

Igor I Mazin

List of Publications by Year in descending order

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270
papers

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9756

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279
all docs

279
docs citations

279
times ranked

12271
citing authors

#	ARTICLE	IF	CITATIONS
1	Unconventional Superconductivity with a Sign Reversal in the Order Parameter of LaFeAsO . Physical Review Letters, 2008, 101, 057003.	2.9	1,271
2	Superconductivity of Metallic Boron in MgB_2 . Physical Review Letters, 2001, 86, 4656-4659.	2.9	1,153
3	Gap symmetry and structure of Fe-based superconductors. Reports on Progress in Physics, 2011, 74, 124508.	8.1	1,001
4	Beyond Eliashberg Superconductivity in MgB_2 : Anharmonicity, Two-Phonon Scattering, and Multiple Gaps. Physical Review Letters, 2001, 87, 087005.	2.9	957
5	Spin Waves and Revised Crystal Structure of Honeycomb Iridate LiFeO_2 . Physical Review Letters, 2012, 108, 127204.	2.9	502
6	Fermi surface nesting and the origin of charge density waves in metals. Physical Review B, 2008, 77, .	1.1	478
7	Superconductivity gets an iron boost. Nature, 2010, 464, 183-186.	13.7	398
8	How to Define and Calculate the Degree of Spin Polarization in Ferromagnets. Physical Review Letters, 1999, 83, 1427-1430.	2.9	389
9	Monoclinic crystal structure of LiFeO_2 and the zigzag antiferromagnetic ground state. Physical Review B, 2015, 92, .	1.1	316
10	Electronic structure and magnetism in Ru-based perovskites. Physical Review B, 1997, 56, 2556-2571.	1.1	377
11	Correlated metals and the LDA+U method. Physical Review B, 2003, 67, .	1.1	363
12	Pairing symmetry and pairing state in ferropnictides: Theoretical overview. Physica C: Superconductivity and Its Applications, 2009, 469, 614-627.	0.6	360
13	Problems with reconciling density functional theory calculations with experiment in ferropnictides. Physical Review B, 2008, 78, .	1.1	352
14	Superconductivity in MgB_2 : Clean or Dirty?. Physical Review Letters, 2002, 89, 107002.	2.9	350
15	Ferromagnetic Spin Fluctuation Induced Superconductivity in Sr_2RuO_4 . Physical Review Letters, 1997, 79, 733-736.	2.9	311
16	Magnetic Collapse in Transition Metal Oxides at High Pressure: Implications for the Earth. Science, 1997, 275, 654-657.	6.0	305
17	Calculated thermoelectric properties of La-filled skutterudites. Physical Review B, 1997, 56, R1650-R1653.	1.1	283
18	Uniaxial-strain mechanical detwinning of CaFe_2As_2 . Physical Review B, 2010, 81, .	1.1	255

#	ARTICLE	IF	CITATIONS
19	Effect of magnetic frustration on nematicity and superconductivity in iron chalcogenides. Nature Physics, 2015, 11, 953-958.	6.5	255
20	Electronic structure, electron-phonon coupling, and multiband effects in MgB ₂ . Physica C: Superconductivity and Its Applications, 2003, 385, 49-65.	0.6	254
21	A key role for unusual spin dynamics in ferropnictides. Nature Physics, 2009, 5, 141-145.	6.5	250
22	Charge Ordering as Alternative to Jahn-Teller Distortion. Physical Review Letters, 2007, 98, .	2.9	241
23	Effect of magnetic and nonmagnetic impurities on highly anisotropic superconductivity. Physical Review B, 1997, 55, 15146-15152.	1.1	237
24	Fermi-surface nesting and the origin of the charge-density wave in NbSe ₂ . Physical Review B, 2006, 73, .	1.1	237
25	Competitions in Layered Ruthenates: Ferromagnetism versus Antiferromagnetism and Triplet versus Singlet Pairing. Physical Review Letters, 1999, 82, 4324-4327.	2.9	229
26	What superconducts in sulfur hydrides under pressure and why. Physical Review B, 2015, 91, .	1.1	220
27	Plane dimpling and saddle-point bifurcation in the band structures of optimally doped high-temperature superconductors: A tight-binding model. Physical Review B, 1994, 49, 4145-4157.	1.1	215
28	Origin of high transport spin polarization in La _{0.7} Sr _{0.3} MnO ₃ : Direct evidence for minority spin states. Physical Review B, 2001, 63, .	1.1	204
29	Probing spin polarization with Andreev reflection: A theoretical basis. Journal of Applied Physics, 2001, 89, 7576-7578.	1.1	197
30	Effect of dimensionality on the charge-density wave in few-layer 2-H-NbSe_2 . Physical Review B, 2009, 80, .	1.1	184
31	Roles of multiband effects and electron-hole asymmetry in the superconductivity and normal-state properties of 2-H-NbSe_2 . Physical Review B, 2009, 80, .		

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37	Quantitative Model for the Superconductivity Suppression in $R_{1-x}Pr_xBa_2Cu_3O_7$ with Different Rare Earths. Physical Review Letters, 1995, 74, 1000-1003.	2.9	160
38	Double Indirect Interlayer Exciton in a $MoSe_2/WSe_2$ van der Waals Heterostructure. ACS Nano, 2018, 12, 4719-4726.	7.3	160
39	Common Fermi liquid origin of T^2 resistivity and superconductivity in n -type $SrTiO_3$. Physical Review B, 2011, 84, .	1.1	158
40	Microscopic origin of magnetism and magnetic interactions in ferropnictides. Physical Review B, 2009, 79, .	1.1	155
41	$Na_2Co_2O_5$ a Molecular Orbital Crystal. Physical Review Letters, 2012, 109, 197201.	1.1	155
42	Electronic structure, local moments, and transport in Fe_2VAl . Physical Review B, 1998, 57, 14352-14356.	1.1	153
43	Unconventional electronic reconstruction in undoped $BaFe_2As_2$ the spin density wave transition. Physical Review B, 2009, 80, .	1.1	134
44	Phonon self-energies and the gap of high-temperature superconductors. Solid State Communications, 1990, 75, 219-223.	0.9	130
45	Resonant Raman scattering in $YBa_2Cu_3O_7$: Band theory and experiment. Physical Review Letters, 1990, 65, 3048-3051.	2.9	129
46	Intercalant-Driven Superconductivity in YbC_6 and CaC_6 . Physical Review Letters, 2005, 95, 227001.	2.9	118
47	Quantum and Classical Orientational Ordering in Solid Hydrogen. Physical Review Letters, 1997, 78, 1066-1069.	2.9	117
48	Lattice dynamics and reduced thermal conductivity of filled skutterudites. Physical Review B, 2000, 61, R9209-R9212.	1.1	116
49	Effects of magnetism and doping on the electron-phonon coupling in $BaFe_2As_2$. Physical Review B, 2010, 82, .	1.1	112
50	Transport, optical, and electronic properties of the half-metal CrO_2 . Physical Review B, 1999, 59, 411-418.	1.1	109
51	Robust half metallicity in $FeCoS_2$. Applied Physics Letters, 2000, 77, 3000-3002.	1.5	105
52	Symmetry analysis of possible superconducting states in $K_xFe_2Se_2$. Physical Review B, 2010, 82, .	1.1	105
53	Competing magnetic phases and fluctuation-driven scalar spin chirality in the kagome metal YMn_6Sn_6 . Science Advances, 2020, 6, .	4.7	103
54	Superconductivity and electronic structure of perovskite $MgCNi_3$. Physical Review B, 2001, 64, .	1.1	100

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55	Electronic structure and magnetism of Sr ₃ Ru ₂ O ₇ . Physical Review B, 2001, 63, .	1.1	100
56	Sign-reversal of the in-plane resistivity anisotropy in hole-doped iron pnictides. Nature Communications, 2013, 4, 1914.	5.8	100
57	Neutron Scattering and Superconducting Order Parameter in YBa ₂ Cu ₃ O ₇ . Physical Review Letters, 1995, 75, 4134-4137.	2.9	99
58	Structural phase diagram and electron-phonon interaction in Ba _{1-x} K _x BiO ₃ . Physical Review B, 1991, 44, 5388-5391.	1.1	96
59	Transport spin polarization of Ni _x Fe _{1-x} : Electronic kinematics and band structure. Physical Review B, 2000, 61, R3788-R3791.	1.1	95
60	Insulating gap in FeO: Correlations and covalency. Physical Review B, 1997, 55, 12822-12825.	1.1	92
61	London penetration depth in single crystals of $Ba_{1-x}K_xBiO_3$. Physical Review B, 2009, 79, .	1.1	92
62	Valence bond liquid phase in the honeycomb lattice material $LiRu_2O_3$. Physical Review B, 2014, 89, .	1.1	92
63	Toward one-band superconductivity in MgB ₂ . Physical Review B, 2003, 68, .	1.1	83
64	Anisotropic structure of the order parameter in FeSe _{0.45} Te _{0.55} revealed by angle-resolved specific heat. Nature Communications, 2010, 1, 112.	5.8	83
65	Why Ni ₃ Al is an Itinerant Ferromagnet but Ni ₃ Ga is Not. Physical Review Letters, 2004, 92, 147201.	2.9	82
66	Coupling of magnetic order to planar Bi electrons in the anisotropic Dirac metals $MnBi_2X_4$. Physical Review B, 2011, 84, .	1.1	81
67	Quantitative theory of superconductivity in doped C ₆₀ . Physical Review B, 1992, 45, 5114-5117.	1.1	79
68	Interband superconductivity: Contrasts between Bardeen-Cooper-Schrieffer and Eliashberg theories. Physical Review B, 2009, 79, .	1.1	78
69	Calculation of magnetic anisotropy energy in SmCo ₅ . Physical Review B, 2003, 67, .	1.1	77
70	Nesting, Spin Fluctuations, and Odd-Gap Superconductivity in Na _x CoO ₂ ·yH ₂ O. Physical Review Letters, 2004, 93, 097005.	2.9	76
71	First-principles calculations of the optical properties of metals. Journal of Physics F: Metal Physics, 1988, 18, 833-849.	1.6	75
72	First-principles study of Zn-Sb thermoelectrics. Physical Review B, 1998, 57, 6199-6203.	1.1	75

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73	Andreev Spectra and Subgap Bound States in Multiband Superconductors. Physical Review Letters, 2009, 103, 077003.	2.9	75
74	s-Wave Superconductivity from an Antiferromagnetic Spin-Fluctuation Model for Bilayer Materials. Physical Review Letters, 1995, 74, 2303-2306.	2.9	73
75	Structural, electronic, and magnetic properties of MnO. Physical Review B, 2001, 64, .	1.1	73
76	Paramagnetism in the kagome compounds $\text{Zn} \times \text{Ni}$. Physical Review B, 2015, 92, .		
77	Topology and correlations on the kagome lattice. Nature Materials, 2020, 19, 137-138.	13.3	68
78	A critical assessment of the superconducting pairing symmetry in $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$. Nature Physics, 2005, 1, 91-93.	6.5	67
79	Phase-Sensitive Tests of the Pairing State Symmetry in Sr_2RuO_4 . Physical Review Letters, 2005, 95, 217004.	2.9	65
80	Robust determination of the superconducting gap sign structure via quasiparticle interference. Physical Review B, 2015, 92, .	1.1	64
81	Extended Stoner factor calculations for the half-metallic ferromagnets NiMnSb and CrO_2 . Journal of Physics Condensed Matter, 1990, 2, 343-350.	0.7	62
82	Possible polytypism in FeO at high pressures. American Mineralogist, 1998, 83, 451-457.	0.9	61
83	de Haas-van Alphen Study of the Fermi Surfaces of Superconducting LiFeP and LiFeAs . Physical Review Letters, 2012, 108, 047002.	2.9	61
84	Competition between spin-orbit coupling, magnetism, and dimerization in the honeycomb iridates: \hat{I}_{\pm} under pressure. Physical Review B, 2018, 97, .	1.1	61
85	Dominance of the spin-dipolar NMR relaxation mechanism in fullerene superconductors. Physical Review B, 1993, 47, 12373-12376.	1.1	60
86	Coexistence of superconductivity and a spin-density wave in pnictide superconductors: Gap symmetry and nodal lines. Physical Review B, 2009, 80, .	1.1	59
87	Orbital Degeneracy Removed by Charge Order in Triangular Antiferromagnet AgNiO_2 . Physical Review Letters, 2007, 99, 157204.	2.9	58
88	Possible Phase-Sensitive Tests of Pairing Symmetry in Pnictide Superconductors. Physical Review Letters, 2009, 102, 227007.	2.9	58
89	Sign reversal of the order parameter in $(\text{Li}_{1-x}\text{Fex})\text{OHFe}_{1-y}\text{ZnySe}$. Nature Physics, 2018, 14, 134-139.	6.5	58
90	Origin of the insulating state in honeycomb iridates and rhodates. Physical Review B, 2013, 88, .	1.1	57

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91	Comment on "First-principles calculation of the superconducting transition in MgB ₂ within the anisotropic Eliashberg formalism". Physical Review B, 2004, 69, .	1.1	56
92	Electronic structure and superconductivity of CaAlSi and SrAlSi. Physical Review B, 2004, 69, .	1.1	54
93	Iron Superconductivity Weathers Another Storm. Physics Magazine, 0, 4, .	0.1	54
94	Theory of Mn-doped II-II-V semiconductors. Physical Review B, 2014, 90, .	1.1	54
95	Invariant Points and Phase Transitions in Deuterium at Megabar Pressures. Physical Review Letters, 1995, 75, 2514-2517.	2.9	53
96	Surface electronic structure of Sr ₂ RuO ₄ . Physical Review B, 2001, 64, .	1.1	53
97	Pinpointing gap minima in $Ba_{1-x}Bi_xFe_2As_2$. Physical Review B, 2010, 82, .	1.1	53
98	Manifestation of multiband optical properties of MgB ₂ . Solid State Communications, 2002, 121, 479-484.	0.9	52
99	Evidence of upper-critical-field enhancement in K ₃ C ₆₀ powders. Physical Review B, 1992, 46, 5876-5879.	1.1	51
100	Strong-coupling effects in alkali-metal-doped C ₆₀ . Physical Review B, 1993, 47, 538-541.	1.1	51
101	Competition of Spin Fluctuations and Phonons in Superconductivity of ZrZn ₂ . Physical Review Letters, 2002, 88, 187004.	2.9	51
102	Point contact spin spectroscopy of ferromagnetic MnAs epitaxial films. Physical Review B, 2003, 68, .	1.1	51
103	Interpretation of the de Haas-van Alphen experiments in MgB ₂ . Physical Review B, 2002, 65, .	1.1	50
104	Structural and electronic properties of the two-dimensional superconductor CuS with 1-valent copper. Physical Review B, 2012, 85, .	1.1	49
105	Calculations of the optical properties of metals by LMTO method. European Physical Journal B, 1983, 53, 263-270.	0.6	48
106	Raman excitations and orientational ordering in deuterium at high pressure. Physical Review B, 1996, 54, R15590-R15593.	1.1	48
107	Phenomenological interpretations of the ac Hall effect in the normal state of YBa ₂ Cu ₃ O ₇ . Physical Review B, 1998, 57, 3089-3098.	1.1	47
108	Superconductivity in compressed iron: Role of spin fluctuations. Physical Review B, 2002, 65, .	1.1	47

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109	Spin Fluctuations in $\text{Sr}_2\text{FeMoO}_6$ from Polarized Neutron Scattering: Implications for Superconductivity. Physical Review Letters, 2019, 122, 047004.	2.9	46
110	Sign reversal of the order parameter in s wave superconductors. Physica C: Superconductivity and Its Applications, 1995, 243, 153-159.	0.6	45
111	Effects of doping on the magnetic anisotropy energy in SmCo_5 and YCo_5 . Physical Review B, 2004, 69, .	1.1	43
112	Accounting for spin fluctuations beyond local spin density approximation in the density functional theory. Physical Review B, 2012, 86, .	1.1	43
113	Electronic structure and heavy-fermion behavior in LiV_2O_4 . Physical Review B, 1999, 60, 16359-16363.	1.1	42
114	First-principles study of spin-orbit effects and NMR in Sr_2RuO_4 . Physical Review B, 2006, 74, .	1.1	42
115	Dual character of magnetism in EuFe_2As_2 : Optical spectroscopic and density-functional calculation study. Physical Review B, 2010, 81, .	1.1	42
116	$\text{Sr}_2\text{VO}_3\text{FeAs}$ compared to other iron-based superconductors. Physical Review B, 2010, 81, .	1.1	42
117	Effect of isoelectronic doping on the honeycomb-lattice iridate IrO_3 . Physical Review B, 2014, 89, .	1.1	42
118	Reduction of the Spin Susceptibility in the Superconducting State of $\text{Sr}_2\text{FeMoO}_6$ Observed by Polarized Neutron Scattering. Physical Review Letters, 2020, 125, 217004.	2.9	42
119	Theoretical search for Chevrel-phase-based thermoelectric materials. Physical Review B, 1999, 59, 7969-7972.	1.1	41
120	Orientalional order in $\text{A}_3\text{C}_6\text{O}$: Antiferromagnetic Ising model for the fcc lattice. Physical Review Letters, 1993, 70, 4142-4145.	2.9	40
121	Three-dimensional magnetic interactions in Na_xCoO_2 : First-principles calculations and analysis of exchange mechanisms. Physical Review B, 2005, 71, .	1.1	40
122	Indications of weak electronic correlations in SrRuO_3 from first-principles calculations. Physical Review B, 2012, 86, .	1.1	40
123	Prediction of unconventional magnetism in doped FeSb_2 . Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	39
124	Displacive excitation of coherent phonons in $\text{YBa}_2\text{Cu}_3\text{O}_7$. Physical Review B, 1994, 49, 9210-9213.	1.1	38
125	Magnetism, critical fluctuations, and susceptibility renormalization in Pd. Physical Review B, 2004, 69, .	1.1	37
126	Electronic structure and magnetism in the frustrated antiferromagnet LiCrO_2 : First-principles calculations. Physical Review B, 2007, 75, .	1.1	37

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127	Effect of doping and pressure on magnetism and lattice structure of iron-based superconductors. Physical Review B, 2010, 82, .	1.1	37
128	Fermi-surface and low-energy excitation spectrum of YBa ₂ Cu ₃ O ₇ : Role of the Ba-O plane. Physical Review B, 1992, 45, 5103-5106.	1.1	36
129	Spin fluctuations and the magnetic phase diagram of ZrZn ₂ . Physical Review B, 2004, 69, .	1.1	36
130	Magnetic order multilayering in FeRh thin films by He-Ion irradiation. Materials Research Letters, 2018, 6, 106-112.	4.1	36
131	Role of correlations in determining the Van Hove strain in $Sr_{2-x}RuO_4$. Physical Review B, 2019, 100, .	1.1	36
132	Ising Superconductivity and Magnetism in $NbSe_2$. Physical Review X, 2020, 10, .	2.8	36
133	Designing phase-sensitive tests for Fe-based superconductors. Applied Physics Letters, 2013, 102, .	1.5	35
134	Localized itinerant electrons and unique magnetic properties of $SrRu_2O_6$. Physical Review B, 2015, 92, .	1.1	35
135	Tight-binding Hamiltonians for Sr-filled ruthenates: Application to the gap anisotropy and Hall coefficient in Sr ₂ RuO ₄ . Physical Review B, 2000, 61, 5223-5228.	1.1	34
136	Magnetic properties of SmCo ₅ and YCo ₅ . Journal of Applied Physics, 2003, 93, 6888-6890.	1.1	34
137	Insulator-metal transition in solid hydrogen: Implication of electronic-structure calculations for recent experiments. Physical Review B, 1995, 52, R8597-R8600.	1.1	33
138	NMR relaxation rates and Knight shifts in MgB ₂ . Physical Review B, 2001, 64, .	1.1	33
139	Critical Temperature and Enhanced Isotope Effect in the Presence of Paramagnons in Phonon-Mediated Superconductors. Physical Review Letters, 2005, 95, 257003.	2.9	32
140	<i>Ab initio</i> investigation of magnetic interactions in the frustrated triangular magnet $NiGa_2S_4$. Physical Review B, 2007, 76, .	1.1	32
141	<i>Ab initio</i> investigation of magnetic interactions in the frustrated triangular magnet $NiGa_2S_4$ and VO_2 . Physical Review B, 2007, 76, .	1.1	32
142	Electronic structure and electron-phonon coupling in the 18K superconductor Y ₂ C ₃ . Physical Review B, 2004, 70, .	1.1	31
143	Superconductivity in Ca-intercalated bilayer graphene. Philosophical Magazine Letters, 2010, 90, 731-738.	0.5	31
144	Electron-phonon effects in 4d metals: calculation of coupling constant and resistivity. Journal of Physics F: Metal Physics, 1984, 14, 167-174.	1.6	30

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145	Tuning magnetism and band topology through antisite defects in Sb-doped $\text{MnBi}_{1-x}\text{Sb}_x$. Physical Review B, 2021, 104, .	1.1	29
146	Ferromagnetism and spin-orbital compensation in Sm intermetallics. Physical Review B, 2003, 68, .	1.1	29
147	First-principles study of the minimal model of magnetic interactions in Fe-based superconductors. Physical Review B, 2014, 89, .	1.1	29
148	Extraordinarily conventional. Nature, 2015, 525, 40-41.	13.7	29
149	Structural Origin of the Anomalous Temperature Dependence of the Local Magnetic Moments in the CaFe_2As_2 of Materials. Physical Review Letters, 2015, 114, 047001.	2.9	28
150	Nonspherical rigid-muffin-tin calculations of electron-phonon coupling in high-Tc perovskites. Physical Review B, 1990, 42, 366-370.	1.1	27
151	Chain Scenario for Josephson Tunneling with π Shift in $\text{YBa}_2\text{Cu}_3\text{O}_7$. Physical Review Letters, 1995, 75, 2574-2577.	2.9	27
152	Vibron effective charges in dense hydrogen. Europhysics Letters, 1997, 37, 403-408.	0.7	27
153	Comment on "Low-Lying States and Hidden Kinematic Collective Charge Instabilities in Parent Cobaltate Superconductors". Physical Review Letters, 2008, 101, 089703; author reply 089704.	2.9	26
154	Optical properties and correlation effects in Na_xCoO_2 . Physical Review B, 2005, 71, .	1.1	24
155	Anisotropy of magnetic interactions and symmetry of the order parameter in unconventional superconductor Sr_2RuO_4 . Npj Quantum Materials, 2017, 2, .	1.8	24
156	Chiral properties of the zero-field spiral state and field-induced magnetic phases of the itinerant kagome metal YMn_6S_8 . Physical Review B, 2021, 103, .	1.1	24
157	Tunneling of Bloch electrons through vacuum barrier. Europhysics Letters, 2001, 55, 404-410.	0.7	23
158	Effect of disorder on the electronic structure of palladium. Physical Review B, 1990, 41, 7988-7998.	1.1	22
159	Electrons and phonons in YbC_6 : Density functional calculations and angle-resolved photoemission measurements. Physical Review B, 2005, 72, .	1.1	22
160	Estimation of the electron-phonon coupling in $\text{YBa}_2\text{Cu}_3\text{O}_7$ from the resistivity. Physical Review B, 1992, 45, 2509-2511.	1.1	21
161	Low-energy interband transitions in $\text{YBa}_2\text{Cu}_3\text{O}_7$. Physical Review B, 1992, 46, 11232-11235.	1.1	21
162	Ginzburg-Landau analysis of superconducting $\text{K}_3\text{C}_6\text{O}$. Solid State Communications, 1992, 81, 935-938.	0.9	21

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163	Growth and magnetic properties of single crystal $\text{Fe}_{1-x}\text{Co}_x\text{S}_2$ ($x=0.35\text{--}1$). Journal of Applied Physics, 2003, 93, 6847-6849.	1.1	21
164	Combining the advantages of superconducting MgB_2 and CaC_6 in one material: Suggestions from first-principles calculations. Physical Review B, 2007, 75, . Uncovering the Mechanism of the Impurity-Selective Mott Transition in Paramagnetic MgB_2 . Physical Review Letters, 2018, 121, 106401.	1.1	21
165	Direct-Write of Nanoscale Domains with Tunable Metamagnetic Order in FeRh Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 836-847.	2.9	21
166	Superconducting and transport electron-phonon coupling constants in $\text{YBa}_2\text{Cu}_3\text{O}_7$: effect of the interband anisotropy. Physica C: Superconductivity and Its Applications, 1993, 209, 125-128.	4.0	21
167	Location of holes in $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_7$. Physical Review B, 1998, 57, 150-152.	0.6	20
168	Calculation of magnetic anisotropy energy in YCo_5 . Journal of Magnetism and Magnetic Materials, 2003, 264, 7-13.	1.1	20
169	The FeSe riddle. Nature Materials, 2015, 14, 755-756.	1.0	20
170	Double-stage nematic bond ordering above double stripe magnetism: Application to BaTi_2O_7 . Physical Review B, 2017, 95, .	13.3	20
171	Nonlocal density functionals and the linear response of the homogeneous electron gas. Physical Review B, 1998, 57, 6879-6883.	1.1	19
172	Electronic structure calculations of Al-Cu alloys: Comparison with experimental results on Hume-Rothery phases. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 205-221.	0.6	19
173	Magnetic states and structural transformations in $\text{Sm}(\text{Co,Cu})_5$ and $\text{Sm}(\text{Co,Fe,Cu})_5$ permanent magnets. Journal Physics D: Applied Physics, 2005, 38, 1337-1341.	1.3	18
174	Formation of an unconventional Ag valence state in Ag_2NiO_2 . Physical Review B, 2007, 75, .	1.1	18
175	Notes on the static dielectric response function in the density functional theory. Ferroelectrics, 1997, 194, 263-270.	0.3	17
176	Direct Observation of Charge Order in Triangular Metallic AgNiO_2 by Single-Crystal Resonant X-Ray Scattering. Physical Review Letters, 2011, 106, 157206.	2.9	17
177	Phase diagram of a distorted kagome antiferromagnet and application to Y-kapellasite. Npj Computational Materials, 2022, 8, .	3.5	17
178	Normal-state electronic Raman-scattering efficiencies of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$, $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$, and $\text{Tl}_2\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$: Effects of local-density-approximation Fermi-surface mass fluctuations. Physical Review B, 1995, 51, 5949-5954.	1.1	16
179	Theoretical possibilities for superconductivity in $\text{PrBa}_2\text{Cu}_3\text{O}_7$. Physical Review B, 1999, 60, 92-95.	1.1	16

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181	Field-induced magnetic transitions in MnSi		
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199	First-principles evidence of Mn moment canting in hole-doped $\text{Ba}_{1-x}\text{K}_x\text{BiO}_3$. Physical Review B, 2014, 89, .	1.1	13
200	Spectroscopic signatures of molecular orbitals in transition metal oxides with a honeycomb lattice. Physical Review B, 2016, 94, .	1.1	13
201	Nontrivial Role of Interlayer Cation States in Iron-Based Superconductors. Physical Review Letters, 2017, 118, 017204.	2.9	13
202	Frustration-driven C4 symmetric order in a naturally-heterostructured superconductor $\text{Sr}_2\text{VO}_3\text{FeAs}$. Nature Communications, 2017, 8, 2167.	5.8	13
203	Field-tunable toroidal moment in a chiral-lattice magnet. Nature Communications, 2021, 12, 5339.	5.8	13
204	Highly unconventional surface reconstruction of NaMn_2O_4 persistent energy gap. Physical Review B, 2015, 91, .	1.1	11
205	Transport, optical and electronic properties of the half metal CrO_2 . Journal of Applied Physics, 1999, 85, 6220-6222.	1.1	11
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