

# Athena S Sefat

## List of Publications by Year in descending order

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257  
papers

11,445  
citations

30047

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33869

99  
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272  
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272  
docs citations

272  
times ranked

7392  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity at 22 K in Co-Doped $\text{BaFe}_2\text{As}_2$ . Physical Review Letters, 2008, 101, 117004.	2.9	198
2	Two-band superconductivity in $\text{LaFeAsO}_{0.89}\text{F}_{0.11}$ at very high magnetic fields. Nature, 2008, 453, 903-905.	13.7	490
3	Bulk superconductivity at 14 K in single crystals of $\text{FeAsO}$ . Physical Review B, 2009, 79, .	1.1	397
4	Small anisotropy, weak thermal fluctuations, and high field superconductivity in Co-doped iron pnictide $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ . Applied Physics Letters, 2009, 94, .	1.5	337
5	Effects of Nematic Fluctuations on the Elastic Properties of Iron Arsenide Superconductors. Physical Review Letters, 2010, 105, 157003.	2.9	318
6	Superconductivity in $\text{LaFeAsO}$ . Physical Review B, 2008, 78, .	1.1	305
7	Phase transitions in $\text{LaFeAsO}$ : Structural, magnetic, elastic, and transport properties, heat capacity and Mössbauer spectra. Physical Review B, 2008, 78, .	1.1	284
8	New Fe-based superconductors: properties relevant for applications. Superconductor Science and Technology, 2010, 23, 034003.	1.8	253
9	Two-dimensional resonant magnetic excitation in $\text{BaFe}_2\text{CoAs}_2$ . Physical Review Letters, 2009, 102, 107005.	2.9	237
10	Contrasting Spin Dynamics between Underdoped and Overdoped $\text{Ba}_x\text{Fe}_{1-x}\text{As}_2$ . Physical Review Letters, 2010, 104, 037001.	2.9	234
11	Electronic correlations in the superconductor $\text{LaFeAsO}_{0.89}\text{F}_{0.11}$ . Physical Review Letters, 2010, 104, 037001.	1.1	214
12	Modification of Ni-Rich FCG NMC and NCA Cathodes by Atomic Layer Deposition: Preventing Surface Phase Transitions for High-Voltage Lithium-Ion Batteries. Scientific Reports, 2016, 6, 26532.	1.6	196
13	Spin Susceptibility, Phase Diagram, and Quantum Criticality in the Electron-Doped High $T_c$ Superconductor $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ . Journal of the Physical Society of Japan, 2009, 78, 013711.	0.7	159
14	Evolution of spin excitations into the superconducting state in $\text{FeTe}_{1-x}\text{Sex}$ . Nature Physics, 2010, 6, 182-186.	6.5	151
15	Static and Dynamic Magnetism in Underdoped Superconductor $\text{BaFe}_2\text{CoAs}_2$ . Physical Review Letters, 2009, 103, 087002.	2.9	150
16	Investigating phase transformation in the $\text{Li}_{1.2}\text{Co}_{0.1}\text{Mn}_{0.55}\text{Ni}_{0.15}\text{O}_2$ lithium-ion battery cathode during high-voltage hold (4.5 V) via magnetic, X-ray diffraction and electron microscopy studies. Journal of Materials Chemistry A, 2013, 1, 6249.	5.2	125
17	Comparative high-field magnetotransport of the oxypnictide superconductors $\text{RFeAsO}_{1-x}\text{Fx}$ (R=La, Nd) and $\text{SmFeAsO}_{1-x}\text{F}_x$ . Physical Review B, 2008, 78, .	1.1	121
18	$^{57}\text{Fe}$ NMR investigation of the iron pnictide superconductor $\text{LaFeAsO}_{0.89}\text{F}_{0.11}$ . Physical Review B, 2008, 78, .	1.1	120

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19	Anisotropy of the Upper Critical Field in a Co-Doped BaFe <sub>2</sub> As <sub>2</sub> Single Crystal. Journal of the Physical Society of Japan, 2009, 78, 084719.	0.7	117
20	Reversible Lithium Uptake by FeP <sub>2</sub> . Electrochemical and Solid-State Letters, 2003, 6, A162.	2.2	115
21	Polyferrocenylsilane Microspheres: Synthesis, Mechanism of Formation, Size and Charge Tunability, Electrostatic Self-Assembly, and Pyrolysis to Spherical Magnetic Ceramic Particles. Journal of the American Chemical Society, 2002, 124, 12522-12534.	6.6	112
22	Electronic structure and magnetism in $BaMn_2$ . Physical Review B, 2009, 79, 074411.	1.1	112
23	Renormalized behavior and proximity of a magnetic quantum critical point. Physical Review B, 2009, 79, 074411.	1.1	110
24	Influence of the rare-earth element on the effects of the structural and magnetic phase transitions in CeFeAsO, PrFeAsO and NdFeAsO. New Journal of Physics, 2009, 11, 025011.	1.2	109
25	Correlating cation ordering and voltage fade in a lithium manganese-rich lithium-ion battery cathode oxide: a joint magnetic susceptibility and TEM study. Physical Chemistry Chemical Physics, 2013, 15, 19496.	1.3	108
26	Evidence for Strong Itinerant Spin Fluctuations in the Normal State of $CeFeAsO_{1-x}F_x$ . Physical Review Letters, 2008, 101, 267001.	2.0	106
27	Absence of superconductivity in hole-doped $BaFe_2As_2$ crystals. Physical Review B, 2009, 79, 074411.	1.1	101
28	Structure and anisotropic properties of $BaFe_2As_2$ .		

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37	Anomalous compressibility effects and superconductivity of $\text{EuFe}_2\text{As}_2$ under high pressures. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 292202.	0.7	73
38	NMR Search for the Spin Nematic State in a $\text{LaFeAsO}$ Single Crystal. <i>Physical Review Letters</i> , 2012, 109, 247001.	2.9	73
39	Materials Chemistry of $\text{BaFe}_2\text{As}_2$ : A Model Platform for Unconventional Superconductivity. <i>Chemistry of Materials</i> , 2010, 22, 715-723. Competing magnetic ground states in nonsuperconducting $\text{Ba}(\text{Tl})\text{Fe}_2\text{As}_2$ . <i>Physical Review Letters</i> , 2012, 108, 147002.	3.2	72
40	Electronic Correlations and Unconventional Spectral Weight Transfers in the High-Temperature Pnictide $\text{BaFe}_2\text{As}_2$ . <i>Physical Review Letters</i> , 2012, 108, 147002.	1.1	69
41	Collapsed tetragonal phase and superconductivity of $\text{BaFe}_2\text{As}_2$ at high pressure. <i>Physical Review B</i> , 2010, 82, 154511.	2.9	69
42	Phonon Density of States of $\text{LaFeAsO}$ . <i>Physical Review Letters</i> , 2008, 101, 157004.	1.1	66
43	Infrared Measurement of the Pseudogap of P-Doped and Co-Doped High-Temperature Superconductor $\text{LaO}_{0.89}\text{F}_{0.11}\text{FeAs}$ . <i>Applied Physics Letters</i> , 2008, 92, 252501.	2.9	64
44	Itinerant antiferromagnetism in $\text{BaCr}_2\text{As}_2$ . Experimental characterization and electronic structure calculations. <i>Physical Review B</i> , 2009, 79, .	2.9	63
45	Polyferrocenylsilane and Magnetic Ceramic Microspheres. <i>Advanced Materials</i> , 2001, 13, 732-736.	11.1	62
46	Unusual Relationship between Magnetism and Superconductivity in $\text{FeTe}_{0.5}\text{Se}_{0.5}$ . <i>Physical Review Letters</i> , 2010, 104, 187002.	2.9	62
47	Evidence for electromagnetic granularity in the polycrystalline iron-based superconductor $\text{LaO}_{0.89}\text{F}_{0.11}\text{FeAs}$ . <i>Applied Physics Letters</i> , 2008, 92, 252501.	1.5	59
48	Surface Geometric and Electronic Structures of $\text{BaFe}_2\text{As}_2$ . <i>Physical Review B</i> , 2010, 81, .	1.1	58
49	Doping-dependent specific heat study of the superconducting gap in one-dimensional $\text{BaFe}_2\text{As}_2$ crystals. <i>Physical Review B</i> , 2011, 84, .	1.1	58
50	Phonons in doped and undoped $\text{BaFe}_2\text{As}_2$ by inelastic x-ray scattering. <i>Physical Review B</i> , 2009, 80, .	2.9	57
51	$\text{Ni}_2\text{X}_2$ (X=pnictide, chalcogenide, or B) based superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 396-403.	0.6	56

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55	Field-induced magnetic transition and spin fluctuations in the quantum spin-liquid candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CsYbSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2019, 100, .	1.1	56

56	Variation of the magnetic ordering inGdT <sub>2</sub> Zn <sub>20</sub> (T=Fe, Ru, Os, Co, Rh and Ir) and its correlation with the electronic structure of isostructuralYT <sub>2</sub> Zn <sub>20</sub> . Physical Review B, 2008, 77, .	1.1	53
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73	Interlayer Coherence and Superconducting Condensate in the $c$ -Axis Response of Optimally Doped $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ High-T $_c$ Superconductor Using Infrared Spectroscopy. Physical Review Letters, 2013, 110, 097003.	2.9	39
74	Electronic phase diagram of the iron-based high- $T_c$ superconductor $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ . Physical Review Letters, 2013, 110, 097003.		

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91	Decoupled spin dynamics in the rare-earth orthoferrite $\text{YbFeO}_3$ : Evolution of magnetic excitations through the spin-reorientation transition. Physical Review B, 2018, 98	1.1	31
92	Phonon splitting and anomalous enhancement of infrared-active modes in $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2011, 84, .	1.1	30
93	Resolving the degradation pathways in high-voltage oxides for high-energy-density lithium-ion batteries; Alternation in chemistry, composition and crystal structures. Nano Energy, 2017, 36, 76-84.	8.2	30
94	A semimetal model of the normal state magnetic susceptibility and transport properties of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ . Physica C: Superconductivity and Its Applications, 2010, 470, 304-308.	0.6	29
95	Formation of collapsed tetragonal phase in $\text{EuCo}_2\text{As}_2$ under high pressure. Journal of Physics Condensed Matter, 2010, 22, 425701.	0.7	28
96	Magnetism and Disorder Effects on Muon Spin Rotation Measurements of the Magnetic Penetration Depth in Iron-Arsenic Superconductors. Physical Review Letters, 2011, 106, 127002.	2.9	28
97	Electronic structure of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ . <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a>		

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109	Anderson-Mott transition induced by hole doping in Nd <sub>1-x</sub> TiO <sub>3</sub> . Physical Review B, 2006, 74, . Evolution of antiferromagnetic susceptibility under uniaxial pressure in Ba(Tl <sub>1-x</sub> Bi <sub>x</sub> ) <sub>2</sub> FeAs <sub>2</sub> single crystals. Physical Review B, 2010, 81, .	1.1	23
110	Enhancement of the critical current density by increasing the collective pinning energy in heavy ion irradiated Co-doped BaFe <sub>2</sub> As <sub>2</sub> single crystals. Superconductor Science and Technology, 2015, 28, 055011.	1.1	23
111	Orbital symmetry of Ba <sub>1-x</sub> Bi <sub>x</sub> FeAs <sub>2</sub> single crystals. Physical Review B, 2010, 81, .	1.8	23
112	Orbital symmetry of Ba <sub>1-x</sub> Bi <sub>x</sub> FeAs <sub>2</sub> single crystals. Physical Review B, 2010, 81, .	1.1	22
113	Physical Review B, 2011, 84, .	1.1	22
114	Metallic properties of Ba <sub>2</sub> Cu <sub>3</sub> P <sub>4</sub> and BaCu <sub>2</sub> Pn <sub>2</sub> (Pn=As, Sb). Journal of Solid State Chemistry, 2012, 191, 213-219.	1.4	22
115	Coupling of structure to magnetic and superconducting orders in quasi-one-dimensional KCr <sub>3</sub> FeAs <sub>3</sub> . Physical Review B, 2017, 96, .	1.1	22
116	Unusual phase transitions and magnetoelastic coupling in TlFe <sub>1.6</sub> Se <sub>2</sub> single crystals. Physical Review B, 2011, 83, .	1.1	21
117	Infrared pseudogap in cuprate and pnictide high-temperature superconductors. Physical Review B, 2014, 90, .	1.1	21
118	Deep data mining in a real space: separation of intertwined electronic responses in a lightly doped BaFe <sub>2</sub> As <sub>2</sub> . Nanotechnology, 2016, 27, 475706.	1.3	21
119	Magnetization, resistivity and heat capacity of the anisotropic RV <sub>2</sub> Sb <sub>3</sub> crystals (R=La, Nd, Sm, Gd, Dy). Journal of Magnetism and Magnetic Materials, 2008, 320, 120-141.	1.0	20
120	Experimental and Computational Investigation of the Polar Ferrimagnet VOSe <sub>2</sub> O <sub>5</sub> . Chemistry of Materials, 2010, 22, 5074-5083.	3.2	20
121	Point-contact spectroscopic studies on normal and superconducting AF <sub>2</sub> As <sub>2</sub> -type iron pnictide single crystals. Superconductor Science and Technology, 2010, 23, 054009.	1.8	20
122	Cu Substitution Effects on the Local Magnetic Properties of Ba(Fe <sub>1-x</sub> Cu <sub>x</sub> ) <sub>2</sub> As <sub>2</sub> : A Site-Selective <sup>75</sup> As and <sup>63</sup> Cu NMR Study. Physical Review Letters, 2014, 113, 117001.	2.9	20
123	Crystal-field Hamiltonian and anisotropy in KErSe <sub>2</sub> and CsErSe <sub>2</sub> . Physical Review B, 2020, 101, .	1.1	20
124	Direct measurement of the magnetic penetration depth by magnetic force microscopy. Superconductor Science and Technology, 2012, 25, 112001.	1.8	19
125	Crystal growth, structures, magnetic and photoluminescent properties of NaLnGeO <sub>4</sub> (Ln=Sm, Eu, Gd). Physical Review B, 2014, 89, 040401.	1.5	19
126	Temperature and pressure dependence of the Fe-specific phonon density of states in Ba <sub>1-x</sub> Bi <sub>x</sub> FeAs <sub>2</sub> . Physical Review B, 2010, 81, .	1.1	18



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127	Variation of physical properties in the nominal Sr <sub>4</sub> V <sub>2</sub> O <sub>6</sub> Fe <sub>2</sub> As <sub>2</sub> . Physica C: Superconductivity and Its Applications, 2011, 471, 143-149.	0.6	18
128	Local crystallography analysis for atomically resolved scanning tunneling microscopy images. Nanotechnology, 2013, 24, 415707.	1.3	18
129	A New Magnetically Ordered Polymorph of CuMoO <sub>4</sub> : Synthesis and Characterization of $\mu$ -CuMoO <sub>4</sub> . Chemistry of Materials, 2008, 20, 3785-3787.	3.2	17
130	New correlated electron physics from new materials. Physica B: Condensed Matter, 2009, 404, 2924-2929.	1.3	17
131	Critical behavior of the spin density wave transition in underdoped $\text{La}_{1-x}\text{Ce}_x\text{CuO}_2$		

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145	Structural phase transitions in EuFe <sub>2</sub> As <sub>2</sub> superconductor at low temperatures and high pressures. Journal of Physics Condensed Matter, 2011, 23, 365703.	0.7	15
146	Crossover from spin waves to diffusive spin excitations in underdoped $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ superconductor. Physical Review B, 2014, 89, .	1.1	14
147	Study of the second magnetization peak and the pinning behaviour in $\text{Ba}(\text{Fe}_{0.935}\text{Co}_{0.065})_2\text{As}_2$ pnictide superconductor. Superconductor Science and Technology, 2017, 30, 125007.	1.8	15
148	Tuning from frustrated magnetism to superconductivity in quasi-one-dimensional $\text{KCr}_2\text{F}_4$ through hydrogen doping. Physical Review B, 2019, 100, .	1.1	14
149	Anisotropic thermal expansion of $\text{FeTe}_{1-x}\text{Se}_x$ . Physical Review B, 2009, 80, .	1.1	14
150	Electronic, magnetic and optical properties of two Fe-based superconductors and related parent compounds. Superconductor Science and Technology, 2010, 23, 054005.	1.8	14
151	Research Update: Spatially resolved mapping of electronic structure on atomic level by multivariate statistical analysis. APL Materials, 2014, 2, .	2.2	14
152	NMR investigation of spin correlations in $\text{BaCo}_2\text{As}_2$ . Superconductor Science and Technology, 2018, 31, .	1.1	14
153	Superconductivity, pairing symmetry, and disorder in the doped topological insulator $\text{Sn}_{1-x}\text{Te}_x$ . Physical Review B, 2018, 97, .	1.1	14
154	Evidence of Ba-substitution induced spin-canting in the magnetic Weyl semimetal $\text{EuCd}_2\text{As}_2$ . Physical Review B, 2020, 102, .	1.1	14
155	Spin excitations in $\text{BaFe}_{1-x}\text{Co}_x\text{As}_2$ observed by inelastic neutron scattering. Physical Review B, 2009, 80, .	1.84	13
156	Stereo-Active Lone-Pair Control on the Ferromagnetic Behavior in $\text{VO}(\text{SeO})_2(\text{OH})_2$ : A New Acentric Ferromagnetic Material. Chemistry of Materials, 2010, 22, 6665-6672.	3.2	13
157	Orbital Occupancy and Charge Doping in Iron-Based Superconductors. Advanced Materials, 2014, 26, 6193-6198.	11.1	13
158	Is $\text{BaCr}_2\text{As}_2$ symmetrical to $\text{BaFe}_2\text{As}_2$ ? Physical Review B, 2019, 100, .	1.1	13
159	Improving superconductivity in $\text{BaFe}_2\text{As}_2$ -based crystals by cobalt clustering and electronic uniformity. Scientific Reports, 2017, 7, 949.	1.6	13
160	High Voltage Performance of Ni-Rich NCA Cathodes: Linking Operating Voltage with Cathode Degradation. ChemElectroChem, 2019, 6, 5571-5580.	1.7	13
161	Local-Ising-type magnetic order and metamagnetism in the rare-earth pyrogermanate $\text{Er}_2\text{Ge}_2\text{O}_7$ . Physical Review Materials, 2019, 3, .	0.9	13
162	Single pair of Weyl nodes in the spin-canted structure of $\text{EuCd}_2\text{As}_2$ . Physical Review B, 2022, 105, .	1.1	13

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163	Coupled structural and magnetic antiphase domain walls on $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2012, 86, .	1.1	12
164	Doping dependence of the spin excitations in the Fe-based superconductors $\text{Fe}_{1+y}\text{Te}_{1-x}\text{Se}_x$ . Physical Review B, 2013, 87, .	1.1	12
165	Annealing effects on the properties of $\text{BFe}_2\text{As}_2$ (B = Ca, Sr, Ba) superconducting parents. Dalton Transactions, 2014, 43, 14971-14975.	1.6	12
166	Effect of Surface Morphology and Magnetic Impurities on the Electronic Structure in Cobalt-Doped $\text{BaFe}_2\text{As}_2$ Superconductors. Nano Letters, 2017, 17, 1642-1647.	4.5	12
167	Crystal structures and magnetic properties of $\text{CeAu}_4\text{Si}_2$ and $\text{CeAu}_2\text{Si}_2$ . Journal of Solid State Chemistry, 2008, 181, 282-293.	1.4	11
168	Spatial inhomogeneity in $\text{RFeAsO}_{1-x}\text{Fx}$ (R=Pr, Nd) determined from rare-earth crystal-field excitations. Physical Review B, 2011, 83, .	1.1	11
169	Evolution of the nuclear and magnetic structures of $\text{TlFe}_{1.6}\text{Se}_2$ with temperature. Physical Review B, 2012, 85, .	1.1	11
170	Angle-resolved photoemission spectroscopy observation of anomalous electronic states in $\text{EuFe}_2\text{As}_2$ . Journal of Physics Condensed Matter, 2014, 26, 035702.	0.7	11
171	$\text{BaFe}_3\text{O}_{10}$ . Journal of Physics: Conference Series, 2011, 273, 012094.	1.1	11
172	Effect of annealing on the specific heat of optimally doped $\text{Ba}(\text{Fe}_{0.92}\text{Co}_{0.08})_2\text{As}_2$ . Journal of Physics: Conference Series, 2011, 273, 012094.	0.3	10
173	Role of magnetism in superconductivity of $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2012, 86, .	1.1	10
174	$\text{BaFe}_2\text{As}_2$ : Study of $\text{BaFe}_2\text{As}_2$ is not Tetragonal: Direct Observation of Magnetoelastic Interactions in Pnictide Superconductors. Advanced Materials, 2015, 27, 2715-2721.	1.1	10
175	Raman scattering study of spin-density-wave-induced anisotropic electronic properties in $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2012, 86, .	11.1	10
176	$\text{BaFe}_2\text{As}_2$ . Physical Review B, 2012, 86, .		

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181	Low-temperature thermal conductivity of BaFe <sub>2</sub> As <sub>2</sub> : A parent compound of iron arsenide superconductors. Physical Review B, 2009, 79, .	1.1	9
182	Effect of pressure, temperature, fluorine doping, and rare earth elements on the phonon density of states of $L\text{FeAsO}$ studied by nuclear inelastic scattering. Physical Review B, 2013, 87, .	1.1	9
183	Evidence for superconductivity at $Cs_2Fe_2As_2$ and $Cs_2Fe_2As_2$ . Physical Review B, 2013, 87, .	1.1	9
184	in oxygen-deficient $\text{MoO}_{2-x}$ and $\text{MoO}_{2-x}$ oxides. Physical Review B, 2014, 90, .	1.1	9
185	Stress-induced nematicity in $\text{EuFe}_2\text{As}_2$ by Raman spectroscopy. Physical Review B, 2016, 94, .	1.1	9
186	Frustrated Magnetism in Triangular Lattice TlYbS <sub>2</sub> Crystals Grown via Molten Flux. Frontiers in Chemistry, 2020, 8, 127.	1.8	9
187	Stripe antiferromagnetic ground state of the ideal triangular lattice compound $\text{KFeSe}_2$ . Physical Review B, 2021, 103, .	1.1	9
188	A Reinterpretation of the Magnetic Properties of the Mixed-Valence (NbV/NbIV) Zintl Phase, Cs <sub>9</sub> Nb <sub>2</sub> As <sub>6</sub> . Inorganic Chemistry, 2004, 43, 142-143.	1.9	8
189	Crystal structure and magnetic properties of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)\text{As}_2$ . Physical Review B, 2007, 76, .	1.1	8
190	Magnetic behavior of $\text{RMn}_2\text{xAl}_{10}\hat{\alpha}^{\text{x}}$ (R=La,Gd) crystals. Physical Review B, 2007, 76, .	1.1	7
191	High-resolution x-ray scattering studies of structural phase transitions in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)\text{As}_2$ . Physical Review B, 2007, 76, .	1.1	7
192	Magnetotransport of proton-irradiated $\text{BaFe}_2\text{As}_2$ and $\text{BaFe}_{1.985}\text{Co}_{0.015}\text{As}_2$ single crystals. Physical Review B, 2015, 91, .	1.1	7
193	Lattice parameters guide superconductivity in iron-arsenides. Journal of Physics Condensed Matter, 2017, 29, 083001.	0.7	7
194	Observation of a Large Magnetic Anisotropy and a Field-Induced Magnetic State in $\text{SrCo}(\text{VO}_4)_2(\text{OH})$ : A Structure with a Quasi One-Dimensional Magnetic Chain. Inorganic Chemistry, 2020, 59, 1029-1037.	1.9	7
195	Synthesis, crystal structure and magnetic properties of $\text{KLnSe}_2$ (Ln = La, Ce, Pr, Nd) structures: A family of 2D triangular lattice frustrated magnets. Journal of Solid State Chemistry, 2022, 308, 122917.	1.4	7
196	Structural and magnetic phase transitions in $\text{NdCoAsO}$ under high pressures. Journal of Physics Condensed Matter, 2010, 22, 185702.	0.7	6
197	Absence of structural transition in $\text{Mn}_2\text{As}_2$ . Physical Review B, 2014, 90, .	1.1	6
198	Modified magnetism within the coherence volume of superconducting $\text{FeSe}$ and $\text{FeTe}$ . Physical Review B, 2014, 90, .	1.1	6

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199	Transport Thermal Properties of $\text{LiTaO}_3$ Pyroelectric Sensor from 15 K to 400 K and Its Application to the Study of Critical Behavior in $\text{EuCo}_2\text{As}_2$ . International Journal of Thermophysics, 2016, 37, 1.	1.0	6
200	Pseudospin versus magnetic dipole moment ordering in the isosceles triangular lattice material $\text{K}_3\text{Er}_2\text{Mn}_3\text{O}_{12}$ . Physical Review B, 2020, 102, .	1.1	6
201	Complex magnetic order in the decorated spin-chain system $\text{Rb}_2\text{Mn}_2\text{O}_7$ . Physical Review B, 2020, 101, .	1.1	6
202	Stacking Faults and Short-Range Magnetic Correlations in Single Crystal $\text{Y}_5\text{Ru}_2\text{O}_{12}$ : A Structure with $\text{Ru}^{+4.5}$ One-Dimensional Chains. Physica Status Solidi (B): Basic Research, 2021, 258, 2000197.	0.7	6
203	Magnetoelastic coupling, negative thermal expansion, and two-dimensional magnetic excitations in FeAs. Physical Review B, 2021, 103, .	1.1	6
204	Probing microscopic variations of superconductivity on the surface of $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2009, 80, .	1.1	5
205	Properties of $\text{RRe}_2\text{Al}_{10}$ (R=Y, Gd, Lu) crystals. Physical Review B, 2009, 79, .	1.1	5
206	Iron substitution in $\text{NdCoAsO}$ : Crystal structure and magnetic phase diagram. Physical Review B, 2010, 82, .	1.1	5
207	High-pressure structural phase transitions in chromium-doped $\text{BaFe}_2\text{As}_2$ . Journal of Physics: Conference Series, 2012, 377, 012016.	0.3	5
208	Modeling and characterization of the magnetocaloric effect in $\text{Ni}_2\text{MnGa}$ materials. International Journal of Refrigeration, 2014, 37, 289-296.	1.8	5
209	Synthesis, Crystal Structure, and Electronic Properties of the $\text{CaRe}_3\text{Sb}_4\text{O}_{14}$ and $\text{Ca}_2\text{Re}_8\text{Sb}_3\text{O}_{10}$ phases (RE) Tj ETQq1.10.784314 rgBT 0.32	1.0	5
210	Robust antiferromagnetism preventing superconductivity in pressurized $(\text{Ba}_{0.61}\text{K}_{0.39})\text{Mn}_2\text{Bi}_2$ . Scientific Reports, 2015, 4, 7342.	1.6	5
211	Local superconductivity in vanadium iron arsenide. Physical Review B, 2019, 100, .	1.1	5
212	Relationship between A-site cation and magnetic structure in $3d^5 5d^4 f$ double perovskite iridates $\text{Ln}_2\text{NiIrO}_6$ (Ln=La, Pr, Nd). Physical Review Materials, 2021, 5, .	0.9	5
213	Competitive and cooperative electronic states in $\text{Ba}(\text{Fe}_{1-x}\text{T}_x)_2\text{As}_2$ with $\text{T}=\text{Co, Ni, Cr}$ . Npj Quantum Materials, 2021, 6, .	1.8	5
214	Coupling of fully symmetric As phonon to magnetism in $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2020, 102, .	1.1	5
215	Mesoscale interplay between phonons and crystal electric field excitations in quantum spin liquid candidate $\text{CsYbSe}_2$ . Journal of Materials Chemistry C, 2022, 10, 4148-4156.	2.7	5
216	$\text{NaCo}_2(\text{SeO}_3)_2(\text{OH})$ : competing magnetic ground states of a new sawtooth structure with $3d^{7+}$ $\text{Co}^{2+}$ ions. Inorganic Chemistry Frontiers, 2022, 9, 4329-4340.	3.0	5

#	ARTICLE	IF	CITATIONS
217	Aligned crystallite powder of NdFeAsO <sub>0.86</sub> F <sub>0.14</sub> : Magnetic hysteresis and penetration depth. Physical Review B, 2009, 79, .	1.1	4
218	Direct probe of the variability of Coulomb correlation in iron pnictide superconductors. Physical Review B, 2012, 85, .	1.1	4
219	High pressure effects on the superconductivity in rare-earth-doped CaFe <sub>2</sub> As <sub>2</sub> . High Pressure Research, 2014, 34, 49-58.	0.4	4
220	Effect of Li <sub>2</sub> O on the microstructure, magnetic and transport properties of Tl-2223 superconductor. Physica C: Superconductivity and Its Applications, 2015, 519, 108-111.	0.6	4
221	Importance of doping and frustration in itinerant Fe-doped Cr <sub>2</sub> Al. Journal of Magnetism and Magnetic Materials, 2015, 392, 68-73. Nonrigid band shift and nonmonotonic electronic structure changes upon doping in the normal state of the pnictide high-temperature superconductor	1.0	4
222			

#	ARTICLE	IF	CITATIONS
235	In-plane electronic anisotropy resulted from ordered magnetic moment in iron-based superconductors. <i>Physical Review Research</i> , 2020, 2, .	1.3	3
236	Superconductivity near a quantum critical point in Ba(Fe <sub>1-x</sub> Co <sub>x</sub> ) <sub>2</sub> As <sub>2</sub> . <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, S273-S275.	0.6	2
237	Pressure-induced superconductivity in Ba <sub>0.5</sub> Sr <sub>0.5</sub> Fe <sub>2</sub> As <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , 2012, 24, 495702.	0.7	2
238	On the nature of filamentary superconductivity in metal-doped hydrocarbon organic materials. <i>Novel Superconducting Materials</i> , 2015, 1, .	0.8	2
239	Signatures of filamentary superconductivity in antiferromagnetic BaFe <sub>2</sub> As <sub>2</sub> single crystals. <i>Europhysics Letters</i> , 2015, 111, 37005.	0.7	2
240	Strain-activated structural anisotropy in BaFe <sub>2</sub> As <sub>2</sub> . <i>Physical Review B</i> , 2016, 93, .	1.1	2
241	Superconductivity with T <sub>c</sub> ≈ 7 K under pressure for Cu- and Au-doped BaFe <sub>2</sub> As <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 295602.	0.7	2
242	Multiband effects on the upper critical field angular dependence of 122-family iron pnictide superconductors. <i>Scientific Reports</i> , 2021, 11, 11526.	1.6	2
243	of $\text{SrFe}_3\text{O}_{10}$ to $\text{SrFe}_2\text{O}_7$ . <i>Desi</i>	0.9	2
244	Insulating antiferromagnetism in VTe. <i>Physical Review B</i> , 2022, 105, .	1.1	2
245	Crystal and electronic structures of metallic Ba <sub>2</sub> Pd <sub>5</sub> Ge <sub>4</sub> . <i>Dalton Transactions</i> , 2012, 41, 12920.	1.6	1
246	Electronic Signature of Magnetic Moment and Fe-Vacancy Order in Fe-Based TlFe <sub>1.6</sub> Se <sub>2</sub> Investigated by STEM/EELS. <i>Microscopy and Microanalysis</i> , 2013, 19, 340-341.	0.2	1
247	Pressure-induced superconductivity and structural transitions in Ba(Fe <sub>0.9</sub> Ru <sub>0.1</sub> ) <sub>2</sub> As <sub>2</sub> . <i>European Physical Journal B</i> , 2014, 87, 1.	0.6	1
248	Superconducting properties in heavily overdoped Ba(Fe <sub>0.86</sub> Co <sub>0.14</sub> ) <sub>2</sub> As <sub>2</sub> single crystals. <i>Solid State Communications</i> , 2015, 201, 20-24.	0.9	1
249	Nanoscale interlayer defects in iron arsenides. <i>Journal of Solid State Chemistry</i> , 2019, 277, 422-426.	1.4	1
250	Effect of Pressure on the Superconducting Properties of Tl <sub>2</sub> Ba <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>9-<math>\delta</math></sub> . <i>Crystals</i> , 2019, 9, 4.	1.0	1
251	Dynamic magnetic response across the pressure-induced structural phase transition in CeNi. <i>Physical Review B</i> , 2019, 99, .	1.1	1
252	A Reinterpretation of the Magnetic Properties of the Mixed-Valence (NbV/NbIV) Zintl Phase, Cs <sub>9</sub> Nb <sub>2</sub> As <sub>6</sub> .. <i>ChemInform</i> , 2004, 35, no.	0.1	0

#	ARTICLE	IF	CITATIONS
253	Magnetic properties of off-stoichiometric $R_2Co_3Zn_{14}$ (R=Y, Gd) single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 1035-1042.	1.0	0
254	Neutron Scattering of CeNi at the SNS-ORNL: A Preliminary Report. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1683, 26.	0.1	0
255	Deep Data Mining in a Real Space: Application to Scanning Probe Microscopy Studies on a "Parent" State of a High Temperature Superconductor. <i>Microscopy and Microanalysis</i> , 2016, 22, 1418-1419.	0.2	0
256	Ferromagnetism: Epitaxial Growth of Intermetallic MnPt Films on Oxides and Large Exchange Bias (Adv. Mater. 1/2016). <i>Advanced Materials</i> , 2016, 28, 204-204.	11.1	0
257	Lattice disorder effect on magnetic ordering of iron arsenides. <i>Scientific Reports</i> , 2019, 9, 20147.	1.6	0