

# Ryotaro Arita

## List of Publications by Year in descending order

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332  
papers

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11608

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336  
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336  
docs citations

336  
times ranked

14990  
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2021 room-temperature superconductivity roadmap. Journal of Physics Condensed Matter, 2022, 34, 183002.	0.7	79
2	Topological Magnets: Functions Based on Berry Phase and Multipoles. Annual Review of Condensed Matter Physics, 2022, 13, 119-142.	5.2	31
3	Field-induced multiple metal-insulator crossovers of correlated Dirac electrons of perovskite CaIrO <sub>3</sub> . Npj Quantum Materials, 2022, 7, .	1.8	4
4	Phase Diagram of Nickelate Superconductors Calculated by Dynamical Vertex Approximation. Frontiers in Physics, 2022, 9, .	1.0	24
5	Large anomalous Nernst effect and nodal plane in an iron-based kagome ferromagnet. Science Advances, 2022, 8, eabk1480.	4.7	35
6	Magnetic structures and electronic properties of cubic-pyrochlore ruthenates from first principles. Journal of Physics Condensed Matter, 2022, 34, 194003.	0.7	2
7	Hyperuniform electron distributions controlled by electron interactions in quasicrystals. Physical Review B, 2022, 105, .	1.1	6
8	Multipole polaron in the devil's staircase of CeSb. Nature Materials, 2022, 21, 410-415.	13.3	9
9	Anharmonic Gr <sup>1/4</sup> neisen theory based on self-consistent phonon theory: Impact of phonon-phonon interactions neglected in the quasiharmonic theory. Physical Review B, 2022, 105, .	1.1	11
10	Ab Initio Downfolding Based on the GW Approximation for Infinite-Layer Nickelates. Frontiers in Physics, 2022, 10, .	1.0	6
11	Anomalous transport properties of the antiferromagnetic Weyl semimetals Mn <sub>3</sub> X (X = Sn, Tl). Physical Review B, 2022, 105, .	0.3	1
12	Superconductivity in infinite-layer nickelates. Reports on Progress in Physics, 2022, 85, 052501.	8.1	43
13	Wannier-based implementation of the coherent potential approximation with applications to Fe-based transition metal alloys. Physical Review B, 2022, 105, .	1.1	1
14	Maximizing intrinsic anomalous Hall effect by controlling the Fermi level in simple Weyl semimetal films. Physical Review B, 2022, 105, .	1.1	4
15	Spin-orbit-derived giant magnetoresistance in a layered magnetic semiconductor AgCrSe <sub>2</sub> . Physical Review Materials, 2022, 6, .	1.1	1
16	Optimal alloying in hydrides: Reaching room-temperature superconductivity in LaH <sub>10</sub> . Physical Review B, 2022, 105, .	1.1	1
17	Quantum and temperature effects on the crystal structure of superhydride LaH <sub>10</sub> : A path integral molecular dynamics study. Physical Review B, 2022, 105, .	1.1	1
18	Fermi Surface Expansion above Critical Temperature in a Hund Ferromagnet. Physical Review Letters, 2022, 128, .	2.9	5

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19	Doping fingerprints of spin and lattice fluctuations in moiré superlattice systems. Physical Review B, 2022, 105, .	1.1	6
20	Odd-even layer-number effect of valence-band spin splitting in $\text{WTe}_2$ . Physical Review Research, 2022, 4, .	1.3	5
21	Strongly correlated superconductivity with long-range spatial fluctuations. JPhys Materials, 2022, 5, 034005.	1.8	7
22	Metal-to-insulator transition in Pt-doped TiSe2 driven by emergent network of narrow transport channels. Npj Quantum Materials, 2021, 6, .	1.8	10
23	Evidence for a higher-order topological insulator in a three-dimensional material built from van der Waals stacking of bismuth-halide chains. Nature Materials, 2021, 20, 473-479.	13.3	98
24	Geometrical Hall effect and momentum-space Berry curvature from spin-reversed band pairs. Physical Review B, 2021, 103, .	1.1	8
25	Benchmark for $\text{AbInitio}$ Prediction of Magnetic Structures Based on Cluster-Multipole Theory. Physical Review X, 2021, 11, .	2.8	11
26	Quantum transport observed in films of the magnetic topological semimetal $\text{EuSb}_2$ . Physical Review B, 2021, 103, .	1.1	1
27	Giant Effective Damping of Octupole Oscillation in an Antiferromagnetic Weyl Semimetal. Small Science, 2021, 1, 2000062.	5.8	20
28	Gate-controlled BCS-BEC crossover in a two-dimensional superconductor. Science, 2021, 372, 190-195.	6.0	69
29	Chemical physics of superconductivity in layered yttrium carbide halides from first principles. Physical Review B, 2021, 103, .	1.1	0
30	First-principles design of halide-reduced electrides: Magnetism and topological phases. Physical Review Materials, 2021, 5, .	0.9	5
31	Fully filling-controlled pyrochlore ruthenates: Emergent ferromagnetic-metal state and geometrical Hall effect. Physical Review B, 2021, 103, .	1.1	2
32	Efficient fluctuation-exchange approach to low-temperature spin fluctuations and superconductivity: From the Hubbard model to $\text{Na}_2\text{Hf}_2\text{O}_7$ . Physical Review B, 2021, 103, .	1.1	1
33	Visualization of the strain-induced topological phase transition in a quasi-one-dimensional superconductor $\text{TaSe}_3$ . Nature Materials, 2021, 20, 1093-1099.	13.3	57
34	Anisotropic superconductivity in the topological crystalline metal $\text{Pb}_3\text{TaS}_2$ with multiple Dirac fermions. Physical Review B, 2021, 104, .	1.1	5
35	Absence of conventional room-temperature superconductivity at high pressure in carbon-doped $\text{HfS}_3$ . Physical Review B, 2021, 104, .	1.1	40
36	High-pressure synthesis of $\text{Ba}_2\text{Rh}_2\text{O}_8$ , a rhodate analog of the layered perovskite Sr-ruthenate. Physical Review Materials, 2021, 5, .	0.9	2

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37	Anomalous transport due to Weyl fermions in the chiral antiferromagnets Mn <sub>3</sub> X, X=Sn, Ge. Nature Communications, 2021, 12, 572.	5.8	90
38	Origin of anomalous temperature dependence of the Nernst effect in narrow-gap semiconductors. Physical Review B, 2021, 103, .	1.1	4
39	Magneto-optical spectroscopy on Weyl nodes for anomalous and topological Hall effects in chiral MnGe. Nature Communications, 2021, 12, 5974.	5.8	13
40	Emergence of spin-orbit coupled ferromagnetic surface state derived from Zak phase in a nonmagnetic insulator FeSi. Science Advances, 2021, 7, eabj0498.	4.7	10
41	Skyrmion-size dependence of the topological Hall effect: A real-space calculation. Physical Review B, 2021, 104, .	1.1	10
42	Tuning the Parity Mixing of Singlet-Septet Pairing in a Half-Heusler Superconductor. Physical Review X, 2021, 11, .	2.8	9
43	Wannier90 as a community code: new features and applications. Journal of Physics Condensed Matter, 2020, 32, 165902.	0.7	807
44	Giant magneto-optical responses in magnetic Weyl semimetal Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . Nature Communications, 2020, 11, 4619.	5.8	92
45	Efficient <i>ab initio</i> Migdal-Eliashberg calculation considering the retardation effect in phonon-mediated superconductors. Physical Review B, 2020, 102, .	1.1	19
46	Local force method for the <i>ab initio</i> tight-binding model: Effect of spin-dependent hopping on exchange interactions. Physical Review B, 2020, 102, .	1.1	15
47	Topological Nernst Effect of the Two-Dimensional Skyrmion Lattice. Physical Review Letters, 2020, 125, 076602.	2.9	55
48	Physical properties of weak-coupling quasiperiodic superconductors. Physical Review B, 2020, 102, .	1.1	25
49	Nickelate superconductors—a renaissance of the one-band Hubbard model. Npj Quantum Materials, 2020, 5, .	1.8	129
50	Topological Kagome Magnet Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> Thin Flakes with High Electron Mobility and Large Anomalous Hall Effect. Nano Letters, 2020, 20, 7476-7481.	4.5	54
51	Formation Mechanism of the Helical $Q$ Structure in Gd-Based Skyrmion Materials. Physical Review Letters, 2020, 125, 117204.	2.9	48
52	Imaging the coupling between itinerant electrons and localised moments in the centrosymmetric skyrmion magnet GdRu <sub>2</sub> Si <sub>2</sub> . Nature Communications, 2020, 11, 5925.	5.8	75
53	Competing spin modulations in the magnetically frustrated semimetal EuCuSb. Physical Review B, 2020, 102, .	1.1	10
54	Cluster Multipole Dynamics in Noncollinear Antiferromagnets. , 2020, , .		1

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55	Devil's staircase transition of the electronic structures in CeSb. Nature Communications, 2020, 11, 2888.	5.8	21
56	A perspective on conventional high-temperature superconductors at high pressure: Methods and materials. Physics Reports, 2020, 856, 1-78.	10.3	304
57	Materials design of dynamically stable layered nickelates. Physical Review B, 2020, 101, .	2.9	27
58	Microscopic characterization of the superconducting gap function in $\text{Sn}_x\text{In}_x\text{Te}$ . Physical Review B, 2020, 101, .	1.1	6
59	Iron-based binary ferromagnets for transverse thermoelectric conversion. Nature, 2020, 581, 53-57.	13.7	162
60	Electrical manipulation of a topological antiferromagnetic state. Nature, 2020, 580, 608-613.	13.7	212
61	Quantum crystal structure in the 250-kelvin superconducting lanthanum hydride. Nature, 2020, 578, 66-69.	13.7	193
62	Enhancement of the transverse thermoelectric conductivity originating from stationary points in nodal lines. Physical Review B, 2020, 102, .	1.1	23
63	Superconductivity in Uniquely Strained $\text{RuO}_2$ Films. Physical Review Letters, 2020, 125, 147001.	2.9	27
64	Cluster multipole dynamics in noncollinear antiferromagnets. Physical Review Research, 2020, 2, .	1.3	16
65	Magnetic exchange coupling in cuprate-analog layered nickelates. Physical Review Research, 2020, 2, .	1.1	6
66	A Prediction for "Hot" Superconductivity. Physics Magazine, 2019, 12, .	0.1	4
67	Strong-correlation induced high-mobility electrons in Dirac semimetal of perovskite oxide. Nature Communications, 2019, 10, 362.	5.8	59
68	Unconventional orbital ordering and emergent dimensional reduction in fulleride superconductors. Physical Review B, 2019, 99, .	1.1	6
69	Multipole expansion for magnetic structures: A generation scheme for a symmetry-adapted orthonormal basis set in the crystallographic point group. Physical Review B, 2019, 99, .	1.1	59
70	Topological transitions among skyrmion- and hedgehog-lattice states in cubic chiral magnets. Nature Communications, 2019, 10, 1059.	5.8	112
71	Enhanced thermopower in the correlated semimetallic phase of hole-doped pyrochlore iridates. Physical Review B, 2019, 99, .	1.1	9
72	A weak topological insulator state in quasi-one-dimensional bismuth iodide. Nature, 2019, 566, 518-522.	13.7	119

#	ARTICLE	IF	CITATIONS
73	Giant thermoelectric power factor in ultrathin FeSe superconductor. Nature Communications, 2019, 10, 825.	5.8	61
74	Formation of a two-dimensional single-component correlated electron system and band engineering in the nickelate superconductor $\text{NdNiO}_2$ . Physical Review B, 2019, 100, .	1.1	161
75	Large Variation of Dirac Semimetal State in Perovskite $\text{CaIrO}_3$ with Pressure-Tuning of Electron Correlation. Physical Review Letters, 2019, 123, 216601.	2.9	19
76	Possible Superconductivity Induced by a Large Spin-Orbit Coupling in Carrier Doped Iridium Oxide Insulators: A Weak Coupling Approach. Journal of the Physical Society of Japan, 2019, 88, 094701.	0.7	3
77	Ferromagnetic state above room temperature in a proximitized topological Dirac semimetal. Physical Review B, 2019, 100, .	1.1	18
78	Finite phenine nanotubes with periodic vacancy defects. Science, 2019, 363, 151-155.	6.0	159
79	Exotic pairing state in quasicrystalline superconductors under a magnetic field. Physical Review Research, 2019, 1, .	1.3	35
80	Experimental Determination of the Topological Phase Diagram in Cerium Monopnictides. Physical Review Letters, 2018, 120, 086402.	2.9	50
81	Magnetic order of $\text{Nd}_5\text{Pb}_3$ single crystals. Journal of Physics Condensed Matter, 2018, 30, 135801.	0.7	4
82	Large magneto-thermopower in MnGe with topological spin texture. Nature Communications, 2018, 9, 408.	5.8	36
83	Large magneto-optical Kerr effect and imaging of magnetic octupole domains in an antiferromagnetic metal. Nature Photonics, 2018, 12, 73-78.	15.6	260
84	First-Principles Evaluation of the Dzyaloshinskii-Moriya Interaction. Journal of the Physical Society of Japan, 2018, 87, 041011.	0.7	35
85	Multiple- $q$ noncollinear magnetism in an itinerant hexagonal magnet. Science Advances, 2018, 4, eaau3402.	4.7	47
86	Spin-orbit coupling, minimal model and potential Cooper-pairing from repulsion in $\text{BiS}_2$ -superconductors. New Journal of Physics, 2018, 20, 043029.	1.2	4
87	Controlling the helicity of magnetic skyrmions in a $\hat{I}^2$ -Mn-type high-temperature chiral magnet. Physical Review B, 2018, 98, .	1.1	32
88	Emergence of interfacial conduction and ferromagnetism in MnTe/InP. Applied Physics Letters, 2018, 113, .	1.5	8
89	Giant anomalous Nernst effect and quantum-critical scaling in a ferromagnetic semimetal. Nature Physics, 2018, 14, 1119-1124.	6.5	366
90	Tailoring band structure and band filling in a simple cubic (IV, III)-VI superconductor. Physical Review Materials, 2018, 2, .	0.9	13

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91	Negative-pressure-induced helimagnetism in ferromagnetic cubic perovskites $\text{Sr}_{1-x}\text{Ba}_x\text{CoO}_3$ . Physical Review Materials, 2018, 2, .	0.9	6
92	Nonempirical Calculation of Superconducting Transition Temperatures in Light-Element Superconductors. Advanced Materials, 2017, 29, 1602421.	11.1	22
93	Correlated Band Structure of a Transition Metal Oxide ZnO Obtained from a Many-Body Wave Function Theory. Physical Review Letters, 2017, 118, 026402.	2.9	17
94	Efficient Blue Electroluminescence from a Single-Layer Organic Device Composed Solely of Hydrocarbons. Chemistry - an Asian Journal, 2017, 12, 730-733.	1.7	15
95	Emergent Magnéli-type crystal phases and their mixture in pressurized sulfur hydride. Novel Superconducting Materials, 2017, 3, .	0.8	2
96	Cluster multipole theory for anomalous Hall effect in antiferromagnets. Physical Review B, 2017, 95, .	1.1	200
97	$\pi$ -electron $\nu=1/2$ quantum spin-liquid state in an ionic polyaromatic hydrocarbon. Nature Chemistry, 2017, 9, 635-643.	6.6	46
98	Communication Structural Modulation of Macrocyclic Materials for Charge Carrier Transport Layers in Organic Light-Emitting Devices. ECS Journal of Solid State Science and Technology, 2017, 6, M3065-M3067.	0.9	5
99	Pentagon-Embedded Cycloarylenes with Cylindrical Shapes. Angewandte Chemie - International Edition, 2017, 56, 9106-9110.	7.2	40
100	Superconductivity on a quasiperiodic lattice: Extended-to-localized crossover of Cooper pairs. Physical Review B, 2017, 95, .	1.1	47
101	Evidence for magnetic Weyl fermions in a correlated metal. Nature Materials, 2017, 16, 1090-1095.	13.3	450
102	Orbital-dependent quasiparticle scattering interference in $\text{BiS}_2$ . Physical Review B, 2017, 96, .		
103	Localized-itinerant dichotomy and unconventional magnetism in $\text{SrRu}_2\text{O}_6$ . Scientific Reports, 2017, 7, 11742.	1.6	13
104	Large anomalous Nernst effect at room temperature in a chiral antiferromagnet. Nature Physics, 2017, 13, 1085-1090.	6.5	432
105	Efficient method to calculate the electron-phonon coupling constant and superconducting transition temperature. Computer Physics Communications, 2017, 220, 239-242.	3.0	8
106	Pentagon-Embedded Cycloarylenes with Cylindrical Shapes. Angewandte Chemie, 2017, 129, 9234-9238.	1.6	18
107	Weak phonon-mediated pairing in $\text{BiS}_2$ superconductor from first principles. Physical Review B, 2017, 95, .		
108	Spectroscopic evidence for a type II Weyl semimetallic state in $\text{MoTe}_2$ . Nature Materials, 2016, 15, 1155-1160.	13.3	437

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109	Exotic <i>s</i> -wave superconductivity in alkali-doped fullerides. Journal of Physics Condensed Matter, 2016, 28, 153001.	0.7	46
110	Orbital-Dependent Band Narrowing Revealed in an Extremely Correlated Hund's Metal Emerging on the Topmost Layer of $\text{Sr}_2\text{VO}_6$ . Physical Review Letters, 2016, 117, 247001.	2.9	16
111	Iterative diagonalization of the non-Hermitian transcorrelated Hamiltonian using a plane-wave basis set: Application to <i>sp</i> -electron systems with deep core states. Journal of Chemical Physics, 2016, 144, 104109.	1.2	13
112	Gate-Tuned Thermoelectric Power in Black Phosphorus. Nano Letters, 2016, 16, 4819-4824.	4.5	113
113	Possible $\text{d}^0$ -Phases and Self-Alloying in the Superconducting Sulfur Hydride. Physical Review Letters, 2016, 117, 075503.	2.9	63
114	Magnetic properties and pairing tendencies of the iron-based superconducting ladder $\text{BaFe}_2\text{O}_6$ : Combined <i>ab initio</i> and density matrix renormalization group study. Physical Review B, 2016, 94, .	1.1	35
115	On the possibility of excitonic magnetism in Ir double perovskites. Physical Review B, 2016, 93, .	1.1	35
116	Strain-induced topological transition in $\text{SrRu}_2\text{O}_6$ and $\text{CaOs}_2\text{O}_6$ . Physical Review B, 2016, 93, .	1.1	14
117	Dzyaloshinskii-Moriya Interaction as a Consequence of a Doppler Shift due to Spin-Orbit-Induced Intrinsic Spin Current. Physical Review Letters, 2016, 116, 247201.	2.9	103
118	Effect of Van Hove singularities on high- $T_c$ superconductivity in $\text{H}_3\text{S}$ . Physical Review B, 2016, 93, .	1.1	108
119	Aromatic hydrocarbon macrocycles for highly efficient organic light-emitting devices with single-layer architectures. Chemical Science, 2016, 7, 896-904.	3.7	63
120	Two-Dimensional Valley Electrons and Excitons in Noncentrosymmetric $\text{R}_3\text{CoSb}_5$ . Physical Review Applied, 2015, 4, .	1.5	43
121	Robust flat bands in $\text{R}_3\text{CoSb}_5$ . Physical Review B, 2015, 92, .	1.1	19
122	<i>Ab initio</i> downfolding study of the iron-based ladder superconductor $\text{BaFe}_2\text{O}_6$ . Physical Review B, 2015, 92, .	1.1	28
123	Magnetic properties in Fe-based compound $\text{BaFe}_2\text{O}_6$ . Physical Review B, 2015, 92, .	1.1	31
124	High antiferromagnetic transition temperature of the honeycomb compound $\text{SrRu}_2\text{O}_6$ . Physical Review B, 2015, 92, .	1.1	37
125	<i>Ab initio</i> downfolding for electron-phonon-coupled systems: Constrained density-functional perturbation theory. Physical Review B, 2015, 92, .	1.1	37
126	Temperature-Induced Lifshitz Transition in $\text{WTe}_2$ . Physical Review Letters, 2015, 115, 166602.	2.9	176



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127	Field-direction control of the type of charge carriers in nonsymmorphic $\text{IrO}_2$ . Physical Review B, 2015, 91, .		
128	Control of Dzyaloshinskii-Moriya interaction in $\text{Mn}^{1-x}\text{Fe}_x\text{Ge}$ : a first-principles study. Scientific Reports, 2015, 5, 13302.	1.6	113
129	Unified understanding of superconductivity and Mott transition in alkali-doped fullerenes from first principles. Science Advances, 2015, 1, e1500568.	4.7	90
130	Modification of electronic structure and thermoelectric properties of hole-doped tungsten dichalcogenides. Physical Review B, 2015, 91, .	1.1	27
131	Nonlocal correlations induced by Hund's coupling: A cluster DMFT study. Physical Review B, 2015, 91, .	1.1	24
132	First-principles study of the pressure and crystal-structure dependences of the superconducting transition temperature in compressed sulfur hydrides. Physical Review B, 2015, 91, .	1.1	141
133	Emergent Loop-Nodal $s$ -Wave Superconductivity in $\text{CeCu}_2$ Similarities to $\text{Physical Review Letters}$ , 2015, 114, 147002.	2.9	51
134	Theoretical Study of the Chemical Pressure Effect on $T_c$ in the Cuprate Superconductors. Physics Procedia, 2014, 58, 34-37.	1.2	0
135	Mott versus Slater-Type Metal-Insulator Transition in $\text{Sr}_2\text{IrO}_4$ and $\text{Ba}_2\text{IrO}_4$ . , 2014, , .		4
136	Mechanism of charge transfer/disproportionation in $\text{LnCu}_3\text{Fe}_4\text{O}_{12}$ ( $\text{Ln}=\text{lanthanides}$ ). Physical Review B, 2014, 89, .	1.1	9
137	Multipole fluctuations of itinerant $f$ electrons and triakontadipole order in $\text{URu}_2$ . Comptes Rendus Physique, 2014, 15, 587-598.	0.3	4
138	Photoinduced sign inversion of the anomalous Hall effect in $\text{EuO}$ thin films. Physical Review B, 2014, 89, .	1.1	7
139	Anomalous Fermi surface in $\text{FeSe}$ seen by Shubnikov-de Haas oscillation measurements. Physical Review B, 2014, 90, .	1.1	155
140	Density Functional Theory for Plasmon-Assisted Superconductivity. Journal of the Physical Society of Japan, 2014, 83, 061016.	0.7	29
141	Multiorbital cluster dynamical mean-field theory with an improved continuous-time quantum Monte Carlo algorithm. Physical Review B, 2014, 89, .	1.1	25
142	Effect of Electron-Phonon Interactions on Orbital Fluctuations in Iron-Based Superconductors. Physical Review Letters, 2014, 112, 027002.	2.9	19
143	First-Principles Study of the Honeycomb-Lattice Iridates $\text{NaIr}_2\text{O}_6$ and $\text{NaIrO}_3$ : the Presence of Strong Spin-Orbit Interaction and Electron Correlations. Physical Review Letters, 2014, 113, 107201.	2.9	19
144	Valley-dependent spin polarization in bulk $\text{MoS}_2$ with broken inversion symmetry. Nature Nanotechnology, 2014, 9, 611-617.	15.6	374

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145	Correlation effects in (111) bilayers of perovskite transition-metal oxides. Physical Review B, 2014, 89, .	1.1	63
146	Orbital mixture effect on the Fermi-surface $T_c$ in the cuprate superconductors: Bilayer vs. single layer. Physical Review B, 2014, 89, .		
147	Anisotropy of the superconducting gap in the iron-based superconductor $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$ . Scientific Reports, 2014, 4, 7292.	1.6	25
148	Electron-Phonon Interactions and Orbital Fluctuations in Iron-based Superconductors. , 2014, , .		0
149	Zeeman-type spin splitting controlled by an electric field. Nature Physics, 2013, 9, 563-569.	6.5	462
150	Theory of Topological Quantum Phase Transitions in 3D Noncentrosymmetric Systems. Physical Review Letters, 2013, 110, 086402.	2.9	28
151	Development of Density-Functional Theory for a Plasmon-Assisted Superconducting State: Application to Lithium Under High Pressures. Physical Review Letters, 2013, 111, 057006.	2.9	65
152	Three-orbital Study on the Orbital Distillation Effect in the High $T_c$ Cuprates. Physics Procedia, 2013, 45, 13-16.	1.2	5
153	Local strain and anharmonicity in the bonding of $\text{Bi}_2\text{Se}_3$ topological insulators. Physical Review B, 2013, 88, .		
154	Nonempirical study of superconductivity in alkali-doped fullerides based on density functional theory for superconductors. Physical Review B, 2013, 88, .	1.1	29
155	Shubnikov-de Haas oscillations in the bulk Rashba semiconductor $\text{BiTeI}$ . Physical Review B, 2013, 87, .	1.1	29
156	Atomically resolved spectroscopic study of $\text{Sr}_2\text{IrO}_4$ : Experiment and theory. Scientific Reports, 2013, 3, 3073. Mechanism of Enhanced Optical Second-Harmonic Generation in the Conducting Pyrochlore-Type $\text{Pb}_2\text{Ir}_2\text{O}_7$ Oxide Compound. Physical Review Letters, 2013, 110, 187402.	1.6	55
157		2.9	44
158	SCDFT Study of High $T_c$ Nitride Superconductors. Physics Procedia, 2013, 45, 25-28.	1.2	0
159	Dependence of Carrier Doping on the Impurity Potential in Transition-Metal-Substituted FeAs-Based Superconductors. Physical Review Letters, 2013, 110, 107007.	2.9	73
160	Strongly Spin-Orbit Coupled Two-Dimensional Electron Gas Emerging near the Surface of Polar Semiconductors. Physical Review Letters, 2013, 110, 107204.	2.9	154
161	Extremely high electron mobility in a phonon-glass semimetal. Nature Materials, 2013, 12, 512-517.	13.3	174
162	Superconductivity in $\text{Cu}_x\text{IrTe}_2$ driven by interlayer hybridization. Physical Review B, 2013, 87, .	1.1	70

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163	<p>calculation of plasmon excitations in the quasi-one-dimensional organic compound (TMTSF)</p> <p>Publisher's Note: Dependence of Carrier Doping on the Impurity Potential in Transition-Metal-Substituted FeAs-based Superconductors [Phys. Rev. Lett. <b>110</b>, 107007 (2013)]. Physical Review Letters, 2013, 110, .</p>	1.1	5
164	<p>Density functional theory for superconductors with particle-hole asymmetric electronic structure. Physical Review B, 2013, 88, .</p>	1.1	18
166	<p>Superconductivity assisted by interlayer pair hopping in multilayered cuprates. Physical Review B, 2013, 88, .</p>	1.1	20
167	<p>Development of a two-particle self-consistent method for multiorbital systems and its application to unconventional superconductors. Physical Review B, 2013, 87, .</p>	1.1	29
168	<p>First-principles band structure and FLEX approach to the pressure effect on <math>T_c</math> of the cuprate superconductors. Journal of Physics: Conference Series, 2013, 454, 012021.</p>	0.3	7
169	<p>Octet-Line Node Structure of Superconducting Order Parameter in <math>KFe_2As_2</math>. Science, 2012, 337, 1314-1317.</p>	6.0	215
170	<p>Polar Antiferromagnets Produced with Orbital Order. Physical Review Letters, 2012, 108, 157603.</p>	2.9	10
171	<p>Enhanced Infrared Magneto-Optical Response of the Nonmagnetic Semiconductor BiTeI Driven by Bulk Rashba Splitting. Physical Review Letters, 2012, 109, 167401.</p>	2.9	43
172	<p>Spin Hall effect in iron-based superconductors: A Dirac-point effect. Physical Review B, 2012, 86, .</p>	1.1	12
173	<p>Effective on-site interaction for dynamical mean-field theory. Physical Review B, 2012, 86, .</p>	1.1	60
174	<p>High-temperature superconductivity in layered nitrides <math>Li\text{-}Li\text{-}Li</math></p>		

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181	<i>Ab initio</i> derivation of electronic low-energy models for $C_{60}$ and aromatic compounds. <i>Physical Review B</i> , 2012, 85, .	1.1	83
182	Mechanisms of Enhanced Orbital Dia- and Paramagnetism: Application to the Rashba Semiconductor BiTeI. <i>Physical Review Letters</i> , 2012, 108, 247208.	2.9	35
183	Emergent quantum confinement at topological insulator surfaces. <i>Nature Communications</i> , 2012, 3, 1159.	5.8	235
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