

Qiang Zhang

List of Publications by Year in descending order

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papers

3,245
citations

172443

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101
all docs

101
docs citations

101
times ranked

3926
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Voltage Superionic Halide Solid Electrolytes for All-Solid-State Li-Ion Batteries. ACS Energy Letters, 2020, 5, 533-539.	17.4	250
2	High areal capacity, long cycle life 4.4V ceramic all-solid-state Li-ion batteries enabled by chloride solid electrolytes. Nature Energy, 2022, 7, 83-93.	39.5	249
3	Crystal growth and magnetic structure of $\text{MnBi}_{2-x}\text{Mn}_{2x}$. Physical Review Materials, 2019, 3, .	21.2	242
4	New Family of Argyrodite Thioantimonate Lithium Superionic Conductors. Journal of the American Chemical Society, 2019, 141, 19002-19013.	13.7	221
5	A new halospinel superionic conductor for high-voltage all solid state lithium batteries. Energy and Environmental Science, 2020, 13, 2056-2063.	30.8	148
6	Liquid-like thermal conduction in intercalated layered crystalline solids. Nature Materials, 2018, 17, 226-230.	27.5	136
7	A magnetic topological semimetal $\text{Sr}_{1-y}\text{Mn}_{1-z}\text{Sb}_2$ ($y, z < 0.1$). Nature Materials, 2017, 16, 905-910.	27.5	135
8	Large magnetocaloric effect and enhanced magnetic refrigeration in ternary Gd-based bulk metallic glasses. Journal of Applied Physics, 2008, 103, .	2.5	115
9	Giant magnetocaloric effect in the Ising antiferromagnet DySb. Applied Physics Letters, 2008, 92, .	3.3	112
10	Large reversible magnetocaloric effect in Tb ₃ Co compound. Applied Physics Letters, 2008, 92, 242504.	3.3	76
11	Ordering process and ferroelectricity in a spinel derived from FeV ₂ O ₇ . Physical Review B, 2012, 85, .	3.2	71
12	Magnetocaloric effect in Ho ₂ In over a wide temperature range. Applied Physics Letters, 2009, 94, .	3.3	69
13	An Entropically Stabilized Fast-Ion Conductor: $\text{Li}_{3.25}\text{[Si}_{0.25}\text{P}_{0.75}]_4\text{S}_4$. Chemistry of Materials, 2019, 31, 7801-7811.	6.7	62
14	Machine-learning-assisted insight into spin ice Dy ₂ Ti ₂ O ₇ . Nature Communications, 2020, 11, 892.	12.8	58
15	Magnetostructural coupling and magnetocaloric effect in NiMnIn. Applied Physics Letters, 2009, 95, .	3.3	50
16	Large room-temperature magnetocaloric effects in Fe _{0.8} Mn _{1.5} As. Applied Physics Letters, 2007, 91, 112503.	3.3	44
17	Coupled valence and spin state transition in (Pr _{1-x} Tb _x) ₂ Fe ₁₇ . Applied Physics Letters, 2007, 91, 112503.	3.2	42
18	Giant magnetocaloric effect in $\mu\text{-}(\text{Mn}_{0.83}\text{Fe}_{0.17})_3\text{.25Ge}$ antiferromagnet. Applied Physics Letters, 2007, 90, 042510.	3.3	41

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19	Experimental evidence of a collinear antiferromagnetic ordering in the frustrated CoAl_2O_4 spinel. <i>Physical Review B</i> , 2013, 88, .	3.2	41
20	Magnetic properties and enhanced magnetic refrigeration in $(\text{Mn}_{1-x}\text{Fe}_x)_5\text{Ge}_3$ compounds. <i>Journal of Applied Physics</i> , 2007, 101, 123911.	2.5	38
21	Multiferroic properties and surface potential behaviors in cobalt-doped BiFeO_3 film. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	38
22	Magnetocaloric effect and improved relative cooling power in $(\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrRuO}_3)$ superlattices. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 052201.	1.8	38
23	Ferromagnetic semiconducting behavior of $\text{Mn}_{1-x}\text{Cr}_x\text{Te}$ compounds. <i>Physical Review B</i> , 2005, 72, .	3.2	34
24	Anisotropic magnetocaloric effect in all-ferromagnetic $(\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrRuO}_3)$ superlattices. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	34
25	Large reversible magnetocaloric effect in Tb_2In . <i>Solid State Communications</i> , 2009, 149, 396-399.	1.9	31
26	Neutron-Scattering Measurements of Spin Excitations in LaFeAsO and $\text{Ba}_1-x\text{Fe}_x\text{Fe}_2\text{As}_2$. <i>Applied Physics Letters</i> , 2015, 114, 057001.	7.8	30
27	Electromagnetic-wave-absorption properties of wire-like structures self-assembled by FeCo nanocapsules. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 175001.	2.8	29
28	Magnetic and reversible magnetocaloric properties of $(\text{Gd}_{1-x}\text{Dy}_x)_4\text{Co}_3$ ferrimagnets. <i>Journal of Applied Physics</i> , 2009, 105, 053902.	2.5	29
29	Mapping Dirac fermions in the intrinsic antiferromagnetic topological insulators Bi_2Te_3 and Bi_2Se_3 .		

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37	Structural evolution and magnetic properties of Mn ⁿ compounds. Solid State Communications, 2008, 148, 199-202.	1.9	25
38	Structural and magnetic transitions in spinel FeMn_2O_4 single crystals. Physical Review B, 2018, 97, .	3.2	25
39	Spin reorientation and Ce-Mn coupling in antiferromagnetic oxypnictide CeMnAsO. Physical Review B, 2015, 91, .	3.2	21
40	Microstructure and magnetic properties of graphite-coated Gd nanocapsules. Applied Physics Letters, 2009, 94, .	3.3	20
41	Large reversible magnetocaloric effect in Dy_2In . Journal Physics D: Applied Physics, 2009, 42, 055011.	2.8	19
42	Ultrathin, High-Aspect Ratio, and Free-Standing Magnetic Nanowires by Exfoliation of Ferromagnetic Quasi-One-Dimensional van der Waals Lattices. Journal of the American Chemical Society, 2021, 143, 19551-19558.	13.7	19
43	Magnetic structures and interplay between rare-earth Ce and Fe magnetism in single-crystal CeFeAsO. Physical Review B, 2013, 88, .	3.2	18
44	Large magnetoresistance over an entire region from 5 to 380 K in double helical CoMnSi compound. Journal Physics D: Applied Physics, 2008, 41, 125001.	2.8	17
45	Exploring the origins of the Dzyaloshinskii-Moriya interaction in MnSi. Physical Review B, 2017, 96, .	3.2	17
46	Tuning the flat bands of the kagome metal CoSn with Fe, In, or Ni doping. Physical Review Materials, 2021, 5, .	2.4	17
47	Impact of the various spin- and orbital-ordering processes on the multiferroic properties of orthovanadate DyVO_3 . Physical Review B, 2014, 90, .	3.2	16
48	Structure and magnetic properties of Mn_2SbO_6	3.2	16
49	Magnetic properties and spin-glass-like behavior in stoichiometric Mn_3In compound. Journal of Applied Physics, 2009, 106, .	2.5	15
50	Carbon-doping effects on the metamagnetic transition and magnetocaloric effect in MnAsCx . Journal of Magnetism and Magnetic Materials, 2010, 322, 2223-2226.	2.3	14
51	Antiferromagnetic Order and Linear Magnetoresistance in Fe-Substituted Shandite $\text{Co}_3\text{In}_2\text{S}_2$. Chemistry of Materials, 2021, 33, 9741-9749.	6.7	14
52	Magnetic and transport properties of $\text{Mn}_{3+x}\text{Ga}_{1-x}\text{N}$ compounds. Journal of Materials Science, 2010, 45, 2770-2774.	3.7	13
53	Field-tunable toroidal moment in a chiral-lattice magnet. Nature Communications, 2021, 12, 5339.	12.8	13
54	Structure, magnetic properties and coercivity mechanism of the Mo-spacered $\text{Nd}_2\text{Fe}_{14}\text{B}$ -Fe textured multilayer films. Journal Physics D: Applied Physics, 2008, 41, 245007.	2.8	12

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55	Chloride Reduction of Mn ³⁺ in Mild Hydrothermal Synthesis of a Charge Ordered Defect Pyrochlore, CsMn ₂ Mn ₃ F ₆ , a Canted Antiferromagnet with a Hard Ferromagnetic Component. Journal of the American Chemical Society, 2021, 143, 11554-11567.	13.7	12
56	Ferromagnetic Double Perovskite Semiconductors with Tunable Properties. Advanced Science, 2022, 9, e2104319.	11.2	12
57	Weakly coupled alternating S chains in the distorted honeycomb lattice compound NaMn ₂ Cl ₄ . Physical Review B, 2020, 102, .	3.2	11
58	Magnetic excitations and anomalous spin-wave broadening in multiferroic FeV ₂ O ₄ . Physical Review B, 2014, 89, .	3.2	10
59	Crystal structures and formation mechanisms of boron-rich tungsten borides. Physical Review B, 2021, 104, .	3.2	10
60	Proton switching molecular magnetoelectricity. Nature Communications, 2021, 12, 4602.	12.8	10
61	Crystal and magnetic structure of polar oxide HoCrWO ₆ . Journal of Magnetism and Magnetic Materials, 2020, 514, 167219.	2.3	9
62	A Catastrophic Charge Density Wave in BaFe ₂ Al ₉ . Chemistry of Materials, 2021, 33, 2855-2863.	6.7	9
63	Steplike metamagnetic transitions in a honeycomb lattice antiferromagnet TbMn ₂ Cl ₄ . Physical Review Materials, 2019, 3, .	3.2	9
64	Anomalous positive magnetoresistance in Fe _{0.75} Mn _{1.35} As. Physical Review B, 2006, 74, .	3.2	8
65	Giant magnetoresistance associated with a first-order transition between two ferrimagnetic states in Mn ₂ ZnSb (0.3) compounds. Journal of Magnetism and Magnetic Materials, 2020, 517, 167219.	2.8	8
66	Investigation of the magneto-Curie effect in double distorted perovskites Ca(Cu _{1-x} Ti _x) ₂ FeO ₇ . Physical Review B, 2019, 100, .	3.2	8
67	Magnetic properties of Dy nano-islands on graphene. Journal of Magnetism and Magnetic Materials, 2017, 435, 212-216.	2.3	8
68	Anomalous magnetic behavior of BaMn ₂ Co ₄ tetrahedra. Physical Review B, 2019, 99, .	3.2	8
69	Spin Reorientation in Antiferromagnetic Layered FePt ₅ P. ACS Applied Electronic Materials, 2021, 3, 3501-3508.	4.3	8
70	Toward tunable quantum transport and novel magnetic states in Eu _{1-x} Sr _x Mn _{1-z} Sb ₂ (z=0.05). NPG Asia Materials, 2022, 14, .	7.9	8
71	Magnetic, electronic transport and magneto-transport behaviors of CoFe _{1-x} MnP compounds. Journal of Alloys and Compounds, 2007, 429, 29-33.	5.5	7
72	Influence of magnetism on Dirac semimetallic behavior in nonstoichiometric SrMn _{1-x} As. Physical Review B, 2019, 100, .	3.2	7

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73	Crystal structures and rotational dynamics of a two-dimensional metal halide perovskite (OA) ₂ PbI ₄ . Journal of Chemical Physics, 2020, 152, 014703.	3.0	7
74	Antiferromagnetism and crystalline electric field excitations in tetragonal NaCeO_2 . Physical Review B, 2021, 103, .	3.2	7
75	Magnetic properties of Dy nanoparticles and Al ₂ O ₃ -coated Dy nanocapsules. Journal of Nanoparticle Research, 2011, 13, 1163-1174.	1.9	6
76	Structure, chromium vacancies, and magnetism in a $\text{Ca}_2\text{Mn}_2\text{O}_7$. Physical Review B, 2021, 103, .	3.2	7
77	Magnetite nano-islands on silicon-carbide with graphene. Journal of Applied Physics, 2017, 121, 014310.	2.5	5
78	Structure, Magnetism, and First-Principles Modeling of the $\text{Na}_{0.5}\text{La}_{0.5}\text{RuO}_3$ Perovskite. Chemistry of Materials, 2021, 33, 600-607.	6.7	5
79	Helical magnetic order and Fermi surface nesting in noncentrosymmetric ScFeGe. Physical Review B, 2021, 103, .	3.2	5
80	Hierarchical excitations from correlated spin tetrahedra on the breathing pyrochlore lattice. Physical Review B, 2021, 103, .	3.2	5
81	Exchange bias in CrN/Co nanocomposites consisting of CrN-coated Co nanocapsules and CrN nanoparticles. Journal of Alloys and Compounds, 2009, 486, 14-17.	5.5	4
82	Absence of long-range magnetic order in lithium-containing honeycombs in the $\text{LiCrSb}(\text{Te})\text{O}$ phases. Journal of Physics Condensed Matter, 2021, 33, 295802.	1.8	4
83	Manganese-induced magnetic symmetry breaking and its correlation with the metal-insulator transition in bilayered $\text{Sr}_3(\text{Ru}_{1-x}\text{Mn}_x)_2\text{O}_7$. Physical Review B, 2017, 95, .	3.2	3
84	Structure-property relationship in layered BaMn_2S_2 and BaMn_2O_7 . Physical Review B, 2021, 103, .	3.2	3
85	The hydrogen-containing bronzes $\text{H}_{0.23}\text{WO}_3$ and $\text{H}_{0.10}\text{ReO}_3$ synthesized via a polymer route. Journal of Solid State Chemistry, 2021, 297, 122059.	2.9	3
86	Tunable magnetic order in low-symmetry 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, .	2.4	3
87	Magnetic structure of magnetoelectric multiferroic HoFeWO_6 . Journal of Magnetism and Magnetic Materials, 2022, 544, 168725.	2.3	3
88	Noncollinear spin structure with weak ferromagnetism in NbMnP. Physical Review B, 2021, 104, .	3.2	3
89	Magnetic cations doped into a double perovskite semiconductor. Journal of Materials Chemistry C, 2022, 10, 3232-3240.	5.5	3
90	Comparative studies on transport and magnetotransport behaviour of As -deposited and <i>ex situ</i> annealed Aa -type antiferromagnetic $\text{Nd}_{0.45}\text{Sr}_{0.55}\text{MnO}_3$ films. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2558-2563.	1.8	2

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91	Magnetoelastic coupling and charge correlation lengths in a twin domain of $Ba(Fe_{1-x}Co_x)_2As_2$ ($x=0.047$): A high-resolution x-ray diffraction study. <i>Physical Review B</i> , 2013, 87, .	3.2	2
92	Stabilized Charge, Spin, and Orbital Ordering by the 6s ² Lone Pair in $Bi_{0.5}Pb_{0.5}MnO_3$. <i>Inorganic Chemistry</i> , 2020, 59, 13390-13397.	4.0	2
93	Widely spaced planes of magnetic dimers in the BaY_2O_{17} . <i>Physical Review Materials</i> , 2021, 5, .	2.4	1
94	Spin Reorientation in Antiferromagnetic $MnPd_5Se$ with an Anti-CeColn ₅ Structure Type. <i>Inorganic Chemistry</i> , 2022, 61, 3981-3988.	4.0	2
95	Complex magnetic structure in $BaRu_3O_{12}$ with isolated O_2 molecules. <i>Physical Review Materials</i> , 2020, 4, .	2.4	1
96	Domain switching behaviors of $PbZr_{1-x}Ti_xO_3$ thin films by piezoresponse force microscopy. <i>Journal of the Korean Physical Society</i> , 2010, 56, 443-447.	0.7	1
97	The Role of Phonons and Oxygen Vacancies in Non-Cubic $SrVO_3$. <i>Inorganic Chemistry</i> , 2022, , .	4.0	1
98	Spin-Glass-like State and Reversible Room-Temperature Magnetocaloric Effect in Double Distorted Perovskites $Nd(Cu_{3-x}Mn_x)Mn_4O_{12}$. <i>Inorganic Chemistry</i> , 2022, 61, 5792-5799.	4.0	1
99	$SrV_{0.3}Fe_{0.7}O_{2.8}$: A Vacancy-Ordered Fe-Based Perovskite Exhibiting Room-Temperature Magnetoresistance. <i>Inorganic Chemistry</i> , 2022, 61, 8987-8991.	4.0	1
100	Competing energetic states in $\hat{I}^3\hat{A}^{\sim}Fe_2WO_6$ with strong spin-charge-lattice coupling. <i>Physical Review B</i> , 2021, 104, .	3.2	0