

# Athena S Sefat

## List of Publications by Year in descending order

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257  
papers

11,445  
citations

34493

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38517

99  
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272  
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272  
docs citations

272  
times ranked

8134  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, crystal structure and magnetic properties of $\text{KLnSe}_2$ ( $\text{Ln} = \text{La}, \text{Ce}, \text{Pr}, \text{Nd}$ ) structures: A family of 2D triangular lattice frustrated magnets. <i>Journal of Solid State Chemistry</i> , 2022, 308, 122917.	1.4	7
2	Mesoscale interplay between phonons and crystal electric field excitations in quantum spin liquid candidate $\text{CsYbSe}_2$ . <i>Journal of Materials Chemistry C</i> , 2022, 10, 4148-4156.	2.7	5
3	Single pair of Weyl nodes in the spin-canted structure of $\text{EuCd}_2\text{Mn}_2$ . <i>Physical Review B</i> , 2022, 105, .	1.1	2
4	Insulating antiferromagnetism in VTe. <i>Physical Review B</i> , 2022, 105, .	1.1	2
5	$\text{NaCo}_2(\text{SeO}_3)_2(\text{OH})$ : competing magnetic ground states of a new sawtooth structure with $3d^{7+}$ $\text{Co}^{2+}$ ions. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 4329-4340.	3.0	5
6	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. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000197.	0.7	6
7	Magnetoelastic coupling, negative thermal expansion, and two-dimensional magnetic excitations in FeAs. <i>Physical Review B</i> , 2021, 103, .	1.1	6
8	Stripe antiferromagnetic ground state of the ideal triangular lattice compound $\text{KErSe}_2$ . <i>Physical Review B</i> , 2021, 103, .	1.1	9
9	Nanoscale Superconducting States in the Fe-Based Filamentary Superconductor of Pr-Doped $\text{CaFe}_2\text{As}_2$ . <i>Nanomaterials</i> , 2021, 11, 1019.	1.9	3
10	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
11	Relationship between A-site cation and magnetic structure in $3d^5 4f$ double perovskite iridates $\text{Ln}_2\text{Ni}_2\text{O}_6$ ( $\text{Ln} = \text{La}, \text{Pr}, \text{Nd}$ ). <i>Physical Review Materials</i> , 2021, 5, .	0.9	5
12	Competitive and cooperative electronic states in $\text{Ba}(\text{Fe}_{1-x}\text{Tx})_2\text{As}_2$ with $\text{T} = \text{Co}, \text{Ni}, \text{Cr}$ . <i>Npj Quantum Materials</i> , 2021, 6, .	1.8	5
13	Synthesis and anisotropic magnetism in quantum spin liquid candidates $\text{AYbSe}_2$ ( $\text{A} = \text{K}$ and $\text{Tj}$ ) $T_{\text{ETQ}} = 0.784314 \text{ K}$ $T_{\text{N}} = 1.17 \text{ K}$	1.1	17
14	Unintended consequence of topochemical reduction of $\text{SrFe}_3\text{O}_{10}$ to $\text{SrFe}_2\text{O}_7$ . <i>Physical Review B</i> , 2021, 103, .	0.9	2
15	Systematic extraction of crystal electric-field effects and quantum magnetic model parameters in triangular rare-earth magnets. <i>Physical Review Research</i> , 2021, 3, .	1.3	10
16	Observation of a Large Magnetic Anisotropy and a Field-Induced Magnetic State in $\text{SrCo}(\text{VO}_4)(\text{OH})$ : A Structure with a Quasi One-Dimensional Magnetic Chain. <i>Inorganic Chemistry</i> , 2020, 59, 1029-1037.	1.9	7
17	Crystal Synthesis and Frustrated Magnetism in Triangular Lattice $\text{CsRE}_2\text{Se}_2$ ( $\text{RE} = \text{La}, \text{Lu}$ ): Quantum Spin Liquid Candidates $\text{CsCeSe}_2$ and $\text{CsYbSe}_2$ . <i>Physical Review B</i> , 2020, 2, 71-75.	1.1	49
18	Evidence of Ba-substitution induced spin-canting in the magnetic Weyl semimetal $\text{EuCd}_2\text{Mn}_2$ . <i>Physical Review B</i> , 2020, 102, .	1.1	2

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19	Pseudospin versus magnetic dipole moment ordering in the isosceles triangular lattice material $\text{K}_3\text{Er}_2\text{Mo}_2\text{O}_{12}$ . Physical Review B, 2020, 102, .	1.1	6
20	Superconductivity with $T_c \approx 7$ K under pressure for Cu- and Au-doped $\text{BaFe}_2\text{As}_2$ . Journal of Physics Condensed Matter, 2020, 32, 295602.	0.7	2
21	Complex magnetic order in the decorated spin-chain system $\text{RbMn}_2\text{P}_2\text{O}_7$ . Physical Review B, 2020, 101, .		
22	Single crystal neutron and magnetic measurements of $\text{Rb}_2\text{Mn}_3(\text{VO}_4)_2\text{CO}_3$ and $\text{K}_2\text{Co}_3(\text{VO}_4)_2\text{CO}_3$ with mixed honeycomb and triangular magnetic lattices. Dalton Transactions, 2020, 49, 4323-4335.	1.6	10
23	Frustrated Magnetism in Triangular Lattice $\text{TlYbS}_2$ Crystals Grown via Molten Flux. Frontiers in Chemistry, 2020, 8, 127.	1.8	9
24	Crystal-field Hamiltonian and anisotropy in $\text{KErSe}_2$ and $\text{CsErSe}_2$ . Physical Review B, 2020, 101, .	1.1	20
25	Tunable magnetic order in low-symmetry $\text{SeO}_3$ ligand linked $\text{TM}_3(\text{SeO}_3)_3\text{H}_2\text{O}$ (TM=Mn, Co, and Ni) compounds. Physical Review Materials, 2020, 4, .	0.9	3
26	Coupling of fully symmetric As phonon to magnetism in $\text{BaMn}_2\text{O}_7$ . Physical Review B, 2020, 102, .		
27	In-plane electronic anisotropy resulted from ordered magnetic moment in iron-based superconductors. Physical Review Research, 2020, 2, .	1.3	3
28	High Voltage Performance of Ni-Rich NCA Cathodes: Linking Operating Voltage with Cathode Degradation. ChemElectroChem, 2019, 6, 5571-5580.	1.7	13
29	Nanoscale interlayer defects in iron arsenides. Journal of Solid State Chemistry, 2019, 277, 422-426.	1.4	1
30	Local superconductivity in vanadium iron arsenide. Physical Review B, 2019, 100, .	1.1	5
31	Surface terminations and layer-resolved tunneling spectroscopy of the 122 iron pnictide superconductors. Physical Review B, 2019, 99, .	1.1	16
32	Effect of Pressure on the Superconducting Properties of $\text{Tl}_2\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{9-\delta}$ . Crystals, 2019, 9, 4.	1.0	1
33	Lattice disorder effect on magnetic ordering of iron arsenides. Scientific Reports, 2019, 9, 20147.	1.6	0
34	Field-induced magnetic transition and spin fluctuations in the quantum spin-liquid candidate $\text{CsYbSe}_2$ . Physical Review B, 2019, 100, .	1.1	56
35	Tuning from frustrated magnetism to superconductivity in quasi-one-dimensional $\text{KCr}_3\text{As}_3\text{F}_{10}$ through hydrogen doping. Physical Review B, 2019, 100, .		
36	Dynamic magnetic response across the pressure-induced structural phase transition in CeNi. Physical Review B, 2019, 99, .	1.1	1

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37	Local-Ising-type magnetic order and metamagnetism in the rare-earth pyrogermanate Er <sub>2</sub> Ge <sub>2</sub> O <sub>7</sub> . Physical Review Materials, 2019, 3, .	0.9	13
38	Synthesis, magnetization, and heat capacity of triangular lattice materials $\text{NaErSe}_2$ and $\text{KErSe}_2$ . Superconductivity: Materials, Symmetry, and Disorder in the Doped Topological Insulator $\text{Sn}_x\text{Te}_{1-x}$ for $x < 0.10$ . Physical Review B, 2018, 97, .	0.9	25
39	Superconductivity in $\text{Sn}_x\text{Te}_{1-x}$ for $x < 0.10$ . Physical Review B, 2018, 97, .	1.1	14
40	Magnetic and thermal behavior of a family of compositionally related zero-dimensional fluorides. Solid State Sciences, 2018, 81, 19-25.	1.5	3
41	Unusual effects of Be doping in the iron-based superconductor FeSe. Journal of Physics Condensed Matter, 2018, 30, 445701.	0.7	3
42	Frustrated Structural Instability in Superconducting Quasi-One-Dimensional $\text{K}_2\text{Fe}_2\text{O}_7$ . Physical Review Letters, 2018, 121, 187002.	2.9	16
43	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
44	Effects of proton irradiation on flux-pinning properties of underdoped $\text{Ba}(\text{Fe}_{0.96}\text{Co}_{0.04})_2\text{As}_2$ pnictide superconductor. Journal of Alloys and Compounds, 2017, 694, 1371-1375.	2.8	3
45	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
46	Lattice parameters guide superconductivity in iron-arsenides. Journal of Physics Condensed Matter, 2017, 29, 083001.	0.7	7
47	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
48	Structure and property correlations in FeS. Physica C: Superconductivity and Its Applications, 2017, 534, 29-36.	0.6	37
49	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
50	Magnetic ground state of the Ising-like antiferromagnet $\text{DyScO}_3$ . Physical Review B, 2017, 96, .	1.1	17
51	$\text{BaCr}_2\text{As}_2$ is not symmetric to $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2017, 96, .	1.1	13
52	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
53	Evidence of Mott physics in iron pnictides from x-ray spectroscopy. Physical Review B, 2017, 96, .	1.1	24
54	Coupling of structure to magnetic and superconducting orders in quasi-one-dimensional $\text{K}_2\text{Cr}_3\text{O}_{10}$ . Physical Review B, 2017, 96, .	1.1	22

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55	MnNiO <sub>3</sub> revisited with modern theoretical and experimental methods. Journal of Chemical Physics, 2017, 147, 174703.	1.2	10
56	Deep Data Mining in a Real Space: Application to Scanning Probe Microscopy Studies on a "Parent" State of a High Temperature Superconductor. Microscopy and Microanalysis, 2016, 22, 1418-1419.	0.2	0
57	Stress-induced nematicity in $\text{EuFe}_2\text{As}_2$ by Raman spectroscopy. Physical Review B, 2016, 94, 080401. Nonrigid band shift and nonmonotonic electronic structure changes upon doping in the normal state of the pnictide high-temperature superconductor		

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73	Pressure dependence of the magnetic order in CrAs: A neutron diffraction investigation. Physical Review B, 2015, 91, . Direct spectroscopic evidence for completely filled Cu	1.1	37
74	in Physical Review B, 2015, 91, . Pressure-induced structural phase transition in CeNi: X-ray and neutron scattering studies and first-principles calculations. Physical Review B, 2015, 92, . Role of magnetism in superconductivity of	1.1	16
75	Physical Review B, 2015, 91, . Pressure-induced structural phase transition in CeNi: X-ray and neutron scattering studies and first-principles calculations. Physical Review B, 2015, 92, . Role of magnetism in superconductivity of	1.1	3
76	of Physical Review B, 2015, 91, . Pressure-induced structural phase transition in CeNi: X-ray and neutron scattering studies and first-principles calculations. Physical Review B, 2015, 92, . Role of magnetism in superconductivity of	1.1	10
77	of Physical Review B, 2015, 91, . Pressure-induced structural phase transition in CeNi: X-ray and neutron scattering studies and first-principles calculations. Physical Review B, 2015, 92, . Role of magnetism in superconductivity of	1.6	37
78	Effect of Li2O on the microstructure, magnetic and transport properties of Tl-2223 superconductor. Physica C: Superconductivity and Its Applications, 2015, 519, 108-111.	0.6	4
79	On the nature of filamentary superconductivity in metal-doped hydrocarbon organic materials. Novel Superconducting Materials, 2015, 1	0.8	2
80	Superconductivity in semimetallic Physi	1.1	11
81	Optimization of a non-arsenic iron-based superconductor for wire fabrication. Superconductor Science and Technology, 2015, 28, 045018.	1.8	3
82	Structural and superconducting features of Tl-1223 prepared at ambient pressure. Superconductor Science and Technology, 2015, 28, 115006.	1.8	3
83	Unconventional irreversible structural changes in a high-voltage Li-Mn-rich oxide for lithium-ion battery cathodes. Journal of Power Sources, 2015, 283, 423-428.	4.0	17
84	Importance of doping and frustration in itinerant Fe-doped Cr2Al. Journal of Magnetism and Magnetic Materials, 2015, 392, 68-73.	1.0	4
85	Room-temperature Ba(Fe <sub>1-x</sub> Co <sub>x</sub> ) <sub>2</sub> As <sub>2</sub> is not Tetragonal: Direct Observation of Magnetoelastic Interactions in Pnictide Superconductors. Advanced Materials, 2015, 27, 2715-2721.	11.1	10
86	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.	1.8	23
87	Signatures of filamentary superconductivity in antiferromagnetic BaFe <sub>2</sub> As <sub>2</sub> single crystals. Europhysics Letters, 2015, 111, 37005.	0.7	2
88	Magnetotransport of proton-irradiated BaFe <sub>2</sub> As <sub>2</sub> and BaFe <sub>1.985</sub> Co <sub>0.015</sub> As <sub>2</sub> single crystals. Physical Review B, 2015, 91, .	1.1	7
89	Robust antiferromagnetism preventing superconductivity in pressurized (Ba <sub>0.61</sub> K <sub>0.39</sub> )Mn <sub>2</sub> Bi <sub>2</sub> . Scientific Reports, 2015, 4, 7342.	1.6	5
90	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. Solid State Communications, 2015, 201, 20-24.	0.9	1

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91	Research Update: Spatially resolved mapping of electronic structure on atomic level by multivariate statistical analysis. APL Materials, 2014, 2, .	2.2	14
92	Neutron Scattering of CeNi at the SNS-ORNL: A Preliminary Report. Materials Research Society Symposia Proceedings, 2014, 1683, 26.	0.1	0
93	$C_s Z$ NMR investigation of spin correlations in $CsZr_2As_2$ . Physical Review B, 2014, 90, .	1.1	9
94	$BaCo_2As_2$ NMR investigation of spin correlations in $BaCo_2As_2$ . Physical Review B, 2014, 90, .	1.1	9
95	$BaMo_2As_2$ Crossover from spin waves to diffusive spin excitations in underdoped $BaMo_2As_2$ . Physical Review B, 2014, 89, .	1.1	9
96	High pressure effects on the superconductivity in rare-earth-doped $CaFe_2As_2$ . High Pressure Research, 2014, 34, 49-58.	0.4	4
97	Cu Substitution Effects on the Local Magnetic Properties of $Ba(Fe_{1-x}Cu_x)_2As_2$ : A Site-Selective As75 and Cu63 NMR Study. Physical Review Letters, 2014, 113, 117001.	2.9	20
98	Evolution of antiferromagnetic susceptibility under uniaxial pressure in $Ba(Fe_{1-x}Cu_x)_2As_2$ . Physical Review B, 2014, 90, .	1.1	23
99	Infrared pseudogap in cuprate and pnictide high-temperature superconductors. Physical Review B, 2014, 90, .	1.1	21
100	Modeling and characterization of the magnetocaloric effect in Ni <sub>2</sub> MnGa materials. International Journal of Refrigeration, 2014, 37, 289-296.	1.8	5
101	Fermi-Surface Reconstruction and Complex Phase Equilibria in $CaFe_2As_2$ . Physical Review Letters, 2014, 112, 186401.	2.9	33
102	Angle-resolved photoemission spectroscopy observation of anomalous electronic states in $EuFe_2As_2$ . Journal of Physics Condensed Matter, 2014, 26, 035702.	0.7	11
103	Local Inhomogeneity and Filamentary Superconductivity in Pr-Doped $CaFe_2As_2$ . Physical Review Letters, 2014, 112, 047005.	2.9	41
104	Modified magnetism within the coherence volume of superconducting $Fe_1-xSe_x$ . Physical Review B, 2014, 90, .	1.1	6
105	Orbital Occupancy and Charge Doping in Iron-Based Superconductors. Advanced Materials, 2014, 26, 6193-6198.	11.1	13
106	Annealing effects on the properties of $BFe_2As_2$ (B = Ca, Sr, Ba) superconducting parents. Dalton Transactions, 2014, 43, 14971-14975.	1.6	12
107	Synthesis, Crystal Structure, and Electronic Properties of the $CaRE_3SbO_4$ and $Ca_2RE_8Sb_3O_{10}$ phases (RE = La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu). Physical Review B, 2014, 90, .	3.2	5
108	Critical behavior of the spin density wave transition in underdoped $CaFe_2As_2$ .		



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109	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> . European Physical Journal B, 2014, 87, 1.	0.6	1
110	Magnetic structure and spin excitations in $\text{BaMn}_2\text{O}_7$ . Physical Review B, 2014, 89, .	1.1	9
111	Crystal growth, structures, magnetic and photoluminescent properties of NaLnGeO <sub>4</sub> (Ln = Sm, Eu, Gd). Physical Review B, 2014, 90.	1.5	19
112	Crystal growth, structures, magnetic and photoluminescent properties of NaLnGeO <sub>4</sub> (Ln = Sm, Eu, Gd). Physical Review B, 2014, 90.	1.5	19
113	Complex structures of different CaFe <sub>2</sub> As <sub>2</sub> samples. Scientific Reports, 2014, 4, 4120.	1.6	41
114	U <sub>3</sub> F <sub>12</sub> (H <sub>2</sub> O), a Noncentrosymmetric Uranium(IV) Fluoride Prepared via a Convenient In Situ Route That Creates U <sup>4+</sup> under Mild Hydrothermal Conditions. Inorganic Chemistry, 2013, 52, 8303-8305.	1.9	36
115	Crystal, magnetic and electronic structures and properties of new BaMnPnF (Pn = As, Sb, Bi). Scientific Reports, 2013, 3, 2154.	1.6	27
116	Crystal Growth of New Hexahydroxometallates Using a Hydroflux. Inorganic Chemistry, 2013, 52, 11723-11733.	1.9	50
117	Absence of structural transition in $\text{M}_{0.5}\text{TjETQq1}$ . Physical Review B, 2013, 87, 114407.	1.5	6
118	Neutron Diffraction and Magnetic Susceptibility Studies on a High-Voltage Li <sub>1.2</sub> Mn <sub>0.55</sub> Ni <sub>0.15</sub> Co <sub>0.10</sub> O <sub>2</sub> Lithium Ion Battery Cathode: Insight into the Crystal Structure. Chemistry of Materials, 2013, 25, 4064-4070.	3.2	89
119	Local crystallography analysis for atomically resolved scanning tunneling microscopy images. Nanotechnology, 2013, 24, 415707.	1.3	18
120	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
121	Bulk synthesis of iron-based superconductors. Current Opinion in Solid State and Materials Science, 2013, 17, 59-64.	5.6	36
122	Crystal Growth, Structural Characterization, and Magnetic Properties of New Uranium(IV) Containing Mixed Metal Oxalates: $\text{Na}_2\text{U}_2\text{M}(\text{C}_2\text{O}_4)_6(\text{H}_2\text{O})_4$ (M = Mn <sup>2+</sup> , Fe <sup>2+</sup> , Co <sup>2+</sup> , and Zn <sup>2+</sup> ). Inorganic Chemistry, 2013, 52, 2199-2207.	1.9	31
123	Direct Probe of Interplay between Local Structure and Superconductivity in FeTe <sub>0.55</sub> Se <sub>0.45</sub> . ACS Nano, 2013, 7, 2634-2641.	7.3	24
124	Electronic Band Structure of $\text{BaCo}_2\text{As}_4$ : A Fully Doped Ferropnictide Analog with Reduced Electronic Correlations. Physical Review X, 2013, 3, .	2.8	41
125	Investigating phase transformation in the Li <sub>1.2</sub> Co <sub>0.1</sub> Mn <sub>0.55</sub> Ni <sub>0.15</sub> O <sub>2</sub> 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
126	Crystals, magnetic and electronic properties of a new ThCr <sub>2</sub> Si <sub>2</sub> -type BaMn <sub>2</sub> Bi <sub>2</sub> and K-doped compositions. Journal of Solid State Chemistry, 2013, 204, 32-39.	1.4	37



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127	Crystal Growth, Structure, Polarization, and Magnetic Properties of Cesium Vanadate, Cs <sub>2</sub> V <sub>3</sub> O <sub>8</sub> : A Structure-Property Study. Inorganic Chemistry, 2013, 52, 6179-6186.	1.9	37
128	Doping dependence of the spin excitations in the Fe-based superconductors Fe <sub>1+y</sub> Te <sub>1-x</sub> Se <sub>x</sub> . Physical Review B, 2013, 87, .	1.1	12
129	Calculations on the thermal conductivity in superconducting Ba(Fe <sub>1-x</sub> Ti <sub>x</sub> ) <sub>2</sub> As <sub>2</sub> . Physical Review B, 2013, 87, .	1.1	10
130	Effect of pressure, temperature, fluorine doping, and rare earth elements on the phonon density of states of LFeAsO studied by nuclear inelastic scattering. Physical Review B, 2013, 87, .	1.1	9
131	Interlayer Coherence and Superconducting Condensate in the c-Axis Response of Optimally Doped Ba(Fe <sub>1-x</sub> Cox) <sub>2</sub> As <sub>2</sub> High-Tc Superconductor Using Infrared Spectroscopy. Physical Review Letters, 2013, 110, 097003.	2.9	39
132	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. Microscopy and Microanalysis, 2013, 19, 340-341.	0.2	1
133	Direct measurement of the magnetic penetration depth by magnetic force microscopy. Superconductor Science and Technology, 2012, 25, 112001.	1.8	19
134	Magnetic properties of single crystal EuCo <sub>2</sub> As <sub>2</sub> . Journal of Applied Physics, 2012, 111, .	1.1	25
135	Effect of molybdenum d-hole substitution in BaFe <sub>2</sub> As <sub>2</sub> . Physical Review B, 2012, 85, .	1.1	27
136	Electronic Correlations and Unconventional Spectral Weight Transfer in the High-Temperature Pnictide BaFe <sub>2-x</sub> Co <sub>x</sub> As <sub>2</sub> . Physical Review Letters, 2012, 108, 147002.	2.9	69
137	Coupled structural and magnetic antiphase domain walls in BaFe <sub>2-x</sub> Co <sub>x</sub> As <sub>2</sub> . Physical Review Letters, 2012, 108, 147002.	1.1	12
138	Itinerant electrons, local moments, and magnetic correlations in the pnictide superconductors CeFeAsO and BaFe <sub>2-x</sub> Co <sub>x</sub> As <sub>2</sub> . Physical Review B, 2012, 86, .	1.1	12

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145	Direct probe of the variability of Coulomb correlation in iron pnictide superconductors. Physical Review B, 2012, 85, .	1.1	4
146	Infrared Measurement of the Pseudogap of P-Doped and Co-Doped High-Temperature $\text{BaFe}_2\text{As}_2$ . Physical Review Letters, 2012, 109, 027006.	2.9	64
147	Effect of Uniaxial Strain on the Structural and Magnetic Phase Transitions in $\text{BaFe}_2\text{As}_2$ . Physical Review Letters, 2012, 108, 087001.	2.9	95
148	Pressure-induced superconductivity in $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Fe}_2\text{As}_2$ . Journal of Physics Condensed Matter, 2012, 24, 495702.	0.7	2
149	Properties of binary transition-metal arsenides ( $\text{TAs}$ ). Superconductor Science and Technology, 2012, 25, 084016.	1.8	51
150	Temperature-composition phase diagrams for $\text{BaSr}_{1-x}\text{Fe}_x\text{As}_2$ . Physical Review B, 2011, 83, .	1.1	8
151	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
152	Phase transition and superconductivity of $\text{SrFe}_2\text{As}_2$ under high pressure. Journal of Physics Condensed Matter, 2011, 23, 122201.	0.7	45
153	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
154	Effect of carrier doping on the formation and collapse of magnetic polarons in lightly hole-doped $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ . Physical Review B, 2011, 83, .	1.1	25
155	Pressure effects on the transport coefficients of $\text{SeFe}_2\text{As}_2$ . Physical Review B, 2011, 84, .	1.1	66
156	Pressure effects on the transport coefficients of $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2011, 84, .	1.1	22
157	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
158	Search for pressure-induced superconductivity in $\text{CeFeAsO}$ and $\text{CeFePO}$ iron pnictides. Physical Review B, 2011, 83, .	1.1	26
159	Pressure effects on two superconducting iron-based families. Reports on Progress in Physics, 2011, 74, 124502.	8.1	98
160	Variation of physical properties in the nominal $\text{Sr}_4\text{V}_2\text{O}_6\text{Fe}_2\text{As}_2$ . Physica C: Superconductivity and Its Applications, 2011, 471, 143-149.	0.6	18
161	Structure and magnetic order in the series $\text{Bi}_x\text{RE}_{1-x}\text{Fe}_{0.5}\text{Mn}_{0.5}\text{O}_3$ ( $\text{RE}=\text{La},\text{Nd}$ ). Journal of Solid State Chemistry, 2011, 184, 830-842.	1.4	16
162	Magnetic excitations in the geometric frustrated multiferroic $\text{CuCrO}_2$ . Physical Review B, 2011, 84, .	1.1	50

#	ARTICLE	IF	CITATIONS
163	Phonon splitting and anomalous enhancement of infrared-active modes in BaFe $\times$ As $\times$ (R=Pr, Nd) determined from rare-earth crystal-field excitations. Physical Review B, 2011, 83, . Phonon softening near the structural transition in BaFe $\times$ As $\times$ observed by inelastic x-ray scattering. Physical Review B, 2011, 84, .	1.1	30
164	Spin glass and semiconducting behavior in one-dimensional BaFe $\times$ Se $\times$ (x=0.2) crystals. Physical Review B, 2011, 84, .	1.1	58
165	Spatial inhomogeneity in RFeAsO $\times$ (R=Pr, Nd) determined from rare-earth crystal-field excitations. Physical Review B, 2011, 83, .	1.1	11
166	Phonon softening near the structural transition in BaFe $\times$ As $\times$ observed by inelastic x-ray scattering. Physical Review B, 2011, 84, .	1.1	39
167	Unusual phase transitions and magnetoelastic coupling in TlFe $\times$ Se $\times$ single crystals. Physical Review B, 2011, 83, .	1.1	21

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#	ARTICLE	IF	CITATIONS
199	C59oandA75sNMR investigation of lightly dopedBa(Fe1â~xCox)2As2(x=0.02,0.04). Physical Review B, 2009, 79, .	1.1	36
200	Two-dimensional resonant magnetic excitation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>1.84</mml:mn></mml:msub><mml:msub><mml:mi>Co</mml:mi></mml:msub></mml:math> Physical Review Letters, 2009, 102, 107005.	2.9	237
201	Surface Geometric and Electronic Structures of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>As</mml:mi></mml:msub></mml:math> (stretchy="false")</mml:mo><mml:mn>001</mml:mn><mml:mo>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 647 Td (stretchy="false")</mml:math>	2.9	159
202	Aligned crystallite powder ofNdFeAsO0.86F0.14: Magnetic hysteresis and penetration depth. Physical Review B, 2009, 79, .	1.1	4
203	Electronic structure and magnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BaMn</mml:mtext></mml:mrow></mml:msub></mml:mrow><mml:mn>2</mml:mn></mml:math> Physical Review B, 2009, 79, .	1.1	112
204	Probing microscopic variations of superconductivity on the surface of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Ba</mml:mtext><mml:msub><mml:mrow><mml:mrow><mml:mo>( </mml:mo></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review B, 2009, 80, .	1.1	5
205	Structure and anisotropic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ba</mml:mtext></mml:mrow></mml:msub></mml:mrow></mml:math>		

#	ARTICLE	IF	CITATIONS
217	Anisotropic thermal expansion of $\text{FeTe}$ . Physical Review B, 2009, 79, .	1.1	14
218	Bulk superconductivity at 14 K in single crystals of $\text{FeTe}$ . Physical Review B, 2009, 79, .	1.1	397
219	Properties of $\text{RRe}_2\text{Al}_{10}$ (R=Y, Gd-Lu) crystals. Physical Review B, 2009, 79, .	1.1	5
220	High-resolution measurements of the thermal expansion of superconducting Co-doped $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2009, 79, .	1.1	34
221	Influence of the rare-earth element on the effects of the structural and magnetic phase transitions in $\text{CeFeAsO}$ , $\text{PrFeAsO}$ and $\text{NdFeAsO}$ . New Journal of Physics, 2009, 11, 025011.	1.2	109
222	Itinerant antiferromagnetism in $\text{BaCr}_2\text{As}_2$ . Experimental characterization and electronic structure calculations. Physical Review B, 2009, 79, .	1.1	68
223	New correlated electron physics from new materials. Physica B: Condensed Matter, 2009, 404, 2924-2929.	1.3	17
224	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
225	Effect of pressure on the superconducting critical temperature of $\text{La}[\text{O}_{0.89}\text{F}_{0.11}]\text{FeAs}$ and $\text{Ce}[\text{O}_{0.88}\text{F}_{0.12}]\text{FeAs}$ . Physica C: Superconductivity and Its Applications, 2008, 468, 2229-2232.	0.6	48
226	Magnetization, resistivity and heat capacity of the anisotropic $\text{RVsb}_3$ crystals (R=La-Nd, Sm, Gd-Dy). Journal of Magnetism and Magnetic Materials, 2008, 320, 120-141.	1.0	20
227	Precise measurements of radio-frequency magnetic susceptibility in ferromagnetic and antiferromagnetic materials. Journal of Magnetism and Magnetic Materials, 2008, 320, 354-363.	1.0	32
228	Magnetic properties of off-stoichiometric $\text{R}_2\text{Co}_3\text{Zn}_{14}$ (R=Y, Gd) single crystals. Journal of Magnetism and Magnetic Materials, 2008, 320, 1035-1042.	1.0	0
229	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
230	Electronic correlations in the superconductor $\text{LaFeAsO}_{0.89}\text{F}_{0.11}$ . Physical Review Letters, 2008, 101, 117004.	1.1	214
231	A New Magnetically Ordered Polymorph of $\text{CuMoO}_4$ : Synthesis and Characterization of $\mu\text{-CuMoO}_4$ . Chemistry of Materials, 2008, 20, 3785-3787.	3.2	17
232	Superconductivity at 22 K in Co-Doped $\text{BaFe}_2\text{As}_2$ . Physical Review Letters, 2008, 101, 117004.	2.9	190
233	Phonon Density of States of $\text{LaFeAsO}_{1-x}\text{F}_x$ . Physical Review Letters, 2008, 101, 157004.	2.9	65
234	Variation of the magnetic ordering in $\text{GdT}_2\text{Zn}_{20}$ (T=Fe, Ru, Os, Co, Rh and Ir) and its correlation with the electronic structure of isostructural $\text{YT}_2\text{Zn}_{20}$ . Physical Review B, 2008, 77, .	1.1	53

#	ARTICLE	IF	CITATIONS
235	Pressure effects on the electron-doped highTc superconductor BaFe <sub>2</sub> As <sub>2</sub> . Journal of Physics Condensed Matter, 2008, 20, 472201.	0.7	48
236	Phase transitions in LaFeAsO: Structural, magnetic, elastic, and transport properties, heat capacity and Mössbauer spectra. Physical Review B, 2008, 78, .	1.1	284
237	Comparative high-field magnetotransport of the oxypnictide superconductors RFeAsO <sub>1-x</sub> F <sub>x</sub> (R=La, Nd) and SmFeAsO <sub>1-x</sub> F <sub>x</sub> . Physical Review B, 2008, 78, .	1.1	121
238	<sup>59</sup> Co and <sup>75</sup> As NMR Investigation of Electron-Doped High T <sub>c</sub> Superconductor BaFe <sub>1.8</sub> Co <sub>0.2</sub> As <sub>2</sub> (T <sub>c</sub> = 22 K). Journal of the Physical Society of Japan, 2008, 77, 103705.	0.7	99
239	Superconductivity in LaFe <sub>1-x</sub> Co <sub>x</sub> AsO. Physical Review B, 2008, 78, .	1.1	105
240	Evidence for electromagnetic granularity in the polycrystalline iron-based superconductor LaO <sub>0.89</sub> F <sub>0.11</sub> FeAs. Applied Physics Letters, 2008, 92, 252501.	1.5	59
241	<sup>19</sup> F NMR investigation of the iron pnictide superconductor LaFeAsO <sub>0.89</sub> F <sub>0.11</sub> . Physical Review B, 2008, 78, .	1.1	120
242	Evidence for Strong Itinerant Spin Fluctuations in the Normal State of CeFeAsO <sub>0.89</sub> F <sub>0.11</sub> . Physical Review Letters, 2008, 101, 267001.	1.1	106
243	NMR Measurements of Intrinsic Spin Susceptibility in LaFeAsO <sub>0.9</sub> F <sub>0.1</sub> . Journal of the Physical Society of Japan, 2008, 77, 47-53.	0.7	16
244	Magnetic behavior of RMn <sub>2</sub> Al <sub>10</sub> (R=La,Gd) crystals. Physical Review B, 2007, 76, .	1.1	7
245	Spin-Gap Formation and Thermal Structural Studies in Reduced Hybrid Layered Vanadates. Inorganic Chemistry, 2006, 45, 5109-5118.	1.9	25
246	Temperature-dependent optical spectroscopy studies of Nd <sub>1-x</sub> TiO <sub>3</sub> . Physical Review B, 2006, 73, .	1.1	16
247	Effect of hole doping on the magnetic properties of the Mott-Hubbard antiferromagnetic insulator Nd <sub>1-x</sub> TiO <sub>3</sub> . Physical Review B, 2006, 74, .	1.1	9
248	Anderson-Mott transition induced by hole doping in Nd <sub>1-x</sub> TiO <sub>3</sub> . Physical Review B, 2006, 74, .	1.1	23
249	High-resolution EELS study of the vacancy-doped metal/insulator system, Nd <sub>1-x</sub> TiO <sub>3</sub> , to 0.33. Journal of Solid State Chemistry, 2005, 178, 1008-1016.	1.4	90
250	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> . ChemInform, 2004, 35, no.	0.1	0
251	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
252	Ceramics Containing Magnetic Co-Fe Alloy Nanoparticles from the Pyrolysis of a Highly Metallized Organometallic Polymer Precursor. Advanced Materials, 2003, 15, 51-55.	11.1	73



#	ARTICLE	IF	CITATIONS
253	Synthesis, Structure, and Physical Properties of Mixed Valent Mo <sub>2</sub> SbS <sub>2</sub> , the First Superconducting Antimonide-Sulfide. <i>Chemistry of Materials</i> , 2003, 15, 780-786.	3.2	15
254	Reversible Lithium Uptake by FeP <sub>2</sub> . <i>Electrochemical and Solid-State Letters</i> , 2003, 6, A162.	2.2	115
255	Polyferrocenylsilane Microspheres: A Synthesis, Mechanism of Formation, Size and Charge Tunability, Electrostatic Self-Assembly, and Pyrolysis to Spherical Magnetic Ceramic Particles. <i>Journal of the American Chemical Society</i> , 2002, 124, 12522-12534.	6.6	112
256	Replicating the Structure of a Crosslinked Polyferrocenylsilane Inverse Opal in the Form of a Magnetic Ceramic. <i>Advanced Functional Materials</i> , 2002, 12, 382.	7.8	50
257	Polyferrocenylsilane and Magnetic Ceramic Microspheres. <i>Advanced Materials</i> , 2001, 13, 732-736.	11.1	62