

Xin Gui

List of Publications by Year in descending order

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51
papers

540
citations

759233

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all docs

51
docs citations

51
times ranked

876
citing authors

#	ARTICLE	IF	CITATIONS
1	Honeycomb Structure $RuCl_3$, A New Quantum Material Related to $IrCl_3$. <i>Advanced Materials</i> , 2022, 34, e2106831.	21.0	20
2	Ferromagnetic Double Perovskite Semiconductors with Tunable Properties. <i>Advanced Science</i> , 2022, 9, e2104319.	11.2	12
3	Evidence of magnetism-induced topological protection in the axion insulator candidate $EuSn_2P_2$. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	12
4	Magnetic cations doped into a double perovskite semiconductor. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3232-3240.	5.5	3
5	Multiple mobile excitons manifested as sidebands in quasi-one-dimensional metallic $TaSe_3$. <i>Nature Materials</i> , 2022, 21, 423-429.	27.5	8
6	Ir_3Ga_2 : A Superconductor Based on a Kagome Lattice of Ir. <i>Chemistry of Materials</i> , 2022, 34, 2824-2832.	6.7	20
7	The non-centrosymmetric layered compounds $IrTe_2I$ and $RhTe_2I$. <i>Dalton Transactions</i> , 2022, 51, 8688-8694.	3.3	1
8	Ferromagnetic $MnBi_4$ obtained with low-concentration Sb doping: A promising platform for exploring topological quantum states. <i>Physical Review Materials</i> , 2022, 6, .	2.4	11
9	Antiferromagnetic to Ferromagnetic Coupling Crossover in Hybrid Nickel Chain Perovskites. <i>Inorganic Chemistry</i> , 2022, 61, 10486-10492.	4.0	4
10	$NbIr_2B_2$ and $TaIr_2B_2$ "New Low Symmetry Noncentrosymmetric Superconductors with Strong Spin-Orbit Coupling. <i>Advanced Functional Materials</i> , 2021, 31, 2007960.	14.9	18
11	Mn-induced spin glass behavior in metallic Ir_3Sn_7xMnx . <i>Journal of Physics Condensed Matter</i> , 2021, 33, 135701.	1.8	1
12	Topological Hall effect and magnetic states in the Nowotny chimney ladder compound $Cr_{11}Ge_{19}$. <i>Physical Review B</i> , 2021, 103, .	3.2	3
13	Chemistry in Superconductors. <i>Chemical Reviews</i> , 2021, 121, 2966-2991.	47.7	27
14	Quasi-two-dimensional relativistic fermions probed by de Haas-van Alphen quantum oscillations in $LuSn_2$. <i>Physical Review B</i> , 2021, 103, .	3.2	2
15	Surface charge induced Dirac band splitting in a charge density wave material $IrPt_5P$. <i>Physical Review Research</i> , 2021, 3, .	3.6	18
16	Spin Reorientation in Antiferromagnetic Layered $FePt_5P$. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3501-3508.	4.3	8
17	Ferromagnetic Cr_4PtGa_{17} : A Half-Heusler-Type Compound with a Breathing Pyrochlore Lattice. <i>Journal of the American Chemical Society</i> , 2021, 143, 14342-14351.	13.7	6
18	Magnetic transitions in the 1D chain compounds $NdPd_5Ge_3$ and $NdPt_5Ge_3$. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 435801.	1.8	3

#	ARTICLE	IF	CITATIONS
19	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
20	Chemical Bonding Governs Complex Magnetism in MnPt ₅ P. Inorganic Chemistry, 2021, 60, 87-96.	4.0	9
21	Beyond magnons in NdMn_2O_6 : An Ising pyrochlore antiferromagnet with all-in/all-out order and random fields. Physical Review B, 2021, 104, .	3.2	6
22	Structure, electronic and magnetic characterization, and calculated electronic structures of two oxyhalide hexagonal perovskites. Physical Review Materials, 2021, 5, .	2.4	0
23	Magnetic Frustration in a Zeolite. Chemistry of Materials, 2021, 33, 9725-9731.	6.7	1
24	Evidence for topological semimetallicity in a chain-compound TaSe3. Npj Quantum Materials, 2020, 5, .	5.2	20
25	Bond-breaking induced Lifshitz transition in robust Dirac semimetal VAl ₃ . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15517-15523.	7.1	8
26	Canted Eu magnetic structure in EuMn_2S_4 . Physical Review B, 2020, 101, .	3.2	24
27	Enhanced anomalous Hall effect in the magnetic topological semimetal $\text{Co}_3\text{Sn}_2\text{S}_{11}$. Physical Review B, 2020, 101, .	3.1	33
28	A Novel Magnetic Material by Design: Observation of Yb ³⁺ with Spin-1/2 in Yb ₃ Pt ₅ P. ACS Central Science, 2020, 6, 2023-2030.	11.3	8
29	Evidence from transport measurements for YRh6Ge4 being a triply degenerate nodal semimetal. Physical Review B, 2020, 101, .	3.2	4
30	Crystal Structure, Magnetism, and Electronic Properties of a Rare-Earth-Free Ferromagnet: MnPt ₅ As. Chemistry of Materials, 2020, 32, 3922-3929.	6.7	15
31	Superconductivity in Metal-Rich Chalcogenide Ta ₂ Se. Inorganic Chemistry, 2020, 59, 5798-5802.	4.0	8
32	Crystal Structures, Superconducting Properties, and the Coloring Problem in ReAlSi and ReGaSi. Inorganic Chemistry, 2020, 59, 17310-17319.	4.0	5
33	Structural distortion and incommensurate noncollinear magnetism in EuAg_4Mn_2 . Physical Review Materials, 2020, 4, .	3.2	11
34	Crystal growth and quantum oscillations in the topological chiral semimetal CoSi. Physical Review B, 2019, 100, .	3.2	48
35	Pressure-Induced Large Volume Collapse, Plane-to-Chain, Insulator to Metal Transition in CaMn ₂ Bi ₂ . Inorganic Chemistry, 2019, 58, 8933-8937.	4.0	8
36	Highly mobile carriers in a candidate of quasi-two-dimensional topological semimetal AuTe2Br. APL Materials, 2019, 7, 101110.	5.1	6

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37	Antiferromagnetic semiconductor $\text{Eu}_3\text{Sn}_2\text{P}_4$ with $\text{Sn}^{\delta-}\text{Sn}$ dimer and crown-wrapped Eu. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12650-12656.	5.5	5
38	Mn-induced ferromagnetism and enhanced thermoelectric properties in $\text{Ru}_{1-x}\text{Mn}_x\text{Sb}_{2+1}$. <i>New Journal of Physics</i> , 2019, 21, 033008.	2.9	4
39	Pt-rich intermetallic APt_8P_2 ($A = \text{Ca}$ and La). <i>Journal of Alloys and Compounds</i> , 2019, 798, 53-58.	5.5	2
40	A New Magnetic Topological Quantum Material Candidate by Design. <i>ACS Central Science</i> , 2019, 5, 900-910.	11.3	63
41	Enhanced Néel temperature in EuSnP under pressure. <i>Dalton Transactions</i> , 2019, 48, 5327-5334.	3.3	3
42	Geometric and Magnetic Structures of K_2Re_6 as an Antiferromagnetic Insulator with Ferromagnetic Spin-Canting Originated from Spin-Orbit Coupling. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1645-1652.	3.1	1
43	Ternary Bismuthide SrPtBi_2 : Computation and Experiment in Synergism to Explore Solid-State Materials. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5057-5063.	3.1	4
44	Quantum oscillation evidence for a topological semimetal phase in ZrSnTe . <i>Physical Review B</i> , 2018, 97, .	3.2	22
45	$\text{Pt}^{\delta-}\text{Bi}$ Antibonding Interaction: The Key Factor for Superconductivity in Monoclinic BaPt_2Bi_2 . <i>Inorganic Chemistry</i> , 2018, 57, 1698-1701.	4.0	6
46	Mn-induced Ferromagnetic Semiconducting Behavior with Linear Negative Magnetoresistance in $\text{Sr}_4(\text{Ru}_{1-x}\text{Mn}_x)_3\text{O}_{10}$ Single Crystals. <i>Scientific Reports</i> , 2018, 8, 13330.	3.3	3
47	$\text{Cr}_{2.37}\text{Ga}_3\text{Se}_8$: A Quasi-Two-Dimensional Magnetic Semiconductor. <i>Inorganic Chemistry</i> , 2018, 57, 14298-14303.	4.0	3
48	Multiple topologically nontrivial bands in noncentrosymmetric YSn_2 . <i>Physical Review B</i> , 2018, 98, .	3.2	4
49	Superconducting SrSnP with Strong $\text{Sn}^{\delta-}\text{P}$ Antibonding Interaction: Is the Sn Atom Single or Mixed Valent?. <i>Chemistry of Materials</i> , 2018, 30, 6005-6013.	6.7	11
50	Magnetic order induces symmetry breaking in the single-crystalline orthorhombic CuMnAs semimetal. <i>Physical Review B</i> , 2017, 96, .	3.2	22
51	Monoclinic 122-Type Ba_2Ge_2 with a Channel Framework: A Structural Connection between Clathrate and Layered Compounds. <i>Materials</i> , 2017, 10, 818.	2.9	4