

Chengxi Huang

List of Publications by Year in descending order

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35
papers

1,761
citations

411340

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406436

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all docs

35
docs citations

35
times ranked

2493
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-Temperature Ferroelectricity in $T < \epsilon^2 >$ Multilayers. Physical Review Letters, 2022, 128, 067601.	2.9	52
2	Pressure-stabilized MnB_6 that exhibits high-temperature ferromagnetism and high ductility at ambient pressure. Journal of Materials Chemistry C, 2022, 10, 4365-4371.	2.7	3
3	Toward Room-Temperature Electrical Control of Magnetic Order in Multiferroic van der Waals Materials. Nano Letters, 2022, 22, 5191-5197.	4.5	25
4	Built-in electric field control of magnetic coupling in van der Waals semiconductors. Physical Review B, 2021, 103, .	1.1	19
5	High-Temperature p-Orbital Half-Metallicity and Out-of-Plane Piezoelectricity in a GaN Monolayer Induced by Superhalogens. Journal of Physical Chemistry C, 2021, 125, 10027-10033.	1.5	9
6	High-throughput calculations of spintronic tetra-phase transition metal dinitrides. Journal of Materials Chemistry C, 2021, 9, 14401-14407.	2.7	8
7	Unconventional distortion induced two-dimensional multiferroicity in a CrO_3 monolayer. Nanoscale, 2021, 13, 13048-13056.	2.8	7
8	Discovery of twin orbital-order phases in ferromagnetic semiconducting VI_3 monolayer. Physical Chemistry Chemical Physics, 2020, 22, 512-517.	1.3	29
9	Tuning Electronic and Magnetic Properties of Two-Dimensional Ferromagnetic Semiconductor CrI_3 through Adsorption of Benzene. Journal of Physical Chemistry C, 2020, 124, 22143-22149.	1.5	20
10	Prediction of room-temperature ferromagnetism in a two-dimensional direct band gap semiconductor. Nanoscale, 2020, 12, 15670-15676.	2.8	38
11	Robustness of Superatoms and Their Potential as Building Blocks of Materials: Al_{13}^{+} vs $B(CN)_4^{+}$. Journal of Physical Chemistry C, 2020, 124, 6435-6440.	1.5	7
12	Electrical Control of Magnetic Phase Transition in a Type-I Multiferroic Double-Metal Trihalide Monolayer. Physical Review Letters, 2020, 124, 067602.	2.9	84
13	Switchable encapsulation of polysulfides in the transition between sulfur and lithium sulfide. Nature Communications, 2020, 11, 845.	5.8	92
14	Hydrogenated C_{60} as High-Capacity Stable Anode Materials for Li Ion Batteries. ACS Applied Energy Materials, 2019, 2, 6453-6460.	2.5	19
15	Ultra-High-Temperature Ferromagnetism in Intrinsic Tetrahedral Semiconductors. Journal of the American Chemical Society, 2019, 141, 12413-12418.	6.6	44
16	Boosting the Curie Temperature of Two-Dimensional Semiconducting CrI_3 Monolayer through van der Waals Heterostructures. Journal of Physical Chemistry C, 2019, 123, 17987-17993.	1.5	74
17	High-Temperature Ferromagnetism in an Fe_3P Monolayer with a Large Magnetic Anisotropy. Journal of Physical Chemistry Letters, 2019, 10, 2733-2738.	2.1	79
18	Mechanical, Electronic, and Magnetic Properties of NiX_2 (X = Cl, Br, I) Layers. ACS Omega, 2019, 4, 5714-5721.	1.6	40

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19	First-Principles Prediction of Room-Temperature Ferromagnetic Semiconductor MnS ₂ via Isovalent Alloying. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10114-10119.	1.5	33
20	Effect of Coulomb Correlation on the Magnetic Properties of Mn Clusters. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4350-4356.	1.1	4
21	Prediction of Intrinsic Ferromagnetic Ferroelectricity in a Transition-Metal Halide Monolayer. <i>Physical Review Letters</i> , 2018, 120, 147601.	2.9	217
22	Atomically dispersed tungsten on metal halide monolayer as a ferromagnetic Chern insulator. <i>Physical Review B</i> , 2018, 98, .	1.1	5
23	Hexagonal Boron Nitrideâ€“Metal Junction: Removing the Schottky Barriers by Grain Boundary. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800045.	1.3	5
24	Toward Intrinsic Room-Temperature Ferromagnetism in Two-Dimensional Semiconductors. <i>Journal of the American Chemical Society</i> , 2018, 140, 11519-11525.	6.6	280
25	Quantum anomalous Hall effect in ferromagnetic transition metal halides. <i>Physical Review B</i> , 2017, 95, .	1.1	110
26	Edge-Modified Graphene Nanoribbons: Appearance of Robust Spiral Magnetism. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1371-1376.	1.5	12
27	Quantum Phase Transition in Germanene and Stanene Bilayer: From Normal Metal to Topological Insulator. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1919-1924.	2.1	33
28	Valley contrasting in epitaxial growth of In/Tl homoatomic monolayer with anomalous Nernst conductance. <i>Physical Review B</i> , 2016, 94, .	1.1	7
29	A promising two-dimensional channel material: monolayer antimonide phosphorus. <i>Science China Materials</i> , 2016, 59, 648-656.	3.5	28
30	High-capacity hydrogen storage in Li-adsorbed g-C ₃ N ₄ . <i>Materials Chemistry and Physics</i> , 2016, 180, 440-444.	2.0	21
31	Theoretical Prediction of Phosphorene and Nanoribbons As Fast-Charging Li Ion Battery Anode Materials. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6923-6928.	1.5	96
32	Theoretical understanding of magnetic and electronic structures of Ti ₃ C ₂ monolayer and its derivatives. <i>Solid State Communications</i> , 2015, 222, 9-13.	0.9	41
33	A promising way to open an energy gap in bilayer graphene. <i>Nanoscale</i> , 2015, 7, 17096-17101.	2.8	13
34	Atomically Thin Transition-Metal Dinitrides: High-Temperature Ferromagnetism and Half-Metallicity. <i>Nano Letters</i> , 2015, 15, 8277-8281.	4.5	168
35	Improved permeability and selectivity in porous graphene for hydrogen purification. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25755-25759.	1.3	39