

Qiang Zhang

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.

87
papers

1,970
citations

26
h-index

42
g-index

101
ext. papers

2,580
ext. citations

6.2
avg, IF

4.89
L-index

#	Paper	IF	Citations
87	Ferromagnetic Double Perovskite Semiconductors with Tunable Properties.. <i>Advanced Science</i> , 2022 , e2104319	13.6	1
86	Spin Reorientation in Antiferromagnetic MnPdSe with an Anti-CeCoIn Structure Type.. <i>Inorganic Chemistry</i> , 2022 , 61, 3981-3988	5.1	0
85	Ultrathin, High-Aspect Ratio, and Free-Standing Magnetic Nanowires by Exfoliation of Ferromagnetic Quasi-One-Dimensional van der Waals Lattices. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19551-19558	16.4	2
84	Magnetic structure of magnetoelectric multiferroic HoFeWO ₆ . <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 544, 168725	2.8	0
83	A Catastrophic Charge Density Wave in BaFe ₂ Al ₉ . <i>Chemistry of Materials</i> , 2021 , 33, 2855-2863	9.6	3
82	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
81	The hydrogen-containing bronzes H _{0.23} WO ₃ and H _{0.10} ReO ₃ synthesized via a polymer route. <i>Journal of Solid State Chemistry</i> , 2021 , 297, 122059	3.3	1
80	Absence of long-range magnetic order in lithium-containing honeycombs in the Li-Cr-Sb(Te)-O phases. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	1
79	Chloride Reduction of Mn in Mild Hydrothermal Synthesis of a Charge Ordered Defect Pyrochlore, CsMnMnF, a Canted Antiferromagnet with a Hard Ferromagnetic Component. <i>Journal of the American Chemical Society</i> , 2021 , 143, 11554-11567	16.4	1
78	Proton switching molecular magnetoelectricity. <i>Nature Communications</i> , 2021 , 12, 4602	17.4	2
77	Structure, Magnetism, and First-Principles Modeling of the Na _{0.5} La _{0.5} RuO ₃ Perovskite. <i>Chemistry of Materials</i> , 2021 , 33, 600-607	9.6	2
76	Antiferromagnetism and crystalline electric field excitations in tetragonal NaCeO ₂ . <i>Physical Review B</i> , 2021 , 103,	3.3	2
75	Ultrawide Temperature Range Super-Invar Behavior of R ₂ (Fe,Co) ₁₇ Materials (R = Rare Earth). <i>Physical Review Letters</i> , 2021 , 127, 055501	7.4	3
74	Spin Reorientation in Antiferromagnetic Layered FePt ₅ P. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3501-3508	3.508	2
73	Evolution of magnetic interactions in Sb-substituted MnBi ₂ Te ₄ . <i>Physical Review B</i> , 2021 , 104,	3.3	5
72	Field-tunable toroidal moment in a chiral-lattice magnet. <i>Nature Communications</i> , 2021 , 12, 5339	17.4	5
71	Unusual Exchange Couplings and Intermediate Temperature Weyl State in Co ₃ Sn ₂ S ₂ . <i>Physical Review Letters</i> , 2021 , 127, 117201	7.4	3

70	Antiferromagnetic Order and Linear Magnetoresistance in Fe-Substituted Shandite Co ₃ In ₂ S ₂ . <i>Chemistry of Materials</i> , 2021 , 33, 9741-9749	9.6	0
69	A new halospinel superionic conductor for high-voltage all solid state lithium batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 2056-2063	35.4	66
68	Crystal and magnetic structure of polar oxide HoCrWO ₆ . <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 514, 167219	2.8	3
67	Machine-learning-assisted insight into spin ice DyTiO. <i>Nature Communications</i> , 2020 , 11, 892	17.4	21
66	Complex magnetic structure in Ba ₅ Ru ₃ O ₁₂ with isolated Ru ₃ O ₁₂ trimer. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
65	High-Voltage Superionic Halide Solid Electrolytes for All-Solid-State Li-Ion Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 533-539	20.1	113
64	Crystal structures and rotational dynamics of a two-dimensional metal halide perovskite (OA)PbI. <i>Journal of Chemical Physics</i> , 2020 , 152, 014703	3.9	4
63	Mapping Dirac fermions in the intrinsic antiferromagnetic topological insulators (MnBi ₂ Te ₄)(Bi ₂ Te ₃) _n (n=0,1). <i>Physical Review B</i> , 2020 , 102,	3.3	15
62	Dimer rattling mode induced low thermal conductivity in an excellent acoustic conductor. <i>Nature Communications</i> , 2020 , 11, 5197	17.4	9
61	Stabilized Charge, Spin, and Orbital Ordering by the 6s Lone Pair in BiPbMnO. <i>Inorganic Chemistry</i> , 2020 , 59, 13390-13397	5.1	1
60	Weakly coupled alternating S=12 chains in the distorted honeycomb lattice compound Na ₂ Cu ₂ TeO ₆ . <i>Physical Review B</i> , 2020 , 102,	3.3	3
59	An Entropically Stabilized Fast-Ion Conductor: Li _{3.25} [Si _{0.25} P _{0.75}]S ₄ . <i>Chemistry of Materials</i> , 2019 , 31, 7801-7811	9.6	38
58	Structure-property relationship in layered BaMn ₂ Sb ₂ and Ba ₂ Mn ₃ Sb ₂ O ₂ . <i>Physical Review B</i> , 2019 , 99,	3.3	2
57	Anomalous magnetic behavior of Ba ₂ CoO ₄ with isolated CoO ₄ tetrahedra. <i>Physical Review B</i> , 2019 , 99,	3.3	5
56	New Family of Argyrodite Thioantimonate Lithium Superionic Conductors. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19002-19013	16.4	115
55	Influence of magnetism on Dirac semimetallic behavior in nonstoichiometric Sr _{1-x} Mn _{1-y} Sb ₂ (y~0.07,z~0.02). <i>Physical Review B</i> , 2019 , 100,	3.3	5
54	Crystal growth and magnetic structure of MnBi ₂ Te ₄ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	140
53	Steplike metamagnetic transitions in a honeycomb lattice antiferromagnet Tb ₂ Ir ₃ Ga ₉ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	1

52	Structure, chromium vacancies, and magnetism in a Cr ₁₂ Te ₁₆ compound. <i>Physical Review Materials</i> , 2019 , 3,	3.2	1
51	Crystal field splitting, local anisotropy, and low-energy excitations in the quantum magnet YbCl ₃ . <i>Physical Review B</i> , 2019 , 100,	3.3	10
50	Structural and magnetic transitions in spinel FeMn ₂ O ₄ single crystals. <i>Physical Review B</i> , 2018 , 97,	3.3	16
49	Liquid-like thermal conduction in intercalated layered crystalline solids. <i>Nature Materials</i> , 2018 , 17, 226-230	3.3	92
48	Magnetite nano-islands on silicon-carbide with graphene. <i>Journal of Applied Physics</i> , 2017 , 121, 014310	2.5	4
47	Magnetic properties of Dy nano-islands on graphene. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 435, 212-216	2.8	6
46	Manganese-induced magnetic symmetry breaking and its correlation with the metal-insulator transition in bilayered Sr ₃ (Ru _{1-x} Mn _x) ₂ O ₇ . <i>Physical Review B</i> , 2017 , 95,	3.3	2
45	A magnetic topological semimetal SrMnSb (y, z). <i>Nature Materials</i> , 2017 , 16, 905-910	2.7	87
44	Exploring the origins of the Dzyaloshinskii-Moriya interaction in MnSi. <i>Physical Review B</i> , 2017 , 96,	3.3	15
43	Structure and magnetic properties of LnMnSbO (Ln=La and Ce). <i>Physical Review B</i> , 2016 , 93,	3.3	11
42	Spin reorientation and Ce-Mn coupling in antiferromagnetic oxypnictide CeMnAsO. <i>Physical Review B</i> , 2015 , 91,	3.3	15
41	Neutron-scattering measurements of spin excitations in LaFeAsO and Ba(Fe _{0.953} Co _{0.047}) ₂ As ₂ : evidence for a sharp enhancement of spin fluctuations by nematic order. <i>Physical Review Letters</i> , 2015 , 114, 057001	7.4	26
40	Impact of the various spin- and orbital-ordering processes on the multiferroic properties of orthovanadate DyVO ₃ . <i>Physical Review B</i> , 2014 , 90,	3.3	14
39	Magnetic excitations and anomalous spin-wave broadening in multiferroic FeV ₂ O ₄ . <i>Physical Review B</i> , 2014 , 89,	3.3	9
38	Experimental evidence of a collinear antiferromagnetic ordering in the frustrated CoAl ₂ O ₄ spinel. <i>Physical Review B</i> , 2013 , 88,	3.3	36
37	Magnetoelastic coupling and charge correlation lengths in a twin domain of Ba(Fe _{1-x} Cox) ₂ As ₂ (x=0.047): A high-resolution x-ray diffraction study. <i>Physical Review B</i> , 2013 , 87,	3.3	2
36	Coupled valence and spin state transition in (Pr _{0.7} Sm _{0.3}) _{0.7} Ca _{0.3} CoO ₃ . <i>Physical Review B</i> , 2013 , 87,	3.3	33
35	Magnetic structures and interplay between rare-earth Ce and Fe magnetism in single-crystal CeFeAsO. <i>Physical Review B</i> , 2013 , 88,	3.3	17

34	Ordering process and ferroelectricity in a spinel derived from FeV ₂ O ₄ . <i>Physical Review B</i> , 2012 , 85,	3.3	61
33	Magnetocaloric effect and improved relative cooling power in (La _{0.7} Sr _{0.3})MnO ₃ /SrRuO ₃ superlattices. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 052201	1.8	30
32	Magnetic properties of Dy nanoparticles and Al ₂ O ₃ -coated Dy nanocapsules. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 1163-1174	2.3	6
31	Investigation of the magnetocaloric effect in double distorted perovskites Ca(Cu _{3-x} Mnx)Mn ₄ O ₁₂ (1-x/2): From standard ferrimagnetism to glassy ferrimagnetism. <i>Physical Review B</i> , 2011 , 84,	3.3	4
30	Anisotropic magnetocaloric effect in all-ferromagnetic (La _{0.7} Sr _{0.3} MnO ₃ /SrRuO ₃) superlattices. <i>Applied Physics Letters</i> , 2010 , 97, 112506	3.4	32
29	Coexistence of inverse and normal magnetocaloric effect in A-site ordered NdBaMn ₂ O ₆ . <i>Applied Physics Letters</i> , 2010 , 96, 242506	3.4	23
28	Multiferroic properties and surface potential behaviors in cobalt-doped BiFeO ₃ film. <i>Applied Physics Letters</i> , 2010 , 96, 152901	3.4	36
27	Magnetic and transport properties of Mn _{3+x} Ga _{1-x} N compounds. <i>Journal of Materials Science</i> , 2010 , 45, 2770-2774	4.3	10
26	Carbon-doping effects on the metamagnetic transition and magnetocaloric effect in MnAsC _x . <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 2223-2226	2.8	14
25	Large reversible high-temperature magnetocaloric effect in alloys. <i>Solid State Communications</i> , 2010 , 150, 949-952	1.6	21
24	Comparative studies on transport and magnetotransport behaviour of as-deposited and ex situ annealed A-type antiferromagnetic Nd _{0.45} Sr _{0.55} MnO ₃ films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 2558-2563	1.6	2
23	Magnetic and reversible magnetocaloric properties of (Gd _{1-x} Dy _x) ₄ Co ₃ ferrimagnets. <i>Journal of Applied Physics</i> , 2009 , 105, 053902	2.5	28
22	Magnetic properties and spin-glass-like behavior in stoichiometric Mn ₃ In compound. <i>Journal of Applied Physics</i> , 2009 , 106, 113915	2.5	10
21	Microstructure and magnetic properties of graphite-coated Gd nanocapsules. <i>Applied Physics Letters</i> , 2009 , 94, 103104	3.4	20
20	Magnetocaloric effect in Ho ₂ In over a wide temperature range. <i>Applied Physics Letters</i> , 2009 , 94, 182501	3.4	60
19	Large reversible magnetocaloric effect in Tb ₂ In. <i>Solid State Communications</i> , 2009 , 149, 396-399	1.6	24
18	Exchange bias in CrN/Co nanocomposites consisting of CrN-coated Co nanocapsules and CrN nanoparticles. <i>Journal of Alloys and Compounds</i> , 2009 , 486, 14-17	5.7	4
17	Magnetostructural coupling and magnetocaloric effect in Ni ₂ MnIn. <i>Applied Physics Letters</i> , 2009 , 95, 172506	3.4	45

16	Large reversible magnetocaloric effect in Dy ₂ In. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 055011	3	13
15	Giant magnetocaloric effect in the Ising antiferromagnet DySb. <i>Applied Physics Letters</i> , 2008 , 92, 192505	3.4	102
14	Large reversible magnetocaloric effect in Tb ₃ Co compound. <i>Applied Physics Letters</i> , 2008 , 92, 242504	3.4	70
13	Structure, magnetic properties and coercivity mechanism of the Mo-spacered Nd ₂ Fe ₁₄ B/Fe textured multilayer films. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 245007	3	11
12	Electromagnetic-wave-absorption properties of wire-like structures self-assembled by FeCo nanocapsules. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 175001	3	26
11	Large magnetoresistance over an entire region from 5 to 380 K in double helical CoMnSi compound. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 125001	3	14
10	Large magnetocaloric effect and enhanced magnetic refrigeration in ternary Gd-based bulk metallic glasses. <i>Journal of Applied Physics</i> , 2008 , 103, 023918	2.5	106
9	Structural evolution and magnetic properties of Mn ₂ compounds. <i>Solid State Communications</i> , 2008 , 148, 199-202	1.6	22
8	Giant magnetoresistance associated with a first-order transition between two ferrimagnetic states in Mn ₂ Zn _x Sb (x). <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 095007	3	5
7	Magnetic properties and enhanced magnetic refrigeration in (Mn _{1-x} Fe _x) ₅ Ge ₃ compounds. <i>Journal of Applied Physics</i> , 2007 , 101, 123911	2.5	31
6	Giant magnetocaloric effect in (Mn _{0.83} Fe _{0.17}) _{3.25} Ge antiferromagnet. <i>Applied Physics Letters</i> , 2007 , 90, 042510	3.4	38
5	Magnetic, electronic transport and magneto-transport behaviors of Co _x Fe _{1-x} MnP compounds. <i>Journal of Alloys and Compounds</i> , 2007 , 429, 29-33	5.7	7
4	Large room-temperature magnetocaloric effects in Fe _{0.8} Mn _{1.5} As. <i>Applied Physics Letters</i> , 2007 , 91, 112503	3.3	42
3	Anomalous positive magnetoresistance in Fe _{0.75} Mn _{1.35} As. <i>Physical Review B</i> , 2006 , 74,	3.3	7
2	Ferromagnetic semiconducting behavior of Mn _{1-x} Cr _x Te compounds. <i>Physical Review B</i> , 2005 , 72,	3.3	30
1	High areal capacity, long cycle life 4 V ceramic all-solid-state Li-ion batteries enabled by chloride solid electrolytes. <i>Nature Energy</i> ,	62.3	39