Xin Gui

List of Publications by Year
in descending order

		759233	752698
51	540	12	20
papers	citations	h-index	g-index

51	51	51	876
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A New Magnetic Topological Quantum Material Candidate by Design. ACS Central Science, 2019, 5, 900-910.	11.3	63
2	Crystal growth and quantum oscillations in the topological chiral semimetal CoSi. Physical Review B, 2019, 100, .	3.2	48
3	Enhanced anomalous Hall effect in the magnetic topological semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Co</mml:mi><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Sn</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>â</mml:mo></mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	31
4	Chemistry in Superconductors. Chemical Reviews, 2021, 121, 2966-2991.	47.7	27
5	Canted Eu magnetic structure in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>EuMnS</mml:mi><mml:msub><mml:mi mathvariant="normal">b</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	24
6	Magnetic order induces symmetry breaking in the single-crystalline orthorhombic CuMnAs semimetal. Physical Review B, 2017, 96, .	3.2	22
7	Quantum oscillation evidence for a topological semimetal phase in ZrSnTe. Physical Review B, 2018, 97, .	3.2	22
8	Evidence for topological semimetallicity in a chain-compound TaSe3. Npj Quantum Materials, 2020, 5, .	5.2	20
9	Honeycombâ€Structure RuI₃, A New Quantum Material Related to Î±â€RuCl₃. Advanced Materials, 2022, 34, e2106831.	21.0	20
10	LaIr₃Ga₂: A Superconductor Based on a Kagome Lattice of Ir. Chemistry of Materials, 2022, 34, 2824-2832.	6.7	20
11	NbIr 2 B 2 and TaIr 2 B 2 â€“ New Low Symmetry Noncentrosymmetric Superconductors with Strong Spinâ€“Orbit Coupling. Advanced Functional Materials, 2021, 31, 2007960.	14.9	18
12	Crystal Structure, Magnetism, and Electronic Properties of a Rare-Earth-Free Ferromagnet: MnPt₅As. Chemistry of Materials, 2020, 32, 3922-3929.	6.7	15
13	Surface charge induced Dirac band splitting in a charge density wave material <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mi mathvariant="normal">I</mml:mi></mml:mrow></mml:mrow></mml:math>. Physical Review Research, 2021, 3, .	3.6	13
14	Ferromagnetic Double Perovskite Semiconductors with Tunable Properties. Advanced Science, 2022, 9, e2104319.	11.2	12
15	Evidence of magnetism-induced topological protection in the axion insulator candidate EuSn₂ P ₂. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	12
16	Superconducting SrSnP with Strong Snâ€“P Antibonding Interaction: Is the Sn Atom Single or Mixed Valent?. Chemistry of Materials, 2018, 30, 6005-6013.	6.7	11
17	Ferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>MnBi</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> obtained with low-concentration Sb doping: A promising platform for exploring topological quantum states. Physical Review Materials, 2022, 6, .	2.4	11
18	Structural distortion and incommensurate noncollinear magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>EuAg</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2020, 4, .	2.4	10

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19	Chemical Bonding Governs Complex Magnetism in MnPt₅P. Inorganic Chemistry, 2021, 60, 87-96.	4.0	9
20	Pressure-Induced Large Volume Collapse, Plane-to-Chain, Insulator to Metal Transition in CaMn₂Bi₂. Inorganic Chemistry, 2019, 58, 8933-8937.	4.0	8
21	Bond-breaking induced Lifshitz transition in robust Dirac semimetal VAI ₃. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15517-15523.	7.1	8
22	A Novel Magnetic Material by Design: Observation of Yb³⁺ with Spin-1/2 in Yb_xPt₅P. ACS Central Science, 2020, 6, 2023-2030.	11.3	8
23	Superconductivity in Metal-Rich Chalcogenide Ta₂Se. Inorganic Chemistry, 2020, 59, 5798-5802.	4.0	8
24	Spin Reorientation in Antiferromagnetic Layered FePt₅P. ACS Applied Electronic Materials, 2021, 3, 3501-3508.	4.3	8
25	Multiple mobile excitons manifested as sidebands in quasi-one-dimensional metallic TaSe3. Nature Materials, 2022, 21, 423-429.	27.5	8
26	Ptâ€“Bi Antibonding Interaction: The Key Factor for Superconductivity in Monoclinic BaPt₂Bi₂. Inorganic Chemistry, 2018, 57, 1698-1701.	4.0	6
27	Highly mobile carriers in a candidate of quasi-two-dimensional topological semimetal AuTe2Br. APL Materials, 2019, 7, 101110.	5.1	6
28	Ferromagnetic Cr₄PtGa₁₇: A Half-Heusler-Type Compound with a Breathing Pyrochlore Lattice. Journal of the American Chemical Society, 2021, 143, 14342-14351.	13.7	6
29	Beyond magnons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi><mml:mn>2</mml:mn></mml: : An Ising pyrochlore antiferromagnet with all-inâ€“all-out order and random fields. Physical Review B, 2021, 104, .	3.2	6
30	Antiferromagnetic semiconductor Eu3Sn2P4 with Snâ€“Sn dimer and crown-wrapped Eu. Journal of Materials Chemistry C, 2019, 7, 12650-12656.	5.5	5
31	Crystal Structures, Superconducting Properties, and the Coloring Problem in ReAlSi and ReGaSi. Inorganic Chemistry, 2020, 59, 17310-17319.	4.0	5
32	Monoclinic 122-Type BaIr2Ge2 with a Channel Framework: A Structural Connection between Clathrate and Layered Compounds. Materials, 2017, 10, 818.	2.9	4
33	Ternary Bismuthide SrPtBi₂: Computation and Experiment in Synergism to Explore Solid-State Materials. Journal of Physical Chemistry C, 2018, 122, 5057-5063.	3.1	4
34	Multiple topologically nontrivial bands in noncentrosymmetric YSn2. Physical Review B, 2018, 98, .	3.2	4
35	Mn-induced ferromagnetism and enhanced thermoelectric properties in Ru_{1â^'x}Mn_xSb_{2+Î´}. New Journal of Physics, 2019, 21, 033008.	2.9	4
36	Evidence from transport measurements for YRh6Ge4 being a triply degenerate nodal semimetal. Physical Review B, 2020, 101, .	3.2	4

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37	Antiferromagnetic to Ferromagnetic Coupling Crossover in Hybrid Nickel Chain Perovskites. Inorganic Chemistry, 2022, 61, 10486-10492.	4.0	4
38	Mn-induced Ferromagnetic Semiconducting Behavior with Linear Negative Magnetoresistance in Sr4(Ru1â^'xMnx)3O10 Single Crystals. Scientific Reports, 2018, 8, 13330.	3.3	3
39	Cr_{2.37}Ga₃Se₈: A Quasi-Two-Dimensional Magnetic Semiconductor. Inorganic Chemistry, 2018, 57, 14298-14303.	4.0	3
40	Enhanced NÃ©el temperature in EuSnP under pressure. Dalton Transactions, 2019, 48, 5327-5334.	3.3	3
41	Topological Hall effect and magnetic states in the Nowotny chimney ladder compound Cr11Ge19. Physical Review B, 2021, 103, .	3.2	3
42	Magnetic transitions in the 1D chain compounds NdPd₅Ge₃ and NdPt₅Ge₃. Journal of Physics Condensed Matter, 2021, 33, 435801.	1.8	3
43	Magnetic cations doped into a double perovskite semiconductor. Journal of Materials Chemistry C, 2022, 10, 3232-3240.	5.5	3
44	Pt-rich intermetallic APt8P2 (AÂ= Ca and La). Journal of Alloys and Compounds, 2019, 798, 53-58.	5.5	2
45	Quasi-two-dimensional relativistic fermions probed by de Haasâ€“van Alphen quantum oscillations in LuSn2. Physical Review B, 2021, 103, .	3.2	2
46	Geometric and Magnetic Structures of K₂ReI₆ as an Antiferromagnetic Insulator with Ferromagnetic Spin-Canting Originated from Spinâ^'Orbit Coupling. Journal of Physical Chemistry C, 2019, 123, 1645-1652.	3.1	1
47	Mn-induced spin glass behavior in metallic Ir₃Sn_{7â^'x}Mn_x. Journal of Physics Condensed Matter, 2021, 33, 135701.	1.8	1
48	Magnetic Frustration in a Zeolite. Chemistry of Materials, 2021, 33, 9725-9731.	6.7	1
49	The non-centrosymmetric layered compounds IrTe₂I and RhTe₂I. Dalton Transactions, 2022, 51, 8688-8694.	3.3	1
50	Crystal structure, magnetic properties and bonding analysis of M3Pt23Ge11 (M=Ca, Sr, Ba and Eu). Journal of Solid State Chemistry, 2021, 303, 122486.	2.9	0
51	Structure, electronic and magnetic characterization, and calculated electronic structures of two oxyhalide hexagonal perovskites. Physical Review Materials, 2021, 5, .	2.4	0