

Michael A McGuire

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.

294
papers

17,088
citations

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	The Impact of Structural Distortions on the Magnetism of Double Perovskites Containing 5d1 Transition-Metal Ions. <i>Chemistry of Materials</i> , 2022 , 34, 1098-1109	9.6	0
293	Revealing room temperature ferromagnetism in exfoliated Fe5GeTe2 flakes with quantum magnetic imaging. <i>2D Materials</i> , 2022 , 9, 025017	5.9	3
292	Spin photovoltaic effect in magnetic van der Waals heterostructures. <i>Science Advances</i> , 2021 , 7, eabg8094	14.3	0
291	Direct visualization of magnetic domains and moiré magnetism in twisted 2D magnets. <i>Science</i> , 2021 , 374, 1140-1144	33.3	21
290	Self-regulated growth of candidate topological superconducting parkerite by molecular beam epitaxy. <i>APL Materials</i> , 2021 , 9, 101110	5.7	0
289	Magnetism and Its Structural Coupling Effects in 2D Ising Ferromagnetic Insulator VI. <i>Nano Letters</i> , 2021 , 21, 9180-9186	11.5	7
288	A Catastrophic Charge Density Wave in BaFe2Al9. <i>Chemistry of Materials</i> , 2021 , 33, 2855-2863	9.6	3
287	Tuning the flat bands of the kagome metal CoSn with Fe, In, or Ni doping. <i>Physical Review Materials</i> , 2021 , 5,	3.2	2
286	Site Mixing for Engineering Magnetic Topological Insulators. <i>Physical Review X</i> , 2021 , 11,	9.1	14
285	Direct observation of two-dimensional magnons in atomically thin CrI3. <i>Nature Physics</i> , 2021 , 17, 20-25	16.2	49
284	Lowering of Tc in Van Der Waals Layered Materials Under In-Plane Strain. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 253-258	3.2	1
283	Stacking Faults and Short-Range Magnetic Correlations in Single Crystal Y5Ru2O12: A Structure with Ru+4.5 One-Dimensional Chains. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2000197	1.3	3
282	Effect of Processing Hydrogen Pressure on Magnetic Properties of HDDR Nd-Fe-B Magnet. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-4	2	1
281	Unusual Exchange Couplings and Intermediate Temperature Weyl State in Co3Sn2S2. <i>Physical Review Letters</i> , 2021 , 127, 117201	7.4	3
280	Antiferromagnetic Order and Linear Magnetoresistance in Fe-Substituted Shandite Co3In2S2. <i>Chemistry of Materials</i> , 2021 , 33, 9741-9749	9.6	0
279	Simultaneous mapping of nanoscale dielectric, electrochemical, and ferroelectric surface properties of van der Waals layered ferroelectric via advanced SPM. <i>Applied Physics Letters</i> , 2021 , 119, 252905	3.4	0
278	Cryo-quenched FeNiCr alloy decorative steel single crystals II: Alloy phases, structure, hardness, tensile, tribological, magnetic and electronic properties. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155169	5.7	1

277	Copper-Carbon Nanotube Composites Enabled by Electrospinning for Advanced Conductors. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6863-6875	5.6	6
276	Magnetic proximity and nonreciprocal current switching in a monolayer WTe helical edge. <i>Nature Materials</i> , 2020 , 19, 503-507	27	32
275	Domains and Topological Defects in Layered Ferrielectric Materials: Implications for Nanoelectronics. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8161-8166	5.6	2
274	Layer-resolved magnetic proximity effect in van der Waals heterostructures. <i>Nature Nanotechnology</i> , 2020 , 15, 187-191	28.7	66
273	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
272	Tuning magnetic order in the van der Waals metal Fe ₅ GeTe ₂ by cobalt substitution. <i>Physical Review Materials</i> , 2020 , 4,	3.2	15
271	Competing magnetic phases and fluctuation-driven scalar spin chirality in the kagome metal YMnSn. <i>Science Advances</i> , 2020 , 6,	14.3	21
270	Helicity-Dependent Coherent Spin-Phonon Oscillations in the Ferromagnetic van der Waals Crystal CrI ₃ 2020 ,		1
269	Tunable quadruple-well ferroelectric van der Waals crystals. <i>Nature Materials</i> , 2020 , 19, 43-48	27	61
268	Tuning inelastic light scattering via symmetry control in the two-dimensional magnet CrI. <i>Nature Nanotechnology</i> , 2020 , 15, 212-216	28.7	54
267	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
266	Synthesis, structure and magnetic properties of Ba ₃ M ₂ Ge ₄ O ₁₄ (M = Mn and Fe): Quasi-one-dimensional zigzag chain compounds. <i>Journal of Solid State Chemistry</i> , 2020 , 283, 121090	3.3	2
265	Iodine orbital moment and chromium anisotropy contributions to CrI ₃ magnetism. <i>Applied Physics Letters</i> , 2020 , 117, 022411	3.4	5
264	Piezoelectric domain walls in van der Waals antiferroelectric CuInPSe. <i>Nature Communications</i> , 2020 , 11, 3623	17.4	20
263	A practical guide for crystal growth of van der Waals layered materials. <i>Journal of Applied Physics</i> , 2020 , 128, 051101	2.5	17
262	Local Strain and Polarization Mapping in Ferrielectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38546-38553	9.5	2
261	Cleavable magnetic materials from van der Waals layered transition metal halides and chalcogenides. <i>Journal of Applied Physics</i> , 2020 , 128, 110901	2.5	8
260	Flat bands in the CoSn-type compounds. <i>Physical Review B</i> , 2020 , 102,	3.3	8

259	The Concept of Negative Capacitance in Ionically Conductive Van der Waals Ferroelectrics. <i>Advanced Energy Materials</i> , 2020 , 10, 2001726	21.8	8
258	Light induced electron spin resonance properties of van der Waals CrX ₃ (X = Cl, I) crystals. <i>Applied Physics Letters</i> , 2020 , 117, 082406	3.4	4
257	Emergent phenomena and proximity effects in two-dimensional magnets and heterostructures. <i>Nature Materials</i> , 2020 , 19, 1276-1289	27	80
256	Possible observation of Kondo screening cloud in Yb ₁₄ MnSb ₁₁ ** Dedicated to Professor M. Brian Maple on the Occasion of his 80th Birthday. View all notes. <i>Philosophical Magazine</i> , 2020 , 100, 1204-1210	1.6	0
255	Voltage Control of a van der Waals Spin-Filter Magnetic Tunnel Junction. <i>Nano Letters</i> , 2019 , 19, 915-920	1.5	80
254	Evolution of structural, magnetic, and transport properties in MnBi ₂ Sb _x Te ₄ . <i>Physical Review B</i> , 2019 , 100,	3.3	77
253	STEM Study of Structure and Local Short-Range Orders in the Fe ₅ GeTe ₂ Crystals with Ferromagnetism Near Room Temperature. <i>Microscopy and Microanalysis</i> , 2019 , 25, 956-957	0.5	
252	Surface terminations and layer-resolved tunneling spectroscopy of the 122 iron pnictide superconductors. <i>Physical Review B</i> , 2019 , 99,	3.3	12
251	Chemical disorder and spin-liquid-like magnetism in the van der Waals layered 5d transition metal halide Os _{0.55} Cl ₂ . <i>Physical Review B</i> , 2019 , 99,	3.3	11
250	Atomically Thin CrCl: An In-Plane Layered Antiferromagnetic Insulator. <i>Nano Letters</i> , 2019 , 19, 3993-3998	1.5	120
249	Long-Range Antiferromagnetic Order in a Rocksalt High Entropy Oxide. <i>Chemistry of Materials</i> , 2019 , 31, 3705-3711	9.6	66
248	Ferromagnetic Spin-1/2 Dimers with Strong Anisotropy in MoCl ₅ . <i>Chemistry of Materials</i> , 2019 , 31, 2952-2959	2	
247	Ferromagnetism Near Room Temperature in the Cleavable van der Waals Crystal FeGeTe. <i>ACS Nano</i> , 2019 , 13, 4436-4442	16.7	119
246	Effects of High Magnetic Fields on Phase Transformations in Amorphous Nd ₂ Fe ₁₄ B. <i>Magnetochemistry</i> , 2019 , 5, 16	3.1	5
245	Hydrothermal synthesis of lanthanide rhenium oxides: Structures and magnetism of Ln ₂ Re ₂ O ₇ (OH) (Ln = Pr, Nd) and Ln ₄ Re ₂ O ₁₁ (Ln = Eu, Tb). <i>Journal of Solid State Chemistry</i> , 2019 , 275, 149-158	3.3	3
244	Exotic Magnetic Field-Induced Spin-Superstructures in a Mixed Honeycomb-Triangular Lattice System. <i>Physical Review X</i> , 2019 , 9,	9.1	3
243	Electron Spin Resonance Properties of CrI ₃ and CrCl ₃ Single Crystals. <i>MRS Advances</i> , 2019 , 4, 2169-2175	0.7	3
242	Giant nonreciprocal second-harmonic generation from antiferromagnetic bilayer CrI. <i>Nature</i> , 2019 , 572, 497-501	50.4	172

241	Switching 2D magnetic states via pressure tuning of layer stacking. <i>Nature Materials</i> , 2019 , 18, 1298-1302	7	194
240	Giant negative electrostriction and dielectric tunability in a van der Waals layered ferroelectric. <i>Physical Review Materials</i> , 2019 , 3,	3.2	25
239	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
238	Physical properties and thermal stability of Fe ₅ GeTe ₂ single crystals. <i>Physical Review Materials</i> , 2019 , 3,	3.2	31
237	Electronic, magnetic, and thermodynamic properties of the kagome layer compound FeSn. <i>Physical Review Materials</i> , 2019 , 3,	3.2	13
236	High-pressure phase of CrSb ₂ : A new quasi-one-dimensional itinerant magnet with competing interactions. <i>Physical Review Materials</i> , 2019 , 3,	3.2	1
235	Magnetic Ground State Crossover in a Series of Glaserite Systems with Triangular Magnetic Lattices. <i>Inorganic Chemistry</i> , 2019 , 58, 2813-2821	5.1	6
234	Lattice distortion in the spin-orbital entangled state in RVO ₃ perovskites. <i>Physical Review B</i> , 2019 , 100,	3.3	3
233	Reorientation of antiferromagnetism in cobalt doped FeSn. <i>Physical Review B</i> , 2019 , 100,	3.3	5
232	Room-Temperature Ferromagnetic Insulating State in Cation-Ordered Double-Perovskite Sr Fe Re O Films. <i>Advanced Materials</i> , 2019 , 31, e1805389	24	10
231	The Crystal Structure and Magnetic Behavior of Quinary Osmate and Ruthenate Double Perovskites La ABB ₂ O (A = Ca, Sr; B = Co, Ni; BL = Ru, Os). <i>Inorganic Chemistry</i> , 2018 , 57, 2989-3001	5.1	15
230	Electrical control of 2D magnetism in bilayer CrI ₃ . <i>Nature Nanotechnology</i> , 2018 , 13, 544-548	28.7	626
229	Two halide-containing cesium manganese vanadates: synthesis, characterization, and magnetic properties. <i>Dalton Transactions</i> , 2018 , 47, 2619-2627	4.3	6
228	Giant tunneling magnetoresistance in spin-filter van der Waals heterostructures. <i>Science</i> , 2018 , 360, 1214-1218	33.3	555
227	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
226	LaCu _{6-x} Ag _x : A promising host of an elastic quantum critical point. <i>Physica B: Condensed Matter</i> , 2018 , 536, 479-482	2.8	1
225	Locally Controlled Cu-Ion Transport in Layered Ferroelectric CuInPS. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27188-27194	9.5	35
224	Spin freezing into a disordered state in CaFeTi ₂ O ₆ synthesized under high pressure. <i>Physical Review B</i> , 2018 , 98,	3.3	2

223	Extended exchange interactions stabilize long-period magnetic structures in Cr ₁ NbS ₂ . <i>Applied Physics Letters</i> , 2018 , 113, 032404	3.4	8
222	Giant magnetostriction effect near onset of spin reorientation in MnBi. <i>Applied Physics Letters</i> , 2018 , 112, 192411	3.4	1
221	Spin-glass behavior and vacancy order in van der Waals layered MoCl ₄ . <i>Physical Review Materials</i> , 2018 , 2,	3.2	4
220	Ligand-field helical luminescence in a 2D ferromagnetic insulator. <i>Nature Physics</i> , 2018 , 14, 277-281	16.2	192
219	Real-Space Study of Charge and Orbital Ordering in Lao.6Sr2.4Mn2O7 Manganite Single Crystal. <i>Microscopy and Microanalysis</i> , 2018 , 24, 106-107	0.5	
218	Microstructural Development in Melt-spun Nd ₂ Fe ₁₄ B Under High Magnetic Field Annealing. <i>Microscopy and Microanalysis</i> , 2018 , 24, 958-959	0.5	0
217	Tuning magnetocrystalline anisotropy by cobalt alloying in hexagonal FeGe. <i>Scientific Reports</i> , 2018 , 8, 14206	4.9	5
216	Real Space Visualization of Competing Phases in La _{0.6} Sr _{2.4} Mn ₂ O ₇ Single Crystals. <i>Chemistry of Materials</i> , 2018 , 30, 7962-7969	9.6	5
215	The magnetic order of a manganese vanadate system with two-dimensional striped triangular lattice. <i>AIP Advances</i> , 2018 , 8, 101407	1.5	3
214	Valley Manipulation by Optically Tuning the Magnetic Proximity Effect in WSe ₂ /CrI ₃ Heterostructures. <i>Nano Letters</i> , 2018 , 18, 3823-3828	11.5	159
213	Two-channel model for ultralow thermal conductivity of crystalline TlVSe. <i>Science</i> , 2018 , 360, 1455-1458	33.3	110
212	Evolution of structural and magnetic properties in La _x Ce _{2-x} Co ₁₆ Ti for 0 ≤ x ≤ 1. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 2266-2272	5.7	2
211	Magnetic field control of microstructural development in melt-spun Pr ₂ Co ₁₄ B. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 430, 85-88	2.8	4
210	Phase relationships in the CeFe ₈ Co ₃ Ti _{1-x} Si _x system. <i>Journal of Alloys and Compounds</i> , 2017 , 712, 30-35	5.7	1
209	Layer-dependent ferromagnetism in a van der Waals crystal down to the monolayer limit. <i>Nature</i> , 2017 , 546, 270-273	50.4	2210
208	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
207	Heat capacity, resistivity, and angular dependent magnetization studies of single crystal Nd _{1-x} Fe ₄ B ₄ for 0 ≤ x ≤ 1. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 435, 100-106	2.8	
206	Structure and property correlations in FeS. <i>Physica C: Superconductivity and Its Applications</i> , 2017 , 534, 29-36	1.3	29

205	Polar Materials with Isolated V4+S = 1/2 Triangles: NaSr ₂ V ₃ O ₃ (Ge ₄ O ₁₃)Cl and KSr ₂ V ₃ O ₃ (Ge ₄ O ₁₃)Cl. <i>Chemistry of Materials</i> , 2017 , 29, 1404-1412	9.6	12
204	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
203	Crystal and Magnetic Structures in Layered, Transition Metal Dihalides and Trihalides. <i>Crystals</i> , 2017 , 7, 121	2.3	195
202	Metal Thio- and Selenophosphates as Multifunctional van der Waals Layered Materials. <i>Advanced Materials</i> , 2017 , 29, 1602852	24	156
201	Van der Waals engineering of ferromagnetic semiconductor heterostructures for spin and valleytronics. <i>Science Advances</i> , 2017 , 3, e1603113	14.3	419
200	Chemical Changes in Layered Ferroelectric Semiconductors Induced by Helium Ion Beam. <i>Scientific Reports</i> , 2017 , 7, 16619	4.9	1
199	Investigation of a Structural Phase Transition and Magnetic Structure of NaBaFe(VO): A Triangular Magnetic Lattice with a Ferromagnetic Ground State. <i>Inorganic Chemistry</i> , 2017 , 56, 14842-14849	5.1	8
198	Antiferromagnetism in the van der Waals layered spin-lozenge semiconductor CrTe ₃ . <i>Physical Review B</i> , 2017 , 95,	3.3	28
197	Magnetic order and interactions in ferrimagnetic Mn ₃ Si ₂ Te ₆ . <i>Physical Review B</i> , 2017 , 95,	3.3	18
196	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
195	Quantum critical behavior in the asymptotic limit of high disorder in the medium entropy alloy NiCoCr _{0.8} . <i>Npj Quantum Materials</i> , 2017 , 2,	5	13
194	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
193	Nanofabrication Limits in Layered Ferroelectric Semiconductors via He-ion Beam. <i>Microscopy and Microanalysis</i> , 2017 , 23, 262-263	0.5	
192	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
191	Flux growth in a horizontal configuration: An analog to vapor transport growth. <i>Physical Review Materials</i> , 2017 , 1,	3.2	24
190	Magnetism and the spin state in cubic perovskite CaCoO ₃ synthesized under high pressure. <i>Physical Review Materials</i> , 2017 , 1,	3.2	8
189	High-temperature magnetostructural transition in van der Waals-layered MoCl ₃ . <i>Physical Review Materials</i> , 2017 , 1,	3.2	28
188	Giant reversible magnetocaloric effect in the pyrochlore Er ₂ Mn ₂ O ₇ due to a cooperative two-sublattice ferromagnetic order. <i>Physical Review Materials</i> , 2017 , 1,	3.2	8

187	Novel spectroscopy with atomic-size aberrated electron probes in stem 2016 , 986-987		
186	Honeycomb-like $S = 5/2$ Spin-Lattices in Manganese(II) Vanadates. <i>Inorganic Chemistry</i> , 2016 , 55, 9240-9	5.1	21
185	Structural phase transition and phonon instability in $\text{Cu}_{12}\text{Sb}_4\text{S}_{13}$. <i>Physical Review B</i> , 2016 , 93,	3.3	37
184	Fragile singlet ground-state magnetism in the pyrochlore osmates $\text{R}_2\text{Os}_2\text{O}_7$ (R=Y and Ho). <i>Physical Review B</i> , 2016 , 93,	3.3	12
183	Enhanced ferroelectric polarization and possible morphotropic phase boundary in PZT-based alloys. <i>Physical Review B</i> , 2016 , 93,	3.3	6
182	Structural and magnetic characterization of the one-dimensional $S=5/2$ antiferromagnetic chain system $\text{SrMn}(\text{VO}_4)(\text{OH})$. <i>Physical Review B</i> , 2016 , 93,	3.3	22
181	Magnetic structure and phase stability of the van der Waals bonded ferromagnet Fe_3GeTe_2 . <i>Physical Review B</i> , 2016 , 93,	3.3	125
180	Short- and long-range magnetic order in LaMnAsO . <i>Physical Review B</i> , 2016 , 93,	3.3	21
179	Superconductivity at 9 K in Mo_5Pb_2 with evidence for multiple gaps. <i>Physical Review B</i> , 2016 , 93,	3.3	10
178	Quantum Critical Behavior in a Concentrated Ternary Solid Solution. <i>Scientific Reports</i> , 2016 , 6, 26179	4.9	36
177	Slater Insulator in Iridate Perovskites with Strong Spin-Orbit Coupling. <i>Physical Review Letters</i> , 2016 , 117, 176603	7.4	23
176	Competing magnetic ground states and their coupling to the crystal lattice in CuFeGe . <i>Scientific Reports</i> , 2016 , 6, 35325	4.9	7
175	Combined Scanning Probe Microscopy and Confocal Raman Spectroscopy for Functional Imaging of the Layered Materials. <i>Microscopy and Microanalysis</i> , 2016 , 22, 218-219	0.5	1
174	Anomalous magneto-elastic and charge doping effects in thallium-doped BaFe_2As_2 . <i>Scientific Reports</i> , 2016 , 6, 21660	4.9	4
173	Detecting magnetic ordering with atomic size electron probes. <i>Advanced Structural and Chemical Imaging</i> , 2016 , 2,	3.9	32
172	Cerium-Based, Intermetallic-Strengthened Aluminum Casting Alloy: High-Volume Co-product Development. <i>Jom</i> , 2016 , 68, 1940-1947	2.1	61
171	Differentiation of Surface and Bulk Conductivities in Topological Insulators via Four-Probe Spectroscopy. <i>Nano Letters</i> , 2016 , 16, 2213-20	11.5	36
170	Differentiation of Surface and Bulk Conductivities via Four-probe Spectroscopy. <i>Microscopy and Microanalysis</i> , 2016 , 22, 384-385	0.5	

169	Manganese Vanadate Chemistry in Hydrothermal BaF Brines: BaMn(VO)F and BaMnO(VO)F. <i>Inorganic Chemistry</i> , 2016 , 55, 12512-12515	5.1	10
168	Candidate Elastic Quantum Critical Point in LaCu _{6-x} Au _{x} . <i>Physical Review Letters</i> , 2016 , 117, 235701	7.4	9
167	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
166	Extended magnetic exchange interactions in the high-temperature ferromagnet MnBi. <i>Applied Physics Letters</i> , 2016 , 108, 192403	3.4	24
165	Mapping Magnetic Ordering With Aberrated Electron Probes in STEM. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1676-1677	0.5	1
164	Size-effect in layered ferroelectric CuInP ₂ S ₆ . <i>Applied Physics Letters</i> , 2016 , 109, 172901	3.4	39
163	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
162	Binder Jetting: A Novel NdFeB Bonded Magnet Fabrication Process. <i>Jom</i> , 2016 , 68, 1978-1982	2.1	98
161	Synthesis and characterization of new fluoride-containing manganese vanadates A ₂ Mn ₂ V ₂ O ₇ F ₂ (A=Rb, Cs) and Mn ₂ VO ₄ F. <i>Journal of Solid State Chemistry</i> , 2016 , 241, 30-37	3.3	15
160	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
159	Quenching rattling modes in skutterudites with pressure. <i>Physical Review B</i> , 2015 , 91,	3.3	12
158	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
157	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
156	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
155	Quantitative Analysis of the Local Phase Transitions Induced by Laser Heating. <i>ACS Nano</i> , 2015 , 9, 12442-12457	15.0	18
154	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
153	Fragile structural transition in Mo ₃ Sb ₇ . <i>Physical Review B</i> , 2015 , 92,	3.3	3
152	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

151	Structural and magnetic phase transitions in CeCu _{6-x} Tx (T=Ag,Pd). <i>Physical Review B</i> , 2015 , 92,	3.3	5
150	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
149	Electronic and magnetic properties of Si substituted Fe ₃ Ge. <i>Journal of Applied Physics</i> , 2015 , 118, 123902.	2.5	9
148	High pressure floating zone growth and structural properties of ferrimagnetic quantum paraelectric BaFe ₂ O ₁₉ . <i>APL Materials</i> , 2015 , 3, 062512	5.7	34
147	High-Tc Layered Ferrielectric Crystals by Coherent Spinodal Decomposition. <i>ACS Nano</i> , 2015 , 9, 12365-73.	6.7	39
146	Ferromagnetism of Fe ₃ Sn and alloys. <i>Scientific Reports</i> , 2014 , 4, 7024	4.9	42
145	Pulsed Laser Deposition of Photoresponsive Two-Dimensional GaSe Nanosheet Networks. <i>Advanced Functional Materials</i> , 2014 , 24, 6365-6371	15.6	90
144	Orbital occupancy and charge doping in iron-based superconductors. <i>Advanced Materials</i> , 2014 , 26, 6193-8.	2.1	12
143	Symmetry-lowering lattice distortion at the spin reorientation in MnBi single crystals. <i>Physical Review B</i> , 2014 , 90,	3.3	38
142	Digital transfer growth of patterned 2D metal chalcogenides by confined nanoparticle evaporation. <i>ACS Nano</i> , 2014 , 8, 11567-75	16.7	39
141	Complex magnetic behavior of the sawtooth Fe chains in Rb ₂ Fe ₂ O(AsO ₄) ₂ . <i>Physical Review B</i> , 2014 , 89,	3.3	11
140	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
139	Competing magnetic phases and field-induced dynamics in DyRuAsO. <i>Physical Review B</i> , 2014 , 90,	3.3	5
138	Magnetism and Structure in Layered Iron Superconductor Systems. <i>Handbook of Magnetic Materials</i> , 2014 , 381-463	1.3	0
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