

Michael A McGuire

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294
papers

17,088
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60
h-index

125
g-index

335
ext. papers

20,783
ext. citations

6.5
avg, IF

6.77
L-index

#	Paper	IF	Citations
294	Layer-dependent ferromagnetism in a van der Waals crystal down to the monolayer limit. <i>Nature</i> , 2017 , 546, 270-273	50.4	2210
293	Superconductivity at 22 K in Co-doped BaFe ₂ As ₂ crystals. <i>Physical Review Letters</i> , 2008 , 101, 117004	7.4	940
292	Electrical control of 2D magnetism in bilayer CrI ₃ . <i>Nature Nanotechnology</i> , 2018 , 13, 544-548	28.7	626
291	Giant tunneling magnetoresistance in spin-filter van der Waals heterostructures. <i>Science</i> , 2018 , 360, 1214-1218	33.3	555
290	Coupling of Crystal Structure and Magnetism in the Layered, Ferromagnetic Insulator CrI ₃ . <i>Chemistry of Materials</i> , 2015 , 27, 612-620	9.6	501
289	Two-band superconductivity in LaFeAsO _{0.89} F _{0.11} at very high magnetic fields. <i>Nature</i> , 2008 , 453, 903-50.4	50.4	450
288	Giant anharmonic phonon scattering in PbTe. <i>Nature Materials</i> , 2011 , 10, 614-9	27	442
287	Van der Waals engineering of ferromagnetic semiconductor heterostructures for spin and valleytronics. <i>Science Advances</i> , 2017 , 3, e1603113	14.3	419
286	Bulk superconductivity at 14 K in single crystals of Fe _{1+y} Te _x Se _{1-x} . <i>Physical Review B</i> , 2009 , 79,	3.3	360
285	Small anisotropy, weak thermal fluctuations, and high field superconductivity in Co-doped iron pnictide Ba(Fe _{1-x} Co _x) ₂ As ₂ . <i>Applied Physics Letters</i> , 2009 , 94, 062511	3.4	300
284	Superconductivity in LaFe _{1-x} Co _x AsO. <i>Physical Review B</i> , 2008 , 78,	3.3	289
283	Effects of nematic fluctuations on the elastic properties of iron arsenide superconductors. <i>Physical Review Letters</i> , 2010 , 105, 157003	7.4	283
282	Phase transitions in LaFeAsO: Structural, magnetic, elastic, and transport properties, heat capacity and Mössbauer spectra. <i>Physical Review B</i> , 2008 , 78,	3.3	270
281	Two-dimensional resonant magnetic excitation in BaFe _{1.84} Co _{0.16} As ₂ . <i>Physical Review Letters</i> , 2009 , 102, 107005	7.4	228
280	New Fe-based superconductors: properties relevant for applications. <i>Superconductor Science and Technology</i> , 2010 , 23, 034003	3.1	228
279	Contrasting spin dynamics between underdoped and overdoped Ba(Fe _{1-x} Co _x) ₂ As ₂ . <i>Physical Review Letters</i> , 2010 , 104, 037001	7.4	209
278	Electronic correlations in the superconductor LaFeAsO _{0.89} F _{0.11} with low carrier density. <i>Physical Review B</i> , 2008 , 77,	3.3	206

277	Crystal and Magnetic Structures in Layered, Transition Metal Dihalides and Trihalides. <i>Crystals</i> , 2017 , 7, 121	2.3	195
276	Switching 2D magnetic states via pressure tuning of layer stacking. <i>Nature Materials</i> , 2019 , 18, 1298-1302		194
275	Ligand-field helical luminescence in a 2D ferromagnetic insulator. <i>Nature Physics</i> , 2018 , 14, 277-281	16.2	192
274	Highly Robust Lithium Ion Battery Anodes from Lignin: An Abundant, Renewable, and Low-Cost Material. <i>Advanced Functional Materials</i> , 2014 , 24, 86-94	15.6	173
273	Giant nonreciprocal second-harmonic generation from antiferromagnetic bilayer CrI. <i>Nature</i> , 2019 , 572, 497-501	50.4	172
272	Valley Manipulation by Optically Tuning the Magnetic Proximity Effect in WSe/CrI Heterostructures. <i>Nano Letters</i> , 2018 , 18, 3823-3828	11.5	159
271	Metal Thio- and Selenophosphates as Multifunctional van der Waals Layered Materials. <i>Advanced Materials</i> , 2017 , 29, 1602852	24	156
270	Spin Susceptibility, Phase Diagram, and Quantum Criticality in the Electron-Doped High Tc Superconductor Ba(Fe _{1-x} Co _x) ₂ As ₂ . <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 013711	1.5	153
269	Static and dynamic magnetism in underdoped superconductor BaFe _{1.92} Co _{0.08} As ₂ . <i>Physical Review Letters</i> , 2009 , 103, 087002	7.4	145
268	Evolution of spin excitations into the superconducting state in FeTe _{1-x} Sex. <i>Nature Physics</i> , 2010 , 6, 182-186	16.2	142
267	Magnetic behavior and spin-lattice coupling in cleavable van der Waals layered CrCl ₃ crystals. <i>Physical Review Materials</i> , 2017 , 1,	3.2	141
266	Magnetic structure and phase stability of the van der Waals bonded ferromagnet Fe ₃ GeTe ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	125
265	Glass-like phonon scattering from a spontaneous nanostructure in AgSbTe ₂ . <i>Nature Nanotechnology</i> , 2013 , 8, 445-51	28.7	122
264	Atomically Thin CrCl: An In-Plane Layered Antiferromagnetic Insulator. <i>Nano Letters</i> , 2019 , 19, 3993-3998	1.5	120
263	Ferromagnetism Near Room Temperature in the Cleavable van der Waals Crystal FeGeTe. <i>ACS Nano</i> , 2019 , 13, 4436-4442	16.7	119
262	F ¹⁹ NMR investigation of the iron pnictide superconductor LaFeAsO _{0.89} F _{0.11} . <i>Physical Review B</i> , 2008 , 78,	3.3	119
261	Two-channel model for ultralow thermal conductivity of crystalline TlVSe. <i>Science</i> , 2018 , 360, 1455-1458	33.3	110
260	Comparative high-field magnetotransport of the oxypnictide superconductors RFeAsO _{1-x} F _x (R=La, Nd) and SmFeAsO. <i>Physical Review B</i> , 2008 , 78,	3.3	109

259	Anisotropy of the Upper Critical Field in a Co-Doped BaFe ₂ As ₂ Single Crystal. <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 084719	1.5	102
258	Influence of the rare-earth element on the effects of the structural and magnetic phase transitions in CeFeAsO, PrFeAsO and NdFeAsO. <i>New Journal of Physics</i> , 2009 , 11, 025011	2.9	102
257	Binder Jetting: A Novel NdFeB Bonded Magnet Fabrication Process. <i>Jom</i> , 2016 , 68, 1978-1982	2.1	98
256	⁵⁹ Co and ⁷⁵ As NMR Investigation of Electron-Doped High T _c Superconductor BaFe _{1.8} Co _{0.2} As ₂ (T _c = 22 K). <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 103705	1.5	96
255	Evidence for strong itinerant spin fluctuations in the normal state of CeFeAsO _{0.89} F _{0.11} iron-oxypnictide superconductors. <i>Physical Review Letters</i> , 2008 , 101, 267001	7.4	95
254	Absence of superconductivity in hole-doped BaFe _{2-x} Cr _x As ₂ single crystals. <i>Physical Review B</i> , 2009 , 79,	3.3	94
253	Renormalized behavior and proximity of BaCo ₂ As ₂ to a magnetic quantum critical point. <i>Physical Review B</i> , 2009 , 79,	3.3	93
252	Pulsed Laser Deposition of Photoresponsive Two-Dimensional GaSe Nanosheet Networks. <i>Advanced Functional Materials</i> , 2014 , 24, 6365-6371	15.6	90
251	Metallic "ferroelectricity" in the pyrochlore Cd ₂ Re ₂ O ₇ . <i>Physical Review Letters</i> , 2004 , 92, 065501	7.4	90
250	Evidence for three-dimensional Fermi-surface topology of the layered electron-doped iron superconductor Ba(Fe _{1-x} Co _x) ₂ As ₂ . <i>Physical Review B</i> , 2009 , 79,	3.3	89
249	Magnetic phase transition in single crystals of the chiral helimagnet Cr _{1/3} NbS ₂ . <i>Physical Review B</i> , 2013 , 87,	3.3	86
248	Voltage Control of a van der Waals Spin-Filter Magnetic Tunnel Junction. <i>Nano Letters</i> , 2019 , 19, 915-920	1.5	80
247	Structure and anisotropic properties of BaFe _{2-x} Ni _x As ₂ (x=0, 1, and 2) single crystals. <i>Physical Review B</i> , 2009 , 79,	3.3	80
246	Emergent phenomena and proximity effects in two-dimensional magnets and heterostructures. <i>Nature Materials</i> , 2020 , 19, 1276-1289	27	80
245	Phonon density of states and heat capacity of La _{3-x} Te ₄ . <i>Physical Review B</i> , 2009 , 80,	3.3	78
244	Evolution of structural, magnetic, and transport properties in MnBi _{2-x} Sb _x Te ₄ . <i>Physical Review B</i> , 2019 , 100,	3.3	77
243	Materials Chemistry of BaFe ₂ As ₂ : A Model Platform for Unconventional Superconductivity. <i>Chemistry of Materials</i> , 2010 , 22, 715-723	9.6	68
242	Long-Range Antiferromagnetic Order in a Rocksalt High Entropy Oxide. <i>Chemistry of Materials</i> , 2019 , 31, 3705-3711	9.6	66

241	Layer-resolved magnetic proximity effect in van der Waals heterostructures. <i>Nature Nanotechnology</i> , 2020 , 15, 187-191	28.7	66
240	Effect of Eu magnetism on the electronic properties of the candidate Dirac material EuMnBi ₂ . <i>Physical Review B</i> , 2014 , 90,	3.3	65
239	Phonon density of states of LaFeAsO(1-x)Fx. <i>Physical Review Letters</i> , 2008 , 101, 157004	7.4	63
238	Cerium-Based, Intermetallic-Strengthened Aluminum Casting Alloy: High-Volume Co-product Development. <i>Jom</i> , 2016 , 68, 1940-1947	2.1	61
237	Tunable quadruple-well ferroelectric van der Waals crystals. <i>Nature Materials</i> , 2020 , 19, 43-48	27	61
236	Low-temperature heat capacity and localized vibrational modes in natural and synthetic tetrahedrites. <i>Journal of Applied Physics</i> , 2014 , 115, 193515	2.5	60
235	Nanoscale chemical phase separation in FeTe _{0.55} Se _{0.45} as seen via scanning tunneling spectroscopy. <i>Physical Review B</i> , 2011 , 83,	3.3	60
234	Anomalous compressibility effects and superconductivity of EuFe ₂ As ₂ under high pressures. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 292202	1.8	59
233	Unusual relationship between magnetism and superconductivity in FeTe(0.5)Se(0.5). <i>Physical Review Letters</i> , 2010 , 104, 187002	7.4	59
232	Thermoelectric properties of Co-, Ir-, and Os-doped FeSi alloys: Evidence for strong electron-phonon coupling. <i>Physical Review B</i> , 2011 , 83,	3.3	59
231	Thermoelectric transport properties of CaMg ₂ Bi ₂ , EuMg ₂ Bi ₂ , and YbMg ₂ Bi ₂ . <i>Physical Review B</i> , 2012 , 85,	3.3	58
230	Surface geometric and electronic structures of BaFe ₂ As ₂ (001). <i>Physical Review Letters</i> , 2009 , 103, 076104	7.4	58
229	Evidence for electromagnetic granularity in the polycrystalline iron-based superconductor LaO _{0.89} F _{0.11} FeAs. <i>Applied Physics Letters</i> , 2008 , 92, 252501	3.4	58
228	Doping-dependent specific heat study of the superconducting gap in Ba(Fe _{1-x} Cox) ₂ As ₂ . <i>Physical Review B</i> , 2010 , 81,	3.3	56
227	Itinerant antiferromagnetism in BaCr ₂ As ₂ : Experimental characterization and electronic structure calculations. <i>Physical Review B</i> , 2009 , 79,	3.3	56
226	Phonons in doped and undoped BaFe ₂ As ₂ investigated by inelastic x-ray scattering. <i>Physical Review B</i> , 2009 , 80,	3.3	54
225	Tuning inelastic light scattering via symmetry control in the two-dimensional magnet CrI. <i>Nature Nanotechnology</i> , 2020 , 15, 212-216	28.7	54
224	Four-well tunneling States and elastic response of clathrates. <i>Physical Review Letters</i> , 2004 , 92, 185502	7.4	53

223	Synthesis, Crystal and Electronic Structures, and Optical Properties of (CHNH)CdX (X = Cl, Br, I). <i>Inorganic Chemistry</i> , 2017 , 56, 13878-13888	5.1	51
222	Origin of the phase transition in IrTe ₂ : Structural modulation and local bonding instability. <i>Physical Review B</i> , 2013 , 88,	3.3	51
221	Structure and properties of single crystalline CaMg ₂ Bi ₂ , EuMg ₂ Bi ₂ , and YbMg ₂ Bi ₂ . <i>Inorganic Chemistry</i> , 2011 , 50, 11127-33	5.1	51
220	Direct observation of two-dimensional magnons in atomically thin CrI ₃ . <i>Nature Physics</i> , 2021 , 17, 20-25	16.2	49
219	Effect of pressure on the superconducting critical temperature of La[O _{0.89} F _{0.11}]FeAs and Ce[O _{0.88} F _{0.12}]FeAs. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 2229-2232	1.3	48
218	Exploring Thallium Compounds as Thermoelectric Materials: Seventeen New Thallium Chalcogenides. <i>Chemistry of Materials</i> , 2005 , 17, 2875-2884	9.6	47
217	Pressure effects on the electron-doped high-T _c superconductor BaFe _{2-x} CoxAs ₂ . <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 472201	1.8	44
216	Ferromagnetism of Fe ₃ Sn and alloys. <i>Scientific Reports</i> , 2014 , 4, 7024	4.9	42
215	Magnetic phase transitions in NdCoAsO. <i>Physical Review B</i> , 2010 , 81,	3.3	42
214	Digital transfer growth of patterned 2D metal chalcogenides by confined nanoparticle evaporation. <i>ACS Nano</i> , 2014 , 8, 11567-75	16.7	39
213	High-T _c Layered Ferrielectric Crystals by Coherent Spinodal Decomposition. <i>ACS Nano</i> , 2015 , 9, 12365-73	16.7	39
212	Spectroscopic dielectric tensor of monoclinic crystals: CdWO ₄ . <i>Physical Review B</i> , 2011 , 84,	3.3	39
211	Gap structure in the electron-doped iron arsenide superconductor Ba(Fe _{0.92} Co _{0.08}) ₂ As ₂ : low-temperature specific heat study. <i>New Journal of Physics</i> , 2010 , 12, 023006	2.9	39
210	Itinerant electrons, local moments, and magnetic correlations in the pnictide superconductors CeFeAsO _{1-x} F _x and Sr(Fe _{1-x} Cox) ₂ As ₂ . <i>Physical Review B</i> , 2012 , 85,	3.3	39
209	Properties of single crystalline AZn ₂ Sb ₂ (A = Ca, Eu, Yb). <i>Journal of Applied Physics</i> , 2012 , 111, 033708	2.5	39
208	A-type antiferromagnetic order in MnBi ₄ Te ₇ and MnBi ₆ Te ₁₀ single crystals. <i>Physical Review Materials</i> , 2020 , 4,	3.2	39
207	Size-effect in layered ferrielectric CuInP ₂ S ₆ . <i>Applied Physics Letters</i> , 2016 , 109, 172901	3.4	39
206	Symmetry-lowering lattice distortion at the spin reorientation in MnBi single crystals. <i>Physical Review B</i> , 2014 , 90,	3.3	38

205	Electronic phase diagram of the iron-based high-Tc superconductor Ba(Fe _{1-x} Co _x) ₂ As ₂ under hydrostatic pressure (0-0.099). <i>Physical Review B</i> , 2009 , 79,	3-3	38
204	Structural phase transition and phonon instability in Cu ₁₂ Sb ₄ S ₁₃ . <i>Physical Review B</i> , 2016 , 93,	3-3	37
203	Hard ferromagnetism in melt-spun Hf ₂ Co ₁₁ B alloys. <i>Applied Physics Letters</i> , 2012 , 101, 202401	3-4	37
202	Phase transition and superconductivity of SrFe(2)As(2) under high pressure. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 122201	1.8	37
201	Quantum Critical Behavior in a Concentrated Ternary Solid Solution. <i>Scientific Reports</i> , 2016 , 6, 26179	4-9	36
200	Differentiation of Surface and Bulk Conductivities in Topological Insulators via Four-Probe Spectroscopy. <i>Nano Letters</i> , 2016 , 16, 2213-20	11.5	36
199	C59o and A75s NMR investigation of lightly doped Ba(Fe _{1-x} Co _x) ₂ As ₂ (x=0.02,0.04). <i>Physical Review B</i> , 2009 , 79,	3-3	36
198	Suppression of spin density wave by isoelectronic substitution in PrFe _{1-x} Ru _x AsO. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 2326-2331	3-3	36
197	Locally Controlled Cu-Ion Transport in Layered Ferroelectric CuInPS. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27188-27194	9-5	35
196	Electronic and thermoelectric properties of CoSbS and FeSbS. <i>Physical Review B</i> , 2013 , 87,	3-3	34
195	High pressure floating zone growth and structural properties of ferrimagnetic quantum paraelectric BaFe ₁₂ O ₁₉ . <i>APL Materials</i> , 2015 , 3, 062512	5-7	34
194	BaT ₂ As ₂ single crystals (T=Fe, Co, Ni) and superconductivity upon Co-doping. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 350-354	1-3	34
193	Tl ₂ AXTe ₄ (A = Cd, Hg, Mn; X = Ge, Sn): Crystal Structure, Electronic Structure, and Thermoelectric Properties. <i>Chemistry of Materials</i> , 2005 , 17, 6186-6191	9-6	34
192	Magnetic proximity and nonreciprocal current switching in a monolayer WTe helical edge. <i>Nature Materials</i> , 2020 , 19, 503-507	27	32
191	Detecting magnetic ordering with atomic size electron probes. <i>Advanced Structural and Chemical Imaging</i> , 2016 , 2,	3-9	32
190	Transport, thermal, and magnetic properties of the narrow-gap semiconductor CrSb ₂ . <i>Physical Review B</i> , 2012 , 86,	3-3	32
189	Kinetically inhibited order in a diamond-lattice antiferromagnet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15693-8	11.5	31
188	High-resolution measurements of the thermal expansion of superconducting Co-doped BaFe ₂ As ₂ . <i>Physical Review B</i> , 2009 , 79,	3-3	31

187	Physical properties and thermal stability of Fe ₅ GeTe ₂ single crystals. <i>Physical Review Materials</i> , 2019 , 3,	3.2	31
186	Structure and property correlations in FeS. <i>Physica C: Superconductivity and Its Applications</i> , 2017 , 534, 29-36	1.3	29
185	Antiferromagnetism in the van der Waals layered spin-lozenge semiconductor CrTe ₃ . <i>Physical Review B</i> , 2017 , 95,	3.3	28
184	High-temperature magnetostructural transition in van der Waals-layered MoCl ₃ . <i>Physical Review Materials</i> , 2017 , 1,	3.2	28
183	A semimetal model of the normal state magnetic susceptibility and transport properties of Ba(Fe _{1-x} Cox) ₂ As ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, 304-308	1.3	27
182	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
181	Search for pressure-induced superconductivity in CeFeAsO and CeFePO iron pnictides. <i>Physical Review B</i> , 2011 , 83,	3.3	26
180	Electronic structure of CeFeAsO _{1-x} Fx (x=0, 0.11, and 0.12). <i>Physical Review B</i> , 2010 , 82,	3.3	26
179	Hydrothermal Synthesis and Characterization of Novel Brackebuschite-Type Transition Metal Vanadates: Ba ₂ M(VO ₄) ₂ (OH), M = V(3+), Mn(3+), and Fe(3+), with Interesting Jahn-Teller and Spin-Liquid Behavior. <i>Inorganic Chemistry</i> , 2015 , 54, 7014-20	5.1	25
178	Cation-Eutectic Transition via Sublattice Melting in CuInPS/InPS van der Waals Layered Crystals. <i>ACS Nano</i> , 2017 , 11, 7060-7073	16.7	25
177	2Flux growth and characterization of Ce-substituted Nd ₂ Fe ₁₄ B single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 434, 1-9	2.8	25
176	Spin reorientation in TlFe _{1.6} Se ₂ with complete vacancy ordering. <i>Physical Review Letters</i> , 2012 , 109, 077003	7.4	25
175	Effect of molybdenum 4d hole substitution in BaFe ₂ As ₂ . <i>Physical Review B</i> , 2012 , 85,	3.3	25
174	Giant negative electrostriction and dielectric tunability in a van der Waals layered ferroelectric. <i>Physical Review Materials</i> , 2019 , 3,	3.2	25
173	Effects of chemical pressure on the magnetic ground states of the osmate double perovskites SrCaCoOsO ₆ and Ca ₂ CoOsO ₆ . <i>Physical Review B</i> , 2015 , 92,	3.3	24
172	Flux growth in a horizontal configuration: An analog to vapor transport growth. <i>Physical Review Materials</i> , 2017 , 1,	3.2	24
171	Extended magnetic exchange interactions in the high-temperature ferromagnet MnBi. <i>Applied Physics Letters</i> , 2016 , 108, 192403	3.4	24
170	Negative thermal expansion and magnetoelastic coupling in the breathing pyrochlore lattice material LiGaCr ₄ S ₈ . <i>Physical Review B</i> , 2018 , 97,	3.3	23

169	Slater Insulator in Iridate Perovskites with Strong Spin-Orbit Coupling. <i>Physical Review Letters</i> , 2016 , 117, 176603	7.4	23
168	Magnetic and structural properties of ferromagnetic Fe ₅ PB ₂ and Fe ₅ SiB ₂ and effects of Co and Mn substitutions. <i>Journal of Applied Physics</i> , 2015 , 118, 163903	2.5	23
167	Structural and magnetic characterization of the one-dimensional S=5/2 antiferromagnetic chain system SrMn(VO ₄)(OH). <i>Physical Review B</i> , 2016 , 93,	3.3	22
166	Transport and optical properties of heavily hole-doped semiconductors BaCu ₂ Se ₂ and BaCu ₂ Te ₂ . <i>Journal of Solid State Chemistry</i> , 2011 , 184, 2744-2750	3.3	22
165	Honeycomb-like S = 5/2 Spin-Lattices in Manganese(II) Vanadates. <i>Inorganic Chemistry</i> , 2016 , 55, 9240-9	5.1	21
164	Short- and long-range magnetic order in LaMnAsO. <i>Physical Review B</i> , 2016 , 93,	3.3	21
163	Monolithic Composite Electrodes Comprising Silicon Nanoparticles Embedded in Lignin-derived Carbon Fibers for Lithium-Ion Batteries. <i>Energy Technology</i> , 2014 , 2, 773-777	3.5	21
162	Dielectric-constant-enhanced hall mobility in complex oxides. <i>Advanced Materials</i> , 2012 , 24, 3965-9	2.4	21
161	Pressure effects on the transport coefficients of Ba(Fe _{1-x} Co _x) ₂ As ₂ . <i>Physical Review B</i> , 2011 , 84,	3.3	21
160	Transport properties of undoped and Br-doped PbTe sintered at high-temperature and pressure 0.0GPa. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 2602-2607	3.3	21
159	Unusual phase transitions and magnetoelastic coupling in TlFe _{1.6} Se ₂ single crystals. <i>Physical Review B</i> , 2011 , 83,	3.3	21
158	Competing magnetic phases and fluctuation-driven scalar spin chirality in the kagome metal YMnSn. <i>Science Advances</i> , 2020 , 6,	14.3	21
157	Direct visualization of magnetic domains and moiré magnetism in twisted 2D magnets. <i>Science</i> , 2021 , 374, 1140-1144	33.3	21
156	New insights into the structure, chemistry, and properties of Cu ₄ SnS ₄ . <i>Journal of Solid State Chemistry</i> , 2017 , 253, 192-201	3.3	20
155	Orbital symmetry of Ba(Fe _{1-x} Co _x) ₂ As ₂ superconductors probed with x-ray absorption spectroscopy. <i>Physical Review B</i> , 2010 , 81,	3.3	20
154	Piezoelectric domain walls in van der Waals antiferroelectric CuInPSe. <i>Nature Communications</i> , 2020 , 11, 3623	17.4	20
153	Point-contact spectroscopic studies on normal and superconducting AFe ₂ As ₂ -type iron pnictide single crystals. <i>Superconductor Science and Technology</i> , 2010 , 23, 054009	3.1	19
152	Local structural variation as source of magnetic moment reduction in BaFe ₂ As ₂ . <i>Physical Review B</i> , 2012 , 86,	3.3	19

151	W6S8 Inorganic Clusters with Organic TTF Derivative Ligands: in Pursuit of Multidimensional Conductive Networks. <i>Chemistry of Materials</i> , 2006 , 18, 4296-4306	9.6	19
150	Quantitative Analysis of the Local Phase Transitions Induced by Laser Heating. <i>ACS Nano</i> , 2015 , 9, 12442-12457	5.7	18
149	Magnetic order and interactions in ferrimagnetic Mn ₃ Si ₂ Te ₆ . <i>Physical Review B</i> , 2017 , 95,	3.3	18
148	Temperature and pressure dependence of the Fe-specific phonon density of states in Ba(Fe _{1-x} Co _x) ₂ As ₂ . <i>Physical Review B</i> , 2010 , 81,	3.3	18
147	Effects of high-pressure high-temperature treatment on the thermoelectric properties of PbTe. <i>Journal of Alloys and Compounds</i> , 2008 , 460, 8-12	5.7	18
146	Complex itinerant ferromagnetism in noncentrosymmetric Cr ₁₁ Ge ₁₉ . <i>Physical Review B</i> , 2012 , 85,	3.3	17
145	Magnetic order in single crystals of Na ₃ Co ₂ SbO ₆ with a honeycomb arrangement of 3d ⁷ Co ²⁺ ions. <i>Physical Review Materials</i> , 2019 , 3,	3.2	17
144	A practical guide for crystal growth of van der Waals layered materials. <i>Journal of Applied Physics</i> , 2020 , 128, 051101	2.5	17
143	Polarization Control via He-Ion Beam Induced Nanofabrication in Layered Ferroelectric Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7349-55	9.5	17
142	Evolution of magnetic properties and microstructure of Hf ₂ Co ₁₁ B alloys. <i>Journal of Applied Physics</i> , 2015 , 117, 053912	2.5	16
141	Variation of physical properties in the nominal Sr ₄ V ₂ O ₆ Fe ₂ As ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2011 , 471, 143-149	1.3	16
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