

## List of Publications by Year in descending order

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75  
papers

5,531  
citations

201385

27  
h-index

76769

74  
g-index

77  
all docs

77  
docs citations

77  
times ranked

6946  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of a Weyl fermion semimetal and topological Fermi arcs. Science, 2015, 349, 613-617.	6.0	2,753
2	Giant anharmonic phonon scattering in PbTe. Nature Materials, 2011, 10, 614-619.	13.3	561
3	Glass-like phonon scattering from a spontaneous nanostructure in AgSbTe <sub>2</sub> . Nature Nanotechnology, 2013, 8, 445-451.	15.6	161
4	A cost-effective and humidity-tolerant chloride solid electrolyte for lithium batteries. Nature Communications, 2021, 12, 4410.	5.8	141
5	Phonon Self-Energy and Origin of Anomalous Neutron Scattering Spectra in SnTe and PbTe Thermoelectrics. Physical Review Letters, 2014, 112, 175501.	2.9	125
6	Microscopic mechanism of low thermal conductivity in lead telluride. Physical Review B, 2012, 85, .	1.1	115
7	Static and Dynamical Properties of the Spin- $\frac{1}{2}$ Equilibrated Triangular-Lattice Antiferromagnet $\text{Ba}_3\text{CoSb}_2\text{O}_9$ . Physical Review Letters, 2016, 116, 087201.	2.9	99
8	Establishing the carrier scattering phase diagram for ZrNiSn-based half-Heusler thermoelectric materials. Nature Communications, 2020, 11, 3142.	5.8	87
9	Magnetic phase diagram and multifermiocity of $\text{Bi}_2\text{Te}_3$ , $\text{EuMg}_2\text{Sb}_2$ , and $\text{Bi}_2\text{Se}_3$ . Physical Review Letters, 2016, 116, 087201.	1.1	75
10	Twisting phonons in complex crystals with quasi-one-dimensional substructures. Nature Communications, 2015, 6, 6723.	5.8	75
11	Anharmonicity and atomic distribution of SnTe and PbTe thermoelectrics. Physical Review B, 2014, 90, .	1.1	64
12	The nature of spin excitations in the one-third magnetization plateau phase of $\text{Ba}_3\text{CoSb}_2\text{O}_9$ . Nature Communications, 2018, 9, 2666.	5.8	62
13	Magnetic phase diagram and multifermiocity of $\text{Ba}_3\text{CoSb}_2\text{O}_9$ . Physical Review Letters, 2016, 116, 087201.	1.1	60
14	Series of phase transitions and multifermiocity in the quasi-two-dimensional spin- $\frac{1}{2}$ antiferromagnet $\text{O}_9\text{Zn}_2\text{Sb}_2$ ( $\text{A}=\text{Ca, Eu, Yb}$ ). Physical Review B, 2014, 89, .	1.1	60
15	Field-induced quantum spin disordered state in spin-1/2 honeycomb magnet $\text{Na}_2\text{Co}_2\text{TeO}_6$ . Nature Communications, 2021, 12, 5559.	5.8	57
16	Topological magnon insulators in two-dimensional van der Waals ferromagnets $\text{CrSiTe}_3$ and $\text{CrGeTe}_3$ : Toward intrinsic gap-tunability. Science Advances, 2021, 7, eabi7532.	4.7	56
17	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. Nature Communications, 2020, 11, 3356.	5.8	55
18	Properties of single crystalline $\text{AZn}_2\text{Sb}_2$ ( $\text{A}=\text{Ca, Eu, Yb}$ ). Journal of Applied Physics, 2012, 111, .	1.1	50

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19	Melting of Pb Charge Glass and Simultaneous Pb <sup>2+</sup> Cr Charge Transfer in PbCrO <sub>3</sub> as the Origin of Volume Collapse. Journal of the American Chemical Society, 2015, 137, 12719-12728.	6.6	45
20	Spin- $\frac{1}{2}$ Heisenberg antiferromagnet in the two-dimensional limit. Physical Review B, 2017, 95, .	1.1	43
21	Stabilization of Charge Ordering in La <sub>1/3</sub> Sr <sub>2/3</sub> FeO <sub>3</sub> by Magnetic Exchange. Physical Review Letters, 2007, 98, 126402.	2.9	38
22	Pressure dependence of the magnetic ground states in MnP. Physical Review B, 2016, 93, .	1.1	36
23	Structural and magnetic phase transitions in Ca <sub>1-x</sub> Fe <sub>x</sub> As <sub>2</sub> electron-overdoped FeAs layers. Physical Review B, 2016, 93, .	1.1	31
24	Crystalline electric field excitations in the quantum spin liquid candidate NaYbSe <sub>2</sub> . Physical Review B, 2021, 103, .	1.1	31
25	Anharmonic phonons and magnons in BiFeO <sub>3</sub> . Physical Review B, 2012, 85, .	1.1	31
26	Heavy-impurity resonance, hybridization, and phonon spectral functions in		

#	ARTICLE	IF	CITATIONS
37	Magnetolectric and Raman spectroscopic studies of monocrystalline $\text{MnCr}_2\text{O}_4$ . Physical Review B, 2016, 97, .	1.1	18
38	Effective magnetic Hamiltonian at finite temperatures for rare-earth chalcogenides. Physical Review B, 2021, 103, .	1.1	18
39	Ordering induced by interladder coupling in the spin-two-leg ladder antiferromagnet $\text{Ca}_9\text{Mn}_2\text{O}_{20}$ . Physical Review B, 2015, 91, .	1.1	17
40	Temperature and composition phase diagram in the iron-based ladder compounds $\text{BaMn}_2\text{O}_7$ and the low-dimensional compound $\text{BaMn}_2\text{O}_6$ . Physical Review B, 2015, 91, .	1.1	17
41	Magnetic and structural phase transitions in the spinel compound $\text{Fe}_{1+x}\text{Cr}_2\text{O}_4$ . Physical Review B, 2014, 89, .	1.1	15
43	Magnetic structures, spin-flop transition, and coupling of Eu and Mn magnetism in the Dirac semimetal $\text{EuMnBi}$ . Physical Review Research, 2020, 2, .	1.8	15
44	Effects of inter-vanadium distance and $\text{A}$ -site magnetism in $\text{AV}_2\text{S}_5$ . Physical Review B, 2017, 96, .	1.1	14
45	Quasi-one-dimensional Ising-like antiferromagnet $\text{BaCo}_2\text{V}_2\text{O}_{10}$ . Physical Review B, 2017, 96, .	1.1	14
46	Negative Thermal Expansion of Ni-Doped $\text{MnCoGe}$ at Room-Temperature Magnetic Tuning. ACS Applied Materials & Interfaces, 2019, 11, 17531-17538.	4.0	14
47	Phonon scattering rates and atomic ordering in $\text{Ag}_2\text{O}$ .		

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55	Transitions from a Kondo-like diamagnetic insulator into a modulated ferromagnetic metal in FeGa <sub>3</sub> Ge. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3273-3278.	3.3	10
56	Highly dispersive magnons with spin-gap-like features in the frustrated ferromagnetic compound Y <sub>2</sub> Ca <sub>2</sub> Cu <sub>2</sub> O <sub>7</sub> . Physical Review B, 2019, 100, .	1.1	10
57	Anharmonic lattice dynamics of Te and its counter-intuitive strain dependent lattice thermal conductivity. Journal of Materials Chemistry C, 2019, 7, 5970-5974.	2.7	9
58	Realization of the orbital-selective Mott state at the molecular level in Ba <sub>8</sub> O <sub>24</sub> : A model two-dimensional spin-1/2 system. Physical Review B, 2019, 100, .	0.9	9
59	Realization of the orbital-selective Mott state at the molecular level in Ba <sub>3</sub> O <sub>9</sub> . Physical Review Materials, 2020, 4, .	0.9	9
60	Direct in situ measurement of coupled magnetostructural evolution in a ferromagnetic shape memory alloy and its theoretical modeling. Physical Review B, 2015, 92, .	1.1	8
61	Evolution of the magnetic and structural properties of Fe <sub>2</sub> VO <sub>4</sub> . Physical Review B, 2015, 92, .	1.1	7
62	Magnetic and electric properties of triangular lattice antiferromagnets Ba <sub>3</sub> ATa <sub>2</sub> O <sub>9</sub> (A= Ni and Co). Materials Research Bulletin, 2017, 88, 308-314.	2.7	6
63	Free-standing films based on Ni wires core/foamed NiO shell as hosts for stable lithium anodes. Journal of Power Sources, 2021, 506, 230161.	4.0	6
64	Structural modifications and phonon softening in Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>1-x</sub> R <sub>x</sub> Cu <sub>2</sub> O <sub>8</sub> (R = Pr and Gd) single crystals. Journal of Physics Condensed Matter, 2003, 15, 2859-2866.	0.7	5
65	Electronic structure of non-centrosymmetric PtBi <sub>2</sub> studied by angle-resolved photoemission spectroscopy. Journal of Applied Physics, 2020, 128, .	1.1	5
66	In-plane Defect Engineering Enabling Ultra-stable Graphene Paper-based Hosts for Lithium Metal Anodes. ChemElectroChem, 2021, 8, 3273-3281.	1.7	5
67	Arrott plots, M <sup>2</sup> plots and the critical temperature of the weak ferromagnet FeGa <sub>3</sub> Ge. AIP Advances, 2018, 8, .	0.6	4
68	Carbon Foam Fibers with a Concentric Tube-Core/Three-Dimensional Nanosheet-Sheath Structure for High-Performance Lithium-Sulfur Batteries. ChemElectroChem, 2021, 8, 873-879.	1.7	4
69	Experimental evidence for a valence-bond glass in the double perovskite Ba <sub>2</sub> VO <sub>4</sub> . Physical Review B, 2021, 103, .	1.1	4
70	Nanoscale Structure in AgSbTe <sub>2</sub> Determined by Diffuse Elastic Neutron Scattering. Journal of Electronic Materials, 2015, 44, 1536-1539.	1.0	3
71	Miscibility gap and possible intrinsic Griffiths phase in Sr <sub>2</sub> VO <sub>4</sub> crystals grown b. Physical Review B, 2021, 103, .	1.1	3
72	Competition between the inter- and intra-sublattice interactions in Yb <sub>2</sub> V <sub>2</sub> O <sub>7</sub> . Physical Review B, 2015, 91, .	1.1	2

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73	Magnetic properties of the low-dimensional BaM <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> system (M=Cu, Co, Mn). Physical Review B, 2019, 100, .	1.1	2
74	Polarized neutron diffraction study in helical magnetic phases of MnP. Physica B: Condensed Matter, 2018, 551, 115-117.	1.3	1
75	Orbital competition of Mn <sup>3+</sup> and V <sup>3+</sup> ions in Mn <sub>1+x</sub> V <sub>2-x</sub> O <sub>4</sub> . Journal of Physics Condensed Matter, 2021, 33, 134002.	0.7	1