

Colloquium: The unexpected properties of alkali superconductors

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Spin fluctuations away from T_j in the superconducting phase of molecular-intercalated FeSe. Physical Review B, 2013, 87, .	1.1	18
2	Diversity of Microstructural Phenomena in Superconducting and Non-superconducting $Rb_xFe_2Se_2$: A Transmission Electron Microscopy Study at the Atomic Scale. Inorganic Chemistry, 2013, 52, 14419-14427.	1.9	3
3	Exploring FeSe-based superconductors by liquid ammonia method. Chinese Physics B, 2013, 22, 087412.	0.7	14
4	Enhancement of phase separation and superconductivity in Mn-doped $K_{0.8}Fe_2MnSe_2$ crystals. Journal of Physics Condensed Matter, 2013, 25, 335701.	0.7	3
5	Crystallographic, electronic, thermal, and magnetic properties of single-crystal $SrCo_{1-x}Mn_xAs_2$. Physical Review B, 2013, 88, .	1.1	67
6	$B1g$ -like pairing states in two-leg ladder iron superconductors. Physical Review B, 2013, 88, .	1.1	12
7	Distinguishing A_{1g} pairing symmetries by neutron spin resonance in superconducting $NaFe_1-xAs_x$. Physical Review B, 2013, 88, .	1.1	45
8	Impurity-induced subgap bound states in alkali-doped iron chalcogenide superconductors. Physical Review B, 2013, 88, .	1.1	5
9	Spin resonance in $K_xFe_2Se_2$ with d_{xy} pairing regions. Physical Review B, 2013, 88, .	1.1	11
10	Spin fluctuations and superconductivity in $K_xFe_2Se_2$. Physical Review B, 2013, 88, .	1.1	3
11	Correlation properties of FeAs-based superconductors: Quantum trajectory Monte Carlo method. JETP Letters, 2014, 100, 16-23.	1.1	34
12	Correlation properties of FeAs-based superconductors: Quantum trajectory Monte Carlo method. JETP Letters, 2014, 100, 16-23.	0.4	8
13	The growth of 122 and 11 iron-based superconductor single crystals and the influence of doping. Superconductor Science and Technology, 2014, 27, 103002.	1.8	19
14	Theory of two-magnon Raman scattering in alkaline iron selenide superconductors. Physica C: Superconductivity and Its Applications, 2014, 506, 76-82.	0.6	2
15	Electronic structure of ruthenium-doped iron chalcogenides. Journal of Applied Physics, 2014, 116, .	1.1	4
16	Two spatially separated phases in semiconducting $Rb_0.8Fe_{1.5}S_2$. Physical Review B, 2014, 90, .	1.1	19
17	Evolution of the Pauli spin-paramagnetic effect on the upper critical fields of single-crystalline $K_xFe_2ySe_2zS_z$. Physical Review B, 2014, 90, .	1.1	2
18	High-Pressure Single-Crystal Neutron Scattering Study of Magnetic and Fe Vacancy Orders in $(Tl,Rb)_2Fe_4Se_5$ Superconductor. Chinese Physics Letters, 2014, 31, 127401.	1.3	6

#	ARTICLE	IF	CITATIONS
19	Collective modes in multiband superconductors: Raman scattering in iron selenides. Physical Review B, 2014, 89, .	1.1	23
20	Possible way to turn MgFeGe into an iron-based superconductor. Physical Review B, 2014, 89, .	1.1	4
21	Magnetic phase diagram of a five-orbital Hubbard model in the real-space Hartree-Fock approximation varying the electronic density. Physical Review B, 2014, 89, .	1.1	21
22	Magnetotransport studies of FeSe under hydrostatic pressure. AIP Advances, 2014, 4, .	0.6	9
23	Magnetic states of the five-orbital Hubbard model for one-dimensional iron-based superconductors. Physical Review B, 2014, 90, .	1.1	18
24	Phonon and magnetic dimer excitations in Fe-based S=2 spin-ladder compound BaFe ₂ Se ₂ O. Physical Review B, 2014, 89, .	1.1	10
25	Iron-based high transition temperature superconductors. National Science Review, 2014, 1, 371-395.	4.6	167
26	Ground state, collective mode, phase soliton and vortex in multiband superconductors. Journal of Physics Condensed Matter, 2014, 26, 493202.	0.7	31
27	First principles study of the magnetic properties of LaOMnAs. Journal of Applied Physics, 2014, 115, 17D723.	1.1	10
28	Variational description of the ground state of the repulsive two-dimensional Hubbard model in terms of nonorthogonal symmetry-projected Slater determinants. Physical Review B, 2014, 90, .	1.1	11
29	Effect of the iron valence in the two types of layers in LiFeO_2 . Physical Review B, 2014, 90, .	1.1	4
30	Neutron Scattering Measurements of Spatially Anisotropic Magnetic Exchange Interactions in Semiconducting $\text{K}_{0.85}\text{Fe}_{1.54}\text{Se}_2$ ($T_N=280$ K). Physical Review Letters, 2014, 112, 177002.	2.9	17
31	Nonmetallic Low-Temperature Normal State of $\text{K}_{0.7}\text{Fe}_{1.46}\text{Se}_{1.85}\text{Te}_{0.15}$. Physical Review X, 2014, 4, .	2.8	4
32	Multireference symmetry-projected variational approximation for the ground state of the doped one-dimensional Hubbard model. Physical Review B, 2014, 89, .	1.1	7
33	Structure and composition of the superconducting phase in alkali iron selenide $\text{K}_x\text{Fe}_y\text{Se}_{1-y}$. Physical Review B, 2014, 89, .	1.1	34
34	Topological Phases in the Single-Layer FeSe. Physical Review X, 2014, 4, .	2.8	67
35	Doping- and pressure-induced change of electrical and magnetic properties in the Fe-based spin-ladder compound BaFe_2Se_3 . Physical Review B, 2014, 90, .	1.1	14
36	Magnetic Correlations and Pairing in the 1/5-Depleted Square Lattice Hubbard Model. Physical Review Letters, 2014, 113, 106402.	2.9	12

#	ARTICLE	IF	CITATIONS
55	High-Temperature Superconductors. Experimental Methods in the Physical Sciences, 2015, , 145-201.	0.1	1
56	Spin waves and spatially anisotropic exchange interactions in the antiferromagnet $S_{\text{Rb}} = 2 < \text{Rb} > 0.8$	1.1	10
57	Ab initio downfolding study of the iron-based ladder superconductor BaFe_2S_3	1.1	28
58	Electronic properties in Fe ladder compound BaFe_2S_3	1.1	31
59	Electronic structure and magnetism of K-intercalated iron chalcogenides. Physical Review B, 2015, 92, .	1.1	3
60	Isotropic in-plane quenched disorder and dilution induce a robust nematic state in electron-doped pnictides. Physical Review B, 2015, 92, .	1.1	8
61	Mott localization in a pure stripe antiferromagnet $S_{\text{Rb}} = 2 < \text{Rb} > 1 < \text{Rb} > 1$	1.1	12
62	Robustness of superconductivity to structural disorder in $\text{Sr}_{1-x}\text{Ca}_x\text{Fe}_2\text{S}_3$	1.1	10
63	Effects of stoichiometry and substitution in quasi-one-dimensional iron chalcogenide BaFe_2S_3 . Physical Review B, 2015, 92, .	1.1	29
64	Parallelized traveling cluster approximation to study numerically spin-fermion models on large lattices. Physical Review E, 2015, 91, 063303.	0.8	19
65	Pressure-Induced Mott Transition Followed by a 24-K Superconducting Phase in BaFe_2S_3	1.1	12
66	Temperature and composition phase diagram in the iron-based ladder compounds $\text{Ba}_{1-x}\text{Ca}_x\text{Fe}_2\text{S}_3$	1.1	10
67	Resonant inelastic x-ray scattering study of electronic excitations in insulating $\text{K}_{0.83}\text{FeS}_2$	1.1	6
69	Synthesis and Characterization of Frustrated Spin Ladders $\text{SrFe}_2\text{S}_3\text{O}$ and $\text{SrFe}_2\text{Se}_2\text{O}$. European Journal of Inorganic Chemistry, 2015, 2015, 2982-2988.	1.0	15
70	Pair correlation functions of FeAs-based superconductors: Quantum Monte Carlo study. Journal of Physics: Conference Series, 2015, 574, 012090.	0.3	0
72	Multiferroic materials and magnetoelectric physics: symmetry, entanglement, excitation, and topology. Advances in Physics, 2015, 64, 519-626.	35.9	661
73	Correlation Properties and Band Structure of FeAs-based Superconductors. Physics Procedia, 2015, 65, 21-24.	1.2	3
74	Antiferromagnetic order and spin dynamics in iron-based superconductors. Reviews of Modern Physics, 2015, 87, 855-896.	16.4	560

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75	Band Structure of FeAs-based Superconductors. <i>Physics Procedia</i> , 2015, 71, 379-383.	1.2	3
76	Phase Diagram of $(\text{Li}_{1-x}\text{Fe}_x)\text{OHFeSe}$: A Bridge between Iron Selenide and Arsenide Superconductors. <i>Journal of the American Chemical Society</i> , 2015, 137, 66-69.	6.6	86
77	Optimal interlayer hopping and high temperature Bose-Einstein condensation of local pairs in quasi 2D superconductors. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 075602.	0.7	4
78	Phase transitions in classical biquadratic Heisenberg model for strained iron pnictides. <i>Journal of Applied Physics</i> , 2015, 117, 17E302.	1.1	2
79	Unified picture of the doping dependence of superconducting transition temperatures in alkali metal/ammonia intercalated FeSe. <i>Physical Review B</i> , 2015, 91, .	1.1	55
80	Antiferromagnetic ground state with pair-checkerboard order in FeSe. <i>Physical Review B</i> , 2015, 91, .	1.1	59
81	Enhanced nematic and antiferromagnetic phases in the spin-fermion model for strained iron pnictides. <i>New Journal of Physics</i> , 2015, 17, 013011.	1.2	6
82	Block Magnetic Excitations in the Orbital Selective Mott Insulator BaFe_2Se_5 . <i>Physical Review Letters</i> , 2015, 115, 047401.	2.9	56
83	Fe-vacancy ordering in superconducting KFe_2Se_2 : first-principles calculations and Monte Carlo simulations. <i>Superconductor Science and Technology</i> , 2015, 28, 095004.	1.8	0
84	Pressure-induced superconductivity in the iron-based ladder material BaFe_2S_3 . <i>Nature Materials</i> , 2015, 14, 1008-1012.	13.3	165
85	An overview of the Fe-chalcogenide superconductors. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 323001.	1.3	23
86	Electronic structure and superconductivity of FeSe-related superconductors. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 183201.	0.7	71
87	PdTe: a 4.5 K type-II BCS superconductor. <i>Superconductor Science and Technology</i> , 2015, 28, 055008.	1.8	23
88	Iron-based superconductors: Current status of materials and pairing mechanism. <i>Physica C: Superconductivity and Its Applications</i> , 2015, 514, 399-422.	0.6	326
89	Infinitely Adaptive Transition Metal Oxichalcogenides: The Modulated Structures of $\text{Ce}_2\text{O}_2\text{MnSe}_2$ and $(\text{Ce}_{0.78}\text{La}_{0.22})_2\text{O}_2\text{MnSe}_2$. <i>Chemistry of Materials</i> , 2015, 27, 3121-3134.	3.2	14
90	Search for Fe magnetic ordering in the 40ÅK superconductor $(\text{Li}_{0.8}\text{Fe}_{0.2})\text{OHFeSe}$. <i>Journal of Alloys and Compounds</i> , 2015, 652, 470-478.	2.8	8
91	Disordered Fe vacancies and superconductivity in potassium-intercalated iron selenide $(\text{K}_{2x}\text{Fe}_{4-y})\text{TlETQqO}$. <i>Journal of Applied Physics</i> , 2015, 117, 074301.	0.7	17
92	Lattice dynamics of BaFe_2Se_5 . <i>Physical Review B</i> , 2015, 91, .	1.1	11

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93	New classes of integrals inherent in the mathematical structure of extended equations describing superconducting systems. International Journal of Modern Physics B, 2015, 29, 1550117.	1.0	3
94	Random exchange interaction effects on the phase transitions in frustrated classical Heisenberg model. Journal of Applied Physics, 2015, 118, 013901.	1.1	2
95	Superconductivity in pressurized $\text{Rb}_{0.8}\text{Fe}_2\text{Se}_2\text{Te}_x$. New Journal of Physics, 2015, 17, 073021.	1.2	5
96	Restoration of density of states for FeAs-based superconductors. Journal of Physics: Conference Series, 2016, 747, 012035.	0.3	0
97	Momentum distribution of occupation numbers in FeAs-based superconductors. Journal of Physics: Conference Series, 2016, 738, 012020.	0.3	0
98	Two types of superconducting domes in unconventional superconductors. New Journal of Physics, 2016, 18, 103033.	1.2	17
99	Temperature dependent local atomic displacements in ammonia intercalated iron selenide superconductor. Scientific Reports, 2016, 6, 27646.	1.6	15
100	Interplay Between Conducting and Magnetic Systems in the Antiferromagnetic Organic Superconductor $\text{I}^{\text{B}}\text{-(BETS)}_2\text{FeBr}_4$. Journal of Superconductivity and Novel Magnetism, 2016, 29, 3075-3080.	0.8	6
101	Momentum distribution and non-Fermi-liquid behavior in low-doped two-orbital model: Finite-size cluster quantum Monte Carlo approach. Physical Review B, 2016, 94, .	1.1	4
102	Phase separation in iron chalcogenide superconductor $\text{Rb}_{0.8+x}\text{Fe}_{1.6+y}\text{Se}_2\text{As}$ seen by Raman light scattering and band structure calculations. Low Temperature Physics, 2016, 42, 491-504.	0.2	0
103	“Break-junction” technique in application to layered superconductors (Review Article). Low Temperature Physics, 2016, 42, 1008-1027.	0.2	33
104	The 45 K Onset Superconductivity and the Suppression of the Nematic Order in FeSe by Electrolyte Gating. Chinese Physics Letters, 2016, 33, 057401.	1.3	7
105	Origin of Pressure-induced Superconducting Phase in KxFe_2Se_2 studied by Synchrotron X-ray Diffraction and Spectroscopy. Scientific Reports, 2016, 6, 30946.	1.6	16
106	Aspects of electron-phonon interactions with strong forward scattering in FeSe Thin Films on SrTiO_3 substrates. Superconductor Science and Technology, 2016, 29, 054009.	1.8	33
107	Origin of the Higher- T_c Phase in the KxFe_2Se_2 System. Journal of the Physical Society of Japan, 2016, 85, 044710.	0.7	12
108	Crystal Growth and Characterization of Iron-Based Superconductor. Springer Series in Materials Science, 2016, , 143-191.	0.4	0
109	Metallic behavior induced by potassium doping of the trigonal antiferromagnetic insulator EuMn_2As_2 . Physical Review B, 2016, 94, .	1.1	13
110	Pressure dependence of the electronic structure of $4f$ and $3d$ electron systems studied by X-ray emission spectroscopy. High Pressure Research, 2016, 36, 262-274.	0.4	19

#	ARTICLE	IF	CITATIONS
111	The magnetic and electronic properties of oxyselenides— influence of transition metal ions and lanthanides. Journal of Physics Condensed Matter, 2016, 28, 453001.	0.7	20
112	Three-dimensional Hubbard model in the thermodynamic limit. Physical Review B, 2016, 94, .	1.1	15
113	Raman spectroscopy of $KxCo_2ySe_2$ single crystals near the ferromagnetic—paramagnet transition. Journal of Physics Condensed Matter, 2016, 28, 485401.	0.7	4
114	Iron Telluride-Decorated Reduced Graphene Oxide Hybrid Microspheres as Anode Materials with Improved Na-Ion Storage Properties. ACS Applied Materials & Interfaces, 2016, 8, 21343-21349.	4.0	71
115	Understanding Doping, Vacancy, Lattice Stability, and Superconductivity in $KxFe_2ySe_2$. Advanced Science, 2016, 3, 1600098.	5.6	25
116	Magnetic excitation spectra of strongly correlated quasi-one-dimensional systems: Heisenberg versus Hubbard-like behavior. Physical Review B, 2016, 94, .	1.1	13
117	Magnetic properties and pairing tendencies of the iron-based superconducting ladder $BaFe_2S_3$: Combined <i>ab initio</i> and density matrix renormalization group study. Physical Review B, 2016, 94, .	1.1	35
118	Strong magnetic correlations to 900 K in single crystals of the trigonal antiferromagnetic insulators $SrMn_2O_7$ and $CaMn_2O_7$. Physical Review B, 2016, 94, .	1.1	13
119	Block antiferromagnetism and possible ferroelectricity in KFe_2Se_2 . Physica Status Solidi - Rapid Research Letters, 2016, 10, 757-761.	1.2	6
120	Anisotropic Upper Critical Field of Iron-Based Superconductors. Journal of Low Temperature Physics, 2016, 184, 1030-1041.	0.6	0
121	Topological nonsymmorphic crystalline superconductors. Physical Review B, 2016, 93, .	1.1	27
122	Giant biquadratic interaction-induced magnetic anisotropy in the iron-based superconductor $A_xF_yS_3$. Physical Review B, 2016, 93, .	1.1	13
123	Formation mechanism of superconducting phase and its three-dimensional architecture in pseudo-single-crystal $KxFe_2ySe_2$. Physical Review B, 2016, 93, .	1.1	16
124	Elucidating the magnetic and superconducting phases in the alkali metal intercalated iron chalcogenides. Physical Review B, 2016, 93, .	1.1	9
125	Orbital selective directional conductor in the two-orbital Hubbard model. Physical Review B, 2016, 93, .	1.1	5
126	Phase transitions in a frustrated biquadratic Heisenberg model with coupled orbital degrees of freedom for iron-based superconductors. Physical Review B, 2016, 93, .	1.1	5
127	Non-Fermi-liquid behavior from partial nesting in multiorbital superconductors. Physical Review B, 2016, 93, .	1.1	1
128	Role of further-neighbor interactions in modulating the critical behavior of the Ising model with frustration. Physical Review E, 2016, 93, 032114.	0.8	14

#	ARTICLE	IF	CITATIONS
129	Orbital-selective Mott phases of a one-dimensional three-orbital Hubbard model studied using computational techniques. <i>Physical Review E</i> , 2016, 93, 063313.	0.8	13
130	Transition from Sign-Reversed to Sign-Preserved Cooper-Pairing Symmetry in Sulfur-Doped Iron Selenide Superconductors. <i>Physical Review Letters</i> , 2016, 116, 197004.	2.9	19
131	Magnetic properties of the covalent chain antiferromagnet RbFeSe_2 . <i>Physical Review B</i> , 2016, 94, .	1.6	15
132	Single-Phase Type-II Multiferroics. <i>Series in Materials Science and Engineering</i> , 2016, , 99-137.	0.1	0
133	Identifying the genes of unconventional high temperature superconductors. <i>Science Bulletin</i> , 2016, 61, 561-569.	4.3	33
134	Robustness of s-wave pairing symmetry in iron-based superconductors and its implications for fundamentals of magnetically driven high-temperature superconductivity. <i>Frontiers of Physics</i> , 2016, 11, 1.	2.4	13
135	Electron density of states of Fe-based superconductors: Quantum trajectory Monte Carlo method. <i>JETP Letters</i> , 2016, 103, 334-340.	0.4	4
136	Thermoelectric properties of iron-based superconductors and parent compounds. <i>Superconductor Science and Technology</i> , 2016, 29, 073002.	1.8	26
137	Common electronic origin of superconductivity in $(\text{Li,Fe})\text{OHFeSe}$ bulk superconductor and single-layer FeSe/SrTiO_3 films. <i>Nature Communications</i> , 2016, 7, 10608.	5.8	164
138	Magnetic order driven by orbital ordering in the semiconducting $\text{KFe}_1.5\text{Se}_2$. <i>Frontiers of Physics</i> , 2016, 11, 1.	2.4	0
139	Slow In-Plane Magnetoresistance Oscillations in Multiband Quasi-Two-Dimensional Metals. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 1127-1132.	0.8	2
140	Structure and superconductivity of $(\text{Li}_{1-x}\text{Fe}_x)\text{OHFeSe}$ single crystals grown using $(\text{A}_{1-x}\text{Fe}_x)_2\text{Se}_3$ ($\text{A} = \text{K, Tl, Bi, Sb, As}$).	0.3	0
141	Magnetic interactions in iron superconductors: A review. <i>Comptes Rendus Physique</i> , 2016, 17, 36-59.	0.3	60
142	Spin fluctuations in iron pnictides and chalcogenides: From antiferromagnetism to superconductivity. <i>Comptes Rendus Physique</i> , 2016, 17, 60-89.	0.3	79
143	Local microscopic properties and annealing effect of $\text{Rb}_0.85\text{Fe}_{1.9}\text{Se}_2$ single crystals. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 145604.	0.7	0
144	A possible new family of unconventional high temperature superconductors. <i>Science Bulletin</i> , 2017, 62, 212-217.	4.3	15
145	Mean-field state population study for iron-based superconductors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 808-812.	0.9	0
146	Magnetic Lifshitz transition and its consequences in multi-band iron-based superconductors. <i>Scientific Reports</i> , 2017, 7, 41979.	1.6	30

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147	Order parameter fluctuation and ordering competition in $\text{Ba}_{1-x}\text{KxFe}_2\text{As}_2$. <i>Physical Review B</i> , 2017, 95, .	1.1	13
148	On the Coexistence of Superconductivity and Magnetic Ordering in Unconventional Superconductors. <i>Brazilian Journal of Physics</i> , 2017, 47, 151-156.	0.7	0
149	High-temperature superconductivity in one-unit-cell FeSe films. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 153001.	0.7	50
150	The upper critical field and its anisotropy in $(\text{Li}_{1-x}\text{Fe}_x\text{OHFe})\text{OHFe}_{1-y}\text{Se}$. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 025701.	0.7	14
151	Photoemission of quantum materials. <i>Nature Physics</i> , 2017, 13, 1029-1033.	6.5	25
152	Unified Phase Diagram for Iron-Based Superconductors. <i>Physical Review Letters</i> , 2017, 119, 157001.	2.9	40
153	Phonon spectra in the parent superconducting iron-tuned telluride Fe_{1+x}Te from inelastic neutron scattering and ab initio calculations. <i>Physical Review B</i> , 2017, 96, .	1.1	2
154	Magnetic properties of chain antiferromagnets RbFeSe_2 , TlFeSe_2 , and TlFeS_2 . <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017, 81, 885-887.	0.1	7
155	Suppression of the antiferromagnetic order when approaching the superconducting state in a phase-separated crystal of $\text{KxFe}_2\text{a}^y\text{Se}_2$. <i>Physical Review B</i> , 2017, 96, .	1.1	2
156	Direct observation of microstructures on superconducting single crystals of $\text{KxFe}_2\text{a}^y\text{Se}_2$. <i>Applied Physics Express</i> , 2017, 10, 023101.	1.1	8
157	Phase-Separation Control of $\text{KxFe}_2\text{a}^y\text{Se}_2$ Superconductor through Rapid-Quenching Process. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 043703.	0.7	2
158	anomalous magnetic structure and electronic nematicity in the doped manganese $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$. <i>Physical Review B</i> , 2017, 96, .	1.1	6
159	Itinerant G-type antiferromagnetic order in $\text{SrCr}_{1-x}\text{La}_x\text{Fe}_2\text{As}_2$. <i>Physical Review B</i> , 2017, 96, .	1.1	1
160	Cryogenic Fab-on-a-Chip Sticks the Landing. <i>ACS Nano</i> , 2017, 11, 8707-8716.	7.3	4
161	High-T _c superconducting phases in organic molecular intercalated iron selenides: synthesis and crystal structures. <i>Chemical Communications</i> , 2017, 53, 9729-9732.	2.2	39
162	Pairing tendencies in a two-orbital Hubbard model in one dimension. <i>Physical Review B</i> , 2017, 96, .	1.1	24
163	Structure of spin excitations in heavily electron-doped $\text{Li}_{0.8}\text{Fe}_{0.2}\text{ODFeSe}$ superconductors. <i>Nature Communications</i> , 2017, 8, 123.	5.8	33
164	Possible bicollinear nematic state with monoclinic lattice distortions in iron telluride compounds. <i>Physical Review B</i> , 2017, 96, .	1.1	9

#	ARTICLE	IF	CITATIONS
165	Small influence of magnetic ordering on lattice dynamics in TaFe _{1.25} Te ₃ . Physical Review B, 2017, 96, .	1.1	3
166	Pressure-driven phase transition from antiferromagnetic semiconductor to nonmagnetic metal in the two-leg ladders $A_{x-1}Fe_xM_2O_{10}$		

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183	Vibrational properties and magnetic specific heat of the covalent chain antiferromagnet RbFeSe ₂ . Physical Review B, 2018, 98, .	1.1	5
184	Kinetic approach to superconductivity hidden behind a competing order. Science Advances, 2018, 4, eaau3489.	4.7	21
185	Study of magnetic, nematic and superconducting properties of iron-based high-temperature superconductors: Variational cluster approximation. AIP Conference Proceedings, 2018, , .	0.3	0
186	Spin dynamics of the block orbital-selective Mott phase. Nature Communications, 2018, 9, 3736.	5.8	36
187	Interplay between nematic fluctuation and superconductivity in a two-orbital Hubbard model: a quantum Monte Carlo study. Journal of Physics Condensed Matter, 2018, 30, 445604.	0.7	2
188	Low temperature thermoelectric and magnetoresistive properties of Tl ₂ Cu ₃ FeQ ₄ (Q = S, Se, Te). Inorganic Chemistry Frontiers, 2018, 5, 1553-1562.	3.0	3
189	Phase competition in a one-dimensional three-orbital Hubbard-Holstein model. Physical Review B, 2018, 97, .	1.1	8
190	Calculation of Density of States for Iron-based Superconductors. Crystallography Reports, 2019, 64, 297-300.	0.1	0
191	Novel Magnetic Block States in Low-Dimensional Iron-Based Superconductors. Physical Review Letters, 2019, 123, 027203.	2.9	31
192	Phase Diagrams and Electromagnetic Properties of s-wave Superconductivity of the Extended Hubbard Model with the Attractive Pair-Hopping Interaction. Journal of Superconductivity and Novel Magnetism, 2019, 32, 1951-1966.	0.8	1
193	Intercalating Anions between Terminated Anion Layers: Unusual Ionic Se Bonds and Hole-Doping Induced Superconductivity in SO.24(NH3)0.26Fe2Se2. Journal of the American Chemical Society, 2019, 141, 13849-13857.	6.6	22
194	Mössbauer Spectroscopy Study of K _x Fe _{2-y} Se ₂ under Pressure. Journal of the Physical Society of Japan, 2019, 88, 124703.	0.7	0
195	Evolution of superconductivity in K _{2-x} Fe _{4+y} Se ₅ : Spectroscopic studies of X-ray absorption and emission. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22458-22463.	3.3	3
196	Large Magnon Contributions to Thermal Conductance in Quasi-One-Dimensional Fe-Based Ladder Compounds BaFe ₂ (S _{1-x} Se _x) ₃ . Physical Review Letters, 2019, 123, 086601.	2.9	7
197	Detecting Crystallographic Lattice Chirality using Resonant Inelastic X-ray Scattering. Scientific Reports, 2019, 9, 12771.	1.6	1
198	Fingerprints of an orbital-selective Mott phase in the block magnetic state of BaFe ₂ Se ₃ ladders. Communications Physics, 2019, 2, .	2.0	34
199	Symmetry of superconducting order parameter in minimal model of iron-based HTSC: variational cluster approximation. Journal of Physics: Conference Series, 2019, 1189, 012019.	0.3	0
200	Spin correlation in trigonal EuMn ₂ As ₂ . Physical Review B, 2019, 99, .	1.1	3

#	ARTICLE	IF	CITATIONS
201	Structural, electronic, and dynamical properties of the tetragonal and collapsed tetragonal phases of KFe_2As_2 . <i>Physical Review B</i> , 2019, 99, .	1.1	10
202	Robust block magnetism in the spin ladder compound $BaFe_2As_2$ under hydrostatic pressure. <i>Physical Review B</i> , 2019, 100, .	1.1	13
203	Non-Fermi-liquid types of behavior associated with a magnetic quantum critical point in $Sr_2Ru_1-xCo_xAs_2$. <i>Physical Review B</i> , 2019, 100, .	1.1	10
204	Temperature induced shift of electronic band structure in $Fe(Se,Te)$. <i>Low Temperature Physics</i> , 2019, 45, 1172-1177.	0.2	1
205	Nematic Energy Scale and the Missing Electron Pocket in $FeSe$. <i>Physical Review X</i> , 2019, 9, .	2.8	66
206	Magnetic states of iron-based two-leg ladder tellurides. <i>Physical Review B</i> , 2019, 100, .	1.1	20
207	Effective exchange interactions for bad metals and implications for iron-based superconductors. <i>Physical Review B</i> , 2019, 100, .	1.1	6
208	Effect of doping on electronic properties of compressed $BaFe_2Se_3$. <i>Materials Research Express</i> , 2019, 6, 016553.	0.8	1
209	Role of the extra Fe in $K_2^{x}Fe_{4+y}Se_5$ superconductors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1104-1109.	3.3	7
210	Electronic and Superconducting Properties of Some $FeSe$ -Based Single Crystals and Films Grown Hydrothermally. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	10
211	Prediction of exotic magnetic states in the alkali-metal quasi-one-dimensional iron selenide compound Na_2FeSe_2 . <i>Physical Review B</i> , 2020, 102, .	1.1	15
212	Superconductivity in Quantum Complex Matter: the Superstripes Landscape. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 2269-2277.	0.8	3
213	Fingerprint of checkerboard antiferromagnetic order in $FeSe$ monolayer due to magnetic-electric correlation. <i>Materials Today</i> , 2020, 41, 44-50.	8.3	3
214	High-Temperature Quantum Anomalous Hall Insulators in Lithium-Decorated Iron-Based Superconductor Materials. <i>Physical Review Letters</i> , 2020, 125, 086401.	2.9	46
215	Similarities and differences between nickelate and cuprate films grown on a $SrTiO_3$ substrate. <i>Physical Review B</i> , 2020, 102, .	1.1	3
216	Canted antiferromagnetism in the quasi-one-dimensional iron chalcogenide $BaFe_2Se_4$. <i>Physical Review B</i> , 2020, 102, .	1.1	9
217	Emergence of superconductivity in doped multiorbital Hubbard chains. <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	12
218	Emergence of orbital-selective marginal Fermi liquidness in compressed $RbFe_2Te_3$. <i>Physical Review B</i> , 2020, 101, .	1.1	1

#	ARTICLE	IF	CITATIONS
219	Structure, superconductivity, and magnetism in Sz . Physical Review B, 2020, 101, .	1.1	1
220	Structural, electrical, magnetic, and optical properties of iron-based ladder compounds $BaFe_2(S_{1-x}Se_x)_3$. Physical Review B, 2020, 102, .	1.1	4
221	Ferromagnetic cluster-glass phase in $Ca(Co_{1-x}R_x)_2As_2$ crystals. Physical Review B, 2020, 102, .	1.1	12
222	Iron-based superconductors: tales from the nuclei. Rivista Del Nuovo Cimento, 2020, 43, 1-43.	2.0	6
223	Spin orders and excitation in frustrated Heisenberg model with four-spin exchange interaction. Journal of Magnetism and Magnetic Materials, 2020, 508, 166872.	1.0	1
224	Pressure-induced collapse of large-moment magnetic order and localized-to-itinerant electronic transition in the host-guest compound Cs_6Cl . Physical Review B, 2020, 101, .	1.1	0
225	Iron telluride ladder compounds: Predicting the structural and magnetic properties of $BaFe_2Te_3$. Physical Review B, 2020, 101, .	1.1	20
226	Superconductivity from buckled-honeycomb-vacancy ordering. Science Bulletin, 2021, 66, 327-331.	4.3	1
227	Visualization of the electronic phase separation in superconducting $KxFe_2ySe_2$. Nano Research, 2021, 14, 823-828.	5.8	4
228	Searching for new unconventional high temperature superconductors. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 017101.	0.2	0
229	The First Principle Study of CuAgSe Subcells. Journal of Applied Mathematics and Physics, 2021, 09, 1549-1559.	0.2	0
230	Origin of the magnetic and orbital ordering in $\hat{\pm}Sr_2CrO_4$. Physical Review B, 2021, 103, .	1.1	13
231	Multiple insulating states due to the interplay of strong correlations and lattice geometry in a single-orbital Hubbard model. Physical Review B, 2021, 103, .	1.1	6
232	Orbital-selective nature of the electronic structure of the $ThFeAsN$ superconductor. Physical Review B, 2021, 103, .	1.1	0
233	Peierls transition, ferroelectricity, and spin-singlet formation in monolayer VOI_2 . Physical Review B, 2021, 103, .	1.1	1
234	Vortex-line topology in iron-based superconductors with and without second-order topology. Physical Review B, 2021, 103, .	1.1	25
235	Angle-resolved photoemission studies of quantum materials. Reviews of Modern Physics, 2021, 93, .	16.4	230
236	Orbital Selectivity in Electron Correlations and Superconducting Pairing of Iron-Based Superconductors. Frontiers in Physics, 2021, 9, .	1.0	16

#	ARTICLE	IF	CITATIONS
255	New progress of FeSe-based superconducting single crystals and films: Spin nematicity, electronic phase separation, and high critical parameters. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 207410.	0.2	1
256	Study of Simulation Cell Size in Mean-Field Studies of Interacting Lattice Models. Communications in Computational Physics, 2019, 25, .	0.7	0
257	Stoichiometry and defect superstructures in epitaxial FeSe films on SrTiO_3 . Physical Review Materials, 2020, 4, .	0.9	0
258	Emergent channel over a pair of pockets in strong density waves. Physical Review B, 2021, 104, .	1.1	1
259	Numerical transfer matrix study of frustrated next-nearest-neighbor Ising models on square lattices. Physical Review B, 2021, 104, .	1.1	6
260	Electric field-induced chiral $d + id$ superconductivity in AA-stacked bilayer graphene: a quantum Monte Carlo study. Journal of Physics Condensed Matter, 2021, 33, 025601.	0.7	1
261	High-temperature superconductivity in monolayer FeSe on SrTiO_3 and related systems mediated by low energy plasmons. Physical Review B, 2021, 104, .	1.1	3
262	Iron pnictides and chalcogenides: a new paradigm for superconductivity. Nature, 2022, 601, 35-44.	13.7	98
263	Prediction of orbital-selective Mott phases and block magnetic states in the quasi-one-dimensional iron chain CeO_2Fe . Physical Review B, 2022, 105, .	1.1	16
264	Theoretical study of the crystal and electronic properties of RuO_2 under hole and electron doping. Physical Review B, 2022, 105, .	1.1	16
265	Topological Superconductivity in an Extended s -Wave Superconductor and Its Implication to Iron-Based Superconductors. Physical Review X, 2022, 12, .	2.8	17
266	Pressure-Induced Superconductivity in Iron-Based Spin-Ladder Compound $\text{BaFe}_2\text{As}_2(\text{S}_{1-x}\text{Se}_x)_3$. Materials, 2022, 15, 1401.	1.3	2
267	Superior carrier tuning in ultrathin superconducting materials by electric-field gating. Nature Reviews Physics, 2022, 4, 336-352.	11.9	12
268	Strongly anisotropic electronic and magnetic structures in oxide dichlorides RuOCl_2 and OsOCl_2 . Physical Review B, 2022, 105, .	1.1	6
269	Coupled Hubbard ladders at weak coupling: Pairing and spin excitations. Physical Review B, 2022, 105, .	1.1	5
270	Electronic structure, magnetic properties, and pairing tendencies of the copper-based honeycomb lattice $\text{Na}_2\text{Co}_2\text{O}_7$. Physical Review B, 2022, 105, .	1.1	0
271	Epitaxial stabilization of an orthorhombic Mg-Ti-O superconductor. Physical Review B, 2022, 105, .	1.1	2
272	Quasi-uniaxial pressure induced superconductivity in the stoichiometric compound UTe_2X . Physical Review B, 2022, 106, .	1.1	2

#	ARTICLE	IF	CITATIONS
273	Frustrated magnetic interactions in FeSe. Physical Review B, 2022, 106, .	1.1	2
274	Dispersionless orbital excitations in (Li,Fe)OHFeSe superconductors. Npj Quantum Materials, 2022, 7, .	1.8	4
275	Field-induced spin nematic Tomonaga-Luttinger liquid of the $S=1$ spin ladder system with anisotropic ferromagnetic rung interaction. Physical Review B, 2022, 106, .	1.1	1
276	Incommensurate magnetic states induced by ordering competition in $Ba_{1-x}Na_xFe_2As_2$. Superconductor Science and Technology, 2022, 35, 125006.	1.8	1
277	Emergent normal-state Mottness in the infinite-layer $NdNiO_2$ superconductor. Physical Review Research, 2022, 4, .	1.1	1
278	The Materials Science of Modern Technical Superconducting Materials. Physics of Metals and Metallography, 2022, 123, 839-868.	0.3	3
279	Insights into the physical properties of newly synthesized AMn_2P_2 (A= Ca, Sr) via density functional theory. Physica B: Condensed Matter, 2023, 653, 414651.	1.3	1
280	Electronic structure, magnetic properties, spin orientation, and doping effect in Mn_2B . Physical Review B, 2023, 107, .	1.1	1
283	Major Research Achievements. , 2023, , 39-106.		0