for investigating magnetic anisotropy in Mn12-acetate nanomagnets. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 2012-2014.	2.3	6
152	Low-temperature specific heat of anFe12molecular cluster. Physical Review B, 2002, 66, .	3.2	6
153	Inhomogeneous magnetism in the doped kagome lattice of LaCuO2.66. Physical Review B, 2013, 87, .	3.2	6
154	Surface Investigation on Gd₄M₈ (M = Zn, Ni) Single Molecule Coolers. Advanced Functional Materials, 2014, 24, 4782-4788.	14.9	6
155	CoTPP molecules deposited on graphene/Ni (111): Quenching of the antiferromagnetic interaction induced by gold intercalation. Journal of Applied Physics, 2019, 125, .	2.5	6
156	Microwave-Assisted Tunneling in Hard-Wall InAs/InP Nanowire Quantum Dots. Scientific Reports, 2019, 9, 19523.	3.3	6
157	Low temperature electronic transport in RuO2-based cermet resistors. Journal of Low Temperature Physics, 1997, 109, 461-475.	1.4	6
158	Zn doping of YBCO and Hall effect study in Y 1 Ba 2 (Cu 1â^'x Zn x) 3 O 7â^'Î´. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1007-1008.	1.2	5
159	Low-temperature specific heat of Li : Fe6 molecular magnets. Physica B: Condensed Matter, 2000, 284-288, 1233-1234.	2.7	5
160	Unusual e g 3d x 2â^'y 2 Orbital Ordering and Low-Energy Excitations in the CE Structure of NaMn7O12. Journal of Superconductivity and Novel Magnetism, 2005, 18, 675-680.	0.5	5
161	Magnetic behaviour of trioctahedral mica-2M1 occurring in a magnetic anomaly zone. Mineralogical Magazine, 2008, 72, 1035-1042.	1.4	5
162	Investigation of Li-doped MgB₂. Superconductor Science and Technology, 2009, 22, 095014.	3.5	5

#	Article	IF	Citations
163	Magnetic behavior of trioctahedral micas with different octahedral Fe ordering. Physics and Chemistry of Minerals, 2012, 39, 665-674.	0.8	5
164	Potentialities of Molecular Nanomagnets for Information Technologies. Nanoscience and Technology, 2014, , 249-273.	1.5	5
165	From superconducting to normal density of states of Ba1â^'xKxBiO3 by tunneling in high magnetic fields. Physica B: Condensed Matter, 1994, 194-196, 1747-1748.	2.7	4
166	Role of charge doping and lattice distortions in codoped Mg1â^'x(AlLi)xB2 compounds. Physica C: Superconductivity and Its Applications, 2007, 460-462, 598-599.	1.2	4
167	Spin entanglement in supramolecular systems. Journal of Physics: Conference Series, 2011, 303, 012033.	0.4	4
168	DFT Study of the Cr$$_8$$ Molecular Magnet Within Chain-Model Approximations. Lecture Notes in Computer Science, 2014, , 428-437.	1.3	4
169	Transmission Spectroscopy of Molecular Spin Ensembles in the Dispersive Regime. Advanced Quantum Technologies, 2021, 4, 2100039.	3.9	4
170	Superconducting Yba₂Cu₃O₇₋_{Î´} Thin Films on Srtio₃ and Si Grown In-Situ by Ion Beam Sputtering. Materials Research Society Symposia Proceedings, 1989, 169, 639.	0.1	3
171	Hall effect in Y2Ba4Cu7Ox ceramics with 14.115.1. Physical Review B, 1992, 45, 8189-8192.	3.2	3
172	A Raman study of superconducting crystals of Ba1â^'xKxBiO3. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2523-2524.	1.2	3
173	Indication for a chiral phase in the molecular magnetic chain Gd(hfac)3NiTiPr by specific heat and Î¼+SR measurements. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1052-1053.	2.3	3
174	Lattice effects in the ferromagnetic insulating phase of manganites. Physical Review B, 2005, 72, .	3.2	3
175	Focused ion beam patterned Hall nano-sensors. Journal of Magnetism and Magnetic Materials, 2007, 310, 2752-2754.	2.3	3
176	Trioctahedral Fe-rich micas: Relationships between magnetic behavior and crystal chemistry. American Mineralogist, 2015, 100, 2231-2241.	1.9	3
177	Ion beam sputtering and properties of YBaCuO superconducting thin films. Physica C: Superconductivity and Its Applications, 1988, 153-155, 1449-1450.	1.2	2
178	Optimization of large area YBa2Cu3O7â^'x films by single target ion beam sputtering. Physica C: Superconductivity and Its Applications, 1991, 185-189, 2563-2564.	1.2	2
179	Hall effect in YBCO â€œ247â€•ceramics. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1289-1290.	1.2	2
180	Crystal growth and physical properties of Zn doped YBCO crystals. Physica C: Superconductivity and Its Applications, 1991, 185-189, 453-454.	1.2	2

#	Article	IF	Citations
181	High-pressure studies on superconducting Ba1â^'xKxBiO3 single crystal. Physica B: Condensed Matter, 1994, 194-196, 1481-1482.	2.7	2
182	High-temperature relaxation processes in Zn and Fe doped tetragonal YBCO. Physica C: Superconductivity and Its Applications, 1994, 234, 91-98.	1.2	2
183	Resistivity measurements in superconducting Ba1â^'xKxBiO3. Physica C: Superconductivity and Its Applications, 1996, 261, 147-152.	1.2	2
184	High-temperature resistance of theYBa2Cu3O6+xtetragonal phase. Physical Review B, 1996, 54, 6763-6769.	3.2	2
185	Level crossing in a molecular Cr8 ring. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1050-1051.	2.3	2
186	Magnetic field sensitivity of In0.75Ga0.25As Hall nanoprobes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 147, 148-151.	3.5	2
187	Comparison among superconducting models for Î²â€³-ET4[(H3O)Fe(C2O4)3]Â·C6H5Br single crystals by scanning tunnelling spectroscopy. Solid State Sciences, 2008, 10, 1773-1776.	3.2	2
188	Slow magnetic dynamics in the Ni10 family of compounds. Solid State Sciences, 2009, 11, 778-785.	3.2	2
189	Scanning tunnelling spectroscopy study of paramagnetic superconducting Î²â€²â€²-ET4[(H3O)Fe(C2O4)3]Â·C6H5Br crystals. Journal of Physics Condensed Matter, 2010, 22, 175701.	1.8	2
190	Coupling Nanostructured CsNiCr Prussian Blue Analogue to Resonant Microwave Fields. Advanced Quantum Technologies, 2020, 3, 1900101.	3.9	2
191	Window-type tunnel devices on YBa2Cu3O7-xthin films. Superconductor Science and Technology, 1991, 4, S136-S138.	3.5	1
192	Electrical properties of BaKBiO3 crystals near Tc. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1477-1478.	1.2	1
193	Angular dependence of the magnetoresistance of TiSi2 single crystals. Applied Surface Science, 1995, 91, 98-102.	6.1	1
194	Observation of the gap merging in neutron irradiated MgB2. Physica C: Superconductivity and Its Applications, 2007, 460-462, 560-561.	1.2	1
195	On Transport Properties of HTSC Oxides. , 1991, , 231-234.		1
196	Ion beam codeposition of HTSC films on SrTiO3 and ITO/Si. , 1990, 1287, 166.		0
197	Hc2 temperature dependence of Ba1â^'xKxBiO3 single crystals. Physica B: Condensed Matter, 1994, 194-196, 1813-1814.	2.7	0
198	Ordering process in tetragonal YBCO doped with Fe and Zn. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1329-1330.	1.2	0

#	Article	IF	Citations
199	Thermal properties of MgB2: the effect of disorder on gap amplitudes and relaxation times of Ï€ and Ïƒ bands. Physica C: Superconductivity and Its Applications, 2004, 408-410, 95-96.	1.2	0
200	Inter-cluster coupling effects in high-spin molecular magnets. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E763-E764.	2.3	0
201	Publisher's Note: Specific heat investigation in high magnetic field of the magnetic ordering of the rare-earth lattice inRFeAsO: The case of Sm [Phys. Rev. B80, 214404 (2009)]. Physical Review B, 2009, 80, .	3.2	0
202	Membrane-based microcalorimetry for thin films and sub-milligram single-crystal. Journal of Physics: Conference Series, 2009, 187, 012034.	0.4	0
203	Critical Current and Electronic Properties of YBaCuO-Ag Compounds. , 1990, , 457-466.		0
204	Ion beam codeposition of HTSC films on SrTiO3 and ITO/Si. , 1990, , .		0
205	Artificially Grown Superlattices of Cuprates. NATO ASI Series Series B: Physics, 1991, , 415-430.	0.2	0
206	Addressing aï»¿ Single Molecular Spinï»¿ with Graphene-Based Nanoarchitectures. Advances in Atom and Single Molecule Machines, 2017, , 165-184.	0.0	0