

Athena S Sefat

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

247
papers

10,127
citations

52
h-index

93
g-index

272
ext. papers

10,873
ext. citations

4.8
avg, IF

5.85
L-index

#	Paper	IF	Citations
247	Synthesis, crystal structure and magnetic properties of KLnSe ₂ (Ln = La, Ce, Pr, Nd) structures: A family of 2D triangular lattice frustrated magnets. <i>Journal of Solid State Chemistry</i> , 2022 , 308, 122917	3.3	0
246	Mesoscale interplay between phonons and crystal electric field excitations in quantum spin liquid candidate CsYbSe ₂ . <i>Journal of Materials Chemistry C</i> , 2022 , 10, 4148-4156	7.1	0
245	Synthesis and anisotropic magnetism in quantum spin liquid candidates AYbSe ₂ (A = K and Rb). <i>APL Materials</i> , 2021 , 9, 111104	5.7	1
244	Competitive and cooperative electronic states in Ba(Fe _{1-x} Tx) ₂ As ₂ with T = Co, Ni, Cr. <i>Npj Quantum Materials</i> , 2021 , 6,	5	2
243	Magnetoelastic coupling, negative thermal expansion, and two-dimensional magnetic excitations in FeAs. <i>Physical Review B</i> , 2021 , 103,	3.3	1
242	Stripe antiferromagnetic ground state of the ideal triangular lattice compound KErSe ₂ . <i>Physical Review B</i> , 2021 , 103,	3.3	3
241	Nanoscale Superconducting States in the Fe-Based Filamentary Superconductor of Pr-Doped CaFeAs. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
240	Multiband effects on the upper critical field angular dependence of 122-family iron pnictide superconductors. <i>Scientific Reports</i> , 2021 , 11, 11526	4.9	0
239	Stacking Faults and Short-Range Magnetic Correlations in Single Crystal Y ₅ Ru ₂ O ₁₂ : A Structure with Ru ^{+4.5} One-Dimensional Chains. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2000197	1.3	3
238	Systematic extraction of crystal electric-field effects and quantum magnetic model parameters in triangular rare-earth magnets. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
237	Superconductivity with T _c > K under pressure for Cu- and Au-doped BaFeAs. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 295602	1.8	2
236	Single crystal neutron and magnetic measurements of RbMn(VO)CO and KCo(VO)CO with mixed honeycomb and triangular magnetic lattices. <i>Dalton Transactions</i> , 2020 , 49, 4323-4335	4.3	5
235	Frustrated Magnetism in Triangular Lattice TLYbS Crystals Grown via Molten Flux. <i>Frontiers in Chemistry</i> , 2020 , 8, 127	5	8
234	Crystal-field Hamiltonian and anisotropy in KErSe ₂ and CsErSe ₂ . <i>Physical Review B</i> , 2020 , 101,	3.3	9
233	Coupling of fully symmetric As phonon to magnetism in Ba(Fe _{1-x} Aux) ₂ As ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	1
232	Observation of a Large Magnetic Anisotropy and a Field-Induced Magnetic State in SrCo(VO)(OH): A Structure with a Quasi One-Dimensional Magnetic Chain. <i>Inorganic Chemistry</i> , 2020 , 59, 1029-1037	5.1	2
231	Crystal Synthesis and Frustrated Magnetism in Triangular Lattice CsRESe ₂ (RE = La Lu): Quantum Spin Liquid Candidates CsCeSe ₂ and CsYbSe ₂ 2020 , 2, 71-75		23

230	Evidence of Ba-substitution induced spin-canting in the magnetic Weyl semimetal EuCd ₂ As ₂ . <i>Physical Review B</i> , 2020 , 102,	3-3	4
229	Pseudospin versus magnetic dipole moment ordering in the isosceles triangular lattice material K ₃ Er(VO ₄) ₂ . <i>Physical Review B</i> , 2020 , 102,	3-3	1
228	Local superconductivity in vanadium iron arsenide. <i>Physical Review B</i> , 2019 , 100,	3-3	3
227	Surface terminations and layer-resolved tunneling spectroscopy of the 122 iron pnictide superconductors. <i>Physical Review B</i> , 2019 , 99,	3-3	12
226	Effect of Pressure on the Superconducting Properties of Tl ₂ Ba ₂ Ca ₂ Cu ₃ O ₉ - δ Crystals, 2019 , 9, 4	2-3	1
225	High-Voltage Performance of Ni-Rich NCA Cathodes: Linking Operating Voltage with Cathode Degradation. <i>ChemElectroChem</i> , 2019 , 6, 5571-5580	4-3	6
224	Nanoscale interlayer defects in iron arsenides. <i>Journal of Solid State Chemistry</i> , 2019 , 277, 422-426	3-3	1
223	Local-Ising-type magnetic order and metamagnetism in the rare-earth pyrogermanate Er ₂ Ge ₂ O ₇ . <i>Physical Review Materials</i> , 2019 , 3,	3-2	5
222	Synthesis, magnetization, and heat capacity of triangular lattice materials NaErSe ₂ and KErSe ₂ . <i>Physical Review Materials</i> , 2019 , 3,	3-2	15
221	Lattice disorder effect on magnetic ordering of iron arsenides. <i>Scientific Reports</i> , 2019 , 9, 20147	4-9	
220	Field-induced magnetic transition and spin fluctuations in the quantum spin-liquid candidate CsYbSe ₂ . <i>Physical Review B</i> , 2019 , 100,	3-3	27
219	Tuning from frustrated magnetism to superconductivity in quasi-one-dimensional KCr ₃ As ₃ through hydrogen doping. <i>Physical Review B</i> , 2019 , 100,	3-3	6
218	Dynamic magnetic response across the pressure-induced structural phase transition in CeNi. <i>Physical Review B</i> , 2019 , 99,	3-3	1
217	Superconductivity, pairing symmetry, and disorder in the doped topological insulator Sn _{1-x} In _x Te for x \in [0,10]. <i>Physical Review B</i> , 2018 , 97,	3-3	8
216	Magnetic and thermal behavior of a family of compositionally related zero-dimensional fluorides. <i>Solid State Sciences</i> , 2018 , 81, 19-25	3-4	2
215	Decoupled spin dynamics in the rare-earth orthoferrite YbFeO ₃ : Evolution of magnetic excitations through the spin-reorientation transition. <i>Physical Review B</i> , 2018 , 98,	3-3	13
214	Unusual effects of Be doping in the iron-based superconductor FeSe. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 445701	1.8	2
213	Frustrated Structural Instability in Superconducting Quasi-One-Dimensional K ₂ Cr ₃ As ₃ . <i>Physical Review Letters</i> , 2018 , 121, 187002	7-4	9

212	Effects of proton irradiation on flux-pinning properties of underdoped Ba(Fe _{0.96} Co _{0.04}) ₂ As ₂ pnictide superconductor. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 1371-1375	5.7	2
211	Effect of Surface Morphology and Magnetic Impurities on the Electronic Structure in Cobalt-Doped BaFeAs Superconductors. <i>Nano Letters</i> , 2017 , 17, 1642-1647	11.5	10
210	Lattice parameters guide superconductivity in iron-arsenides. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 083001	1.8	3
209	Resolving the degradation pathways in high-voltage oxides for high-energy-density lithium-ion batteries; Alternation in chemistry, composition and crystal structures. <i>Nano Energy</i> , 2017 , 36, 76-84	17.1	26
208	Structure and property correlations in FeS. <i>Physica C: Superconductivity and Its Applications</i> , 2017 , 534, 29-36	1.3	29
207	Study of the second magnetization peak and the pinning behaviour in Ba(Fe _{0.935} Co _{0.065}) ₂ As ₂ pnictide superconductor. <i>Superconductor Science and Technology</i> , 2017 , 30, 125007	3.1	11
206	Magnetic ground state of the Ising-like antiferromagnet DyScO ₃ . <i>Physical Review B</i> , 2017 , 96,	3.3	14
205	Is BaCr ₂ As ₂ symmetrical to BaFe ₂ As ₂ with respect to half 3d shell filling?. <i>Physical Review B</i> , 2017 , 95,	3.3	9
204	Improving superconductivity in BaFeAs-based crystals by cobalt clustering and electronic uniformity. <i>Scientific Reports</i> , 2017 , 7, 949	4.9	10
203	Evidence of Mott physics in iron pnictides from x-ray spectroscopy. <i>Physical Review B</i> , 2017 , 96,	3.3	20
202	Coupling of structure to magnetic and superconducting orders in quasi-one-dimensional K ₂ Cr ₃ As ₃ . <i>Physical Review B</i> , 2017 , 96,	3.3	15
201	MnNiO revisited with modern theoretical and experimental methods. <i>Journal of Chemical Physics</i> , 2017 , 147, 174703	3.9	7
200	Strain-activated structural anisotropy in BaFe ₂ As ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	2
199	Raman scattering study of spin-density-wave-induced anisotropic electronic properties in AFe ₂ As ₂ (A=Ca, Eu). <i>Physical Review B</i> , 2016 , 93,	3.3	6
198	Tetragonal and collapsed-tetragonal phases of CaFe ₂ As ₂ : A view from angle-resolved photoemission and dynamical mean-field theory. <i>Physical Review B</i> , 2016 , 93,	3.3	15
197	Full Electroresistance Modulation in a Mixed-Phase Metallic Alloy. <i>Physical Review Letters</i> , 2016 , 116, 097203	7.4	67
196	Modification of Ni-Rich FCG NMC and NCA Cathodes by Atomic Layer Deposition: Preventing Surface Phase Transitions for High-Voltage Lithium-Ion Batteries. <i>Scientific Reports</i> , 2016 , 6, 26532	4.9	157
195	Multi-layered Chalcogenides with potential for magnetism and superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , 2016 , 531, 25-29	1.3	3

194	Anomalous magneto-elastic and charge doping effects in thallium-doped BaFe ₂ As ₂ . <i>Scientific Reports</i> , 2016 , 6, 21660	4.9	4
193	Metallicity of Ca ₂ Cu ₆ P ₅ with single and double copper-pnictide layers. <i>Journal of Alloys and Compounds</i> , 2016 , 671, 334-339	5.7	4
192	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	0.5	
191	Stress-induced nematicity in EuFe ₂ As ₂ studied by Raman spectroscopy. <i>Physical Review B</i> , 2016 , 94,	3.3	4
190	Nonrigid band shift and nonmonotonic electronic structure changes upon doping in the normal state of the pnictide high-temperature superconductor Ba(Fe _{1-x} Cox) ₂ As ₂ . <i>Physical Review B</i> , 2016 , 94,	3.3	3
189	Angle-resolved photoemission observation of Mn-pnictide hybridization and negligible band structure renormalization in BaMn ₂ As ₂ and BaMn ₂ Sb ₂ . <i>Physical Review B</i> , 2016 , 94,	3.3	12
188	Deep data mining in a real space: separation of intertwined electronic responses in a lightly doped BaFeAs. <i>Nanotechnology</i> , 2016 , 27, 475706	3.4	20
187	Persistent magnetism in silver-doped BaFe ₂ As ₂ crystals. <i>Physical Review B</i> , 2016 , 94,	3.3	3
186	Epitaxial Growth of Intermetallic MnPt Films on Oxides and Large Exchange Bias. <i>Advanced Materials</i> , 2016 , 28, 118-23	24	18
185	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	24	
184	Transport Thermal Properties of (hbox {LiTaO}_{3}) Pyroelectric Sensor from 15 K to 400 K and Its Application to the Study of Critical Behavior in (hbox {EuCo}_{2}hbox {As}_{2}). <i>International Journal of Thermophysics</i> , 2016 , 37, 1	2.1	3
183	Unconventional irreversible structural changes in a high-voltage LiMn-rich oxide for lithium-ion battery cathodes. <i>Journal of Power Sources</i> , 2015 , 283, 423-428	8.9	14
182	Importance of doping and frustration in itinerant Fe-doped Cr ₂ Al. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 392, 68-73	2.8	2
181	Room-Temperature Ba(Fe _{1-x} Cox) ₂ As ₂ is not Tetragonal: Direct Observation of Magnetoelastic Interactions in Pnictide Superconductors. <i>Advanced Materials</i> , 2015 , 27, 2715-21	24	9
180	Enhancement of the critical current density by increasing the collective pinning energy in heavy ion irradiated Co-doped BaFe ₂ As ₂ single crystals. <i>Superconductor Science and Technology</i> , 2015 , 28, 055011	3.1	13
179	Signatures of filamentary superconductivity in antiferromagnetic BaFe ₂ As ₂ single crystals. <i>Europhysics Letters</i> , 2015 , 111, 37005	1.6	2
178	Magnetotransport of proton-irradiated BaFe ₂ As ₂ and BaFe _{1.985} Co _{0.015} As ₂ single crystals. <i>Physical Review B</i> , 2015 , 91,	3.3	7
177	Superconducting properties in heavily overdoped Ba(Fe _{0.86} Co _{0.14}) ₂ As ₂ single crystals. <i>Solid State Communications</i> , 2015 , 201, 20-24	1.6	1

176	Pressure dependence of the magnetic order in CrAs: A neutron diffraction investigation. <i>Physical Review B</i> , 2015 , 91,	3.3	29
175	Direct spectroscopic evidence for completely filled Cu 3d shell in BaCu ₂ As ₂ and BaCu ₂ Sb ₂ . <i>Physical Review B</i> , 2015 , 91,	3.3	13
174	Pressure-induced structural phase transition in CeNi: X-ray and neutron scattering studies and first-principles calculations. <i>Physical Review B</i> , 2015 , 92,	3.3	3
173	Role of magnetism in superconductivity of BaFe ₂ As ₂ : Study of 5d Au-doped crystals. <i>Physical Review B</i> , 2015 , 92,	3.3	8
172	Pressure-induced electronic phase separation of magnetism and superconductivity in CrAs. <i>Scientific Reports</i> , 2015 , 5, 13788	4.9	34
171	Effect of Li ₂ O on the microstructure, magnetic and transport properties of Tl-2223 superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2015 , 519, 108-111	1.3	2
170	On the nature of filamentary superconductivity in metal-doped hydrocarbon organic materials. <i>Novel Superconducting Materials</i> , 2015 , 1,		1
169	Superconductivity in semimetallic Bi ₃ O ₂ S ₃ . <i>Physical Review B</i> , 2015 , 91,	3.3	10
168	Optimization of a non-arsenic iron-based superconductor for wire fabrication. <i>Superconductor Science and Technology</i> , 2015 , 28, 045018	3.1	3
167	Structural and superconducting features of Tl-1223 prepared at ambient pressure. <i>Superconductor Science and Technology</i> , 2015 , 28, 115006	3.1	2
166	Robust antiferromagnetism preventing superconductivity in pressurized (Ba _{0.61} K _{0.39})Mn ₂ Bi ₂ . <i>Scientific Reports</i> , 2014 , 4, 7342	4.9	4
165	Modeling and characterization of the magnetocaloric effect in Ni ₂ MnGa materials. <i>International Journal of Refrigeration</i> , 2014 , 37, 289-296	3.8	5
164	Fermi-surface reconstruction and complex phase equilibria in CaFe ₂ As ₂ . <i>Physical Review Letters</i> , 2014 , 112, 186401	7.4	32
163	Angle-resolved photoemission spectroscopy observation of anomalous electronic states in EuFe ₂ As ₂ (2-x)P(x). <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 035702	1.8	10
162	Local inhomogeneity and filamentary superconductivity in Pr-doped CaFe ₂ As ₂ . <i>Physical Review Letters</i> , 2014 , 112, 047005	7.4	36
161	Modified magnetism within the coherence volume of superconducting Fe _{1+x} Te _{1-x} . <i>Physical Review B</i> , 2014 , 90,	3.3	5
160	Orbital occupancy and charge doping in iron-based superconductors. <i>Advanced Materials</i> , 2014 , 26, 6193-8	2.4	12
159	Annealing effects on the properties of BFe ₂ As ₂ (B = Ca, Sr, Ba) superconducting parents. <i>Dalton Transactions</i> , 2014 , 43, 14971-5	4.3	11

158	Synthesis, Crystal Structure, and Electronic Properties of the $\text{CaRE}_3\text{SbO}_4$ and $\text{Ca}_2\text{RE}_8\text{Sb}_3\text{O}_{10}$ phases (RE = Rare-Earth Metal). <i>Chemistry of Materials</i> , 2014 , 26, 2289-2298	9.6	3
157	Critical behavior of the spin density wave transition in underdoped $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ ($x \approx 0.05$): As ⁷⁵ NMR investigation. <i>Physical Review B</i> , 2014 , 89,	3.3	14
156	Pressure-induced superconductivity and structural transitions in $\text{Ba}(\text{Fe}_{0.9}\text{Ru}_{0.1})_2\text{As}_2$. <i>European Physical Journal B</i> , 2014 , 87, 1	1.2	1
155	Magnetic structure and spin excitations in BaMn_2Bi_2 . <i>Physical Review B</i> , 2014 , 89,	3.3	21
154	Evidence for superconductivity at $T_c = 12$ K in oxygen-deficient MoO_2Te and properties of molybdenum arsenide and oxide binaries. <i>Physical Review B</i> , 2014 , 90,	3.3	7
153	Crystal growth, structures, magnetic and photoluminescent properties of NaLnGeO_4 (Ln = Sm, Eu, Gd, Tb). <i>Solid State Sciences</i> , 2014 , 34, 24-30	3.4	15
152	Complex structures of different CaFe_2As_2 samples. <i>Scientific Reports</i> , 2014 , 4, 4120	4.9	37
151	Research Update: Spatially resolved mapping of electronic structure on atomic level by multivariate statistical analysis. <i>APL Materials</i> , 2014 , 2, 120701	5.7	10
150	Neutron Scattering of CeNi at the SNS-ORNL: A Preliminary Report. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1683, 26		
149	Ternary chalcogenides $\text{Cs}_2\text{Zn}_3\text{Se}_4$ and $\text{Cs}_2\text{Zn}_3\text{Te}_4$: Potential p-type transparent conducting materials. <i>Physical Review B</i> , 2014 , 90,	3.3	8
148	NMR investigation of spin correlations in BaCo_2As_2 . <i>Physical Review B</i> , 2014 , 90,	3.3	12
147	Crossover from spin waves to diffusive spin excitations in underdoped $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Physical Review B</i> , 2014 , 89,	3.3	14
146	High pressure effects on the superconductivity in rare-earth-doped CaFe_2As_2 . <i>High Pressure Research</i> , 2014 , 34, 49-58	1.6	4
145	Cu substitution effects on the local magnetic properties of $\text{Ba}(\text{Fe}_{1-x}\text{Cu}_x)_2\text{As}_2$: a site-selective (⁷⁵ As and (⁶³ Cu) NMR study. <i>Physical Review Letters</i> , 2014 , 113, 117001	7.4	18
144	Evolution of antiferromagnetic susceptibility under uniaxial pressure in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Physical Review B</i> , 2014 , 89,	3.3	21
143	Infrared pseudogap in cuprate and pnictide high-temperature superconductors. <i>Physical Review B</i> , 2014 , 90,	3.3	19
142	$\text{U}_3\text{F}_{12}(\text{H}_2\text{O})$, a noncentrosymmetric uranium(IV) fluoride prepared via a convenient in situ route that creates U^{4+} under mild hydrothermal conditions. <i>Inorganic Chemistry</i> , 2013 , 52, 8303-5	5.1	31
141	Crystal, magnetic, and electronic structures, and properties of new BaMnPnF (Pn = As, Sb, Bi). <i>Scientific Reports</i> , 2013 , 3, 2154	4.9	21

140	Crystal growth of new hexahydroxometallates using a hydroflux. <i>Inorganic Chemistry</i> , 2013 , 52, 11723-33.	3.1	36
139	Absence of structural transition in $M_{0.5}IrTe_2$ ($M = Mn, Fe, Co, Ni$). <i>Physical Review B</i> , 2013 , 88,	3.3	5
138	Neutron Diffraction and Magnetic Susceptibility Studies on a High-Voltage $Li_{1.2}Mn_{0.55}Ni_{0.15}Co_{0.10}O_2$ Lithium Ion Battery Cathode: Insight into the Crystal Structure. <i>Chemistry of Materials</i> , 2013 , 25, 4064-4070	9.6	76
137	Local crystallography analysis for atomically resolved scanning tunneling microscopy images. <i>Nanotechnology</i> , 2013 , 24, 415707	3.4	12
136	Correlating cation ordering and voltage fade in a lithium-manganese-rich lithium-ion battery cathode oxide: a joint magnetic susceptibility and TEM study. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 19496-509	3.6	91
135	Bulk synthesis of iron-based superconductors. <i>Current Opinion in Solid State and Materials Science</i> , 2013 , 17, 59-64	12	32
134	Crystal growth, structural characterization, and magnetic properties of new uranium(IV) containing mixed metal oxalates: $Na_2U_2M(C_2O_4)_6(H_2O)_4$ ($M = Mn^{2+}, Fe^{2+}, Co^{2+},$ and Zn^{2+}). <i>Inorganic Chemistry</i> , 2013 , 52, 2199-207	5.1	28
133	Direct probe of interplay between local structure and superconductivity in $FeTe_{1-x}Be_x$. <i>ACS Nano</i> , 2013 , 7, 2634-41	16.7	23
132	Electronic Band Structure of $BaCo_2As_2$: A Fully Doped Ferropnictide Analog with Reduced Electronic Correlations. <i>Physical Review X</i> , 2013 , 3,	9.1	37
131	Investigating phase transformation in the $Li_{1.2}Co_{0.1}Mn_{0.55}Ni_{0.15}O_2$ lithium-ion battery cathode during high-voltage hold (4.5 V) via magnetic, X-ray diffraction and electron microscopy studies. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6249	13	109
130	Crystals, magnetic and electronic properties of a new $ThCr_2Si_2$ -type $BaMn_2Bi_2$ and K-doped compositions. <i>Journal of Solid State Chemistry</i> , 2013 , 204, 32-39	3.3	29
129	Crystal growth, structure, polarization, and magnetic properties of cesium vanadate, $Cs_2V_3O_8$: a structure-property study. <i>Inorganic Chemistry</i> , 2013 , 52, 6179-86	5.1	32
128	Doping dependence of the spin excitations in the Fe-based superconductors $Fe_{1+y}Te_{1-x}Se_x$. <i>Physical Review B</i> , 2013 , 87,	3.3	11
127	Influence of spin fluctuations on the thermal conductivity in superconducting $Ba(Fe_{1-x}Co_x)_2As_2$. <i>Physical Review B</i> , 2013 , 88,	3.3	9
126	Effect of pressure, temperature, fluorine doping, and rare earth elements on the phonon density of states of $LiFeAsO$ studied by nuclear inelastic scattering. <i>Physical Review B</i> , 2013 , 87,	3.3	9
125	Interlayer coherence and superconducting condensate in the c-axis response of optimally doped $Ba(Fe_{1-x}Co_x)_2As_2$ high- T_c superconductor using infrared spectroscopy. <i>Physical Review Letters</i> , 2013 , 110, 097003	7.4	35
124	Crystal and electronic structures of metallic $Ba_2Pd_5Ge_4$. <i>Dalton Transactions</i> , 2012 , 41, 12920-5	4.3	1
123	Metallic properties of $Ba_2Cu_3P_4$ and $BaCu_2Pn_2$ ($Pn=As, Sb$). <i>Journal of Solid State Chemistry</i> , 2012 , 191, 213-219	3.3	20

122	Direct probe of the variability of Coulomb correlation in iron pnictide superconductors. <i>Physical Review B</i> , 2012 , 85,	3.3	4
121	Infrared measurement of the pseudogap of P-doped and Co-doped high-temperature BaFe ₂ As ₂ superconductors. <i>Physical Review Letters</i> , 2012 , 109, 027006	7.4	54
120	Effect of uniaxial strain on the structural and magnetic phase transitions in BaFe ₂ As ₂ . <i>Physical Review Letters</i> , 2012 , 108, 087001	7.4	85
119	Pressure-induced superconductivity in Ba _{0.5} Sr _{0.5} Fe ₂ As ₂ . <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 495702	1.8	1
118	Properties of binary transition-metal arsenides (TAs). <i>Superconductor Science and Technology</i> , 2012 , 25, 084016	3.1	46
117	Temperature-composition phase diagrams for Ba _{1-x} Sr _x Fe ₂ As ₂ (0 ≤ x ≤ 1) and superconducting Ba _{0.5} Sr _{0.5} (Fe _{1-x} Co _x) ₂ As ₂ (0 ≤ x ≤ 0.141). <i>Physical Review B</i> , 2012 , 86,	3.3	8
116	High-pressure structural phase transitions in chromium-doped BaFe ₂ As ₂ . <i>Journal of Physics: Conference Series</i> , 2012 , 377, 012016	0.3	4
115	Direct measurement of the magnetic penetration depth by magnetic force microscopy. <i>Superconductor Science and Technology</i> , 2012 , 25, 112001	3.1	11
114	Magnetic properties of single crystal EuCo ₂ As ₂ . <i>Journal of Applied Physics</i> , 2012 , 111, 07E106	2.5	22
113	Effect of molybdenum 4d hole substitution in BaFe ₂ As ₂ . <i>Physical Review B</i> , 2012 , 85,	3.3	25
112	Electronic correlations and unconventional spectral weight transfer in the high-temperature pnictide BaFe _(2-x) Co _(x) As ₂ superconductor using infrared spectroscopy. <i>Physical Review Letters</i> , 2012 , 108, 147002	7.4	56
111	Coupled structural and magnetic antiphase domain walls on BaFe ₂ As ₂ . <i>Physical Review B</i> , 2012 , 86,	3.3	12
110	Itinerant electrons, local moments, and magnetic correlations in the pnictide superconductors CeFeAsO _{1-x} F _x and Sr(Fe _{1-x} Co _x) ₂ As ₂ . <i>Physical Review B</i> , 2012 , 85,	3.3	39
109	High-resolution x-ray scattering studies of structural phase transitions in Ba(Fe _{1-x} Cr _x) ₂ As ₂ . <i>Physical Review B</i> , 2012 , 85,	3.3	7
108	NMR search for the spin nematic state in a LaFeAsO single crystal. <i>Physical Review Letters</i> , 2012 , 109, 247001	7.4	62
107	Specific heat to H _{c2} : Evidence for nodes or deep minima in the superconducting gap of underdoped and overdoped Ba(Fe _{1-x} Co _x) ₂ As ₂ . <i>Physical Review B</i> , 2012 , 86,	3.3	16
106	Evolution of the nuclear and magnetic structures of TlFe _{1.6} Se ₂ with temperature. <i>Physical Review B</i> , 2012 , 85,	3.3	11
105	Magnetism and disorder effects on muon spin rotation measurements of the magnetic penetration depth in iron-arsenic superconductors. <i>Physical Review Letters</i> , 2011 , 106, 127002	7.4	26

104	Effect of carrier doping on the formation and collapse of magnetic polarons in lightly hole-doped $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$. <i>Physical Review B</i> , 2011 , 83,	3-3	21
103	Nanoscale chemical phase separation in $\text{FeTe}_{0.55}\text{Se}_{0.45}$ as seen via scanning tunneling spectroscopy. <i>Physical Review B</i> , 2011 , 83,	3-3	60
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