Chengxi Huang

List of Publications by Year
in descending order

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35	1,761	361413 20	361022 35
papers	citations	h-index	g-index

35	35	35	2145
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Toward Intrinsic Room-Temperature Ferromagnetism in Two-Dimensional Semiconductors. Journal of the American Chemical Society, 2018, 140, 11519-11525.	13.7	280
2	Prediction of Intrinsic Ferromagnetic Ferroelectricity in a Transition-Metal Halide Monolayer. Physical Review Letters, 2018, 120, 147601.	7.8	217
3	Atomically Thin Transition-Metal Dinitrides: High-Temperature Ferromagnetism and Half-Metallicity. Nano Letters, 2015, 15, 8277-8281.	9.1	168
4	Quantum anomalous Hall effect in ferromagnetic transition metal halides. Physical Review B, 2017, 95, .	3.2	110
5	Theoretical Prediction of Phosphorene and Nanoribbons As Fast-Charging Li Ion Battery Anode Materials. Journal of Physical Chemistry C, 2015, 119, 6923-6928.	3.1	96
6	Switchable encapsulation of polysulfides in the transition between sulfur and lithium sulfide. Nature Communications, 2020, 11, 845.	12.8	92
7	Electrical Control of Magnetic Phase Transition in a Type-I Multiferroic Double-Metal Trihalide Monolayer. Physical Review Letters, 2020, 124, 067602.	7.8	84
8	High-Temperature Ferromagnetism in an Fe₃P Monolayer with a Large Magnetic Anisotropy. Journal of Physical Chemistry Letters, 2019, 10, 2733-2738.	4.6	79
9	Boosting the Curie Temperature of Two-Dimensional Semiconducting CrI₃ Monolayer through van der Waals Heterostructures. Journal of Physical Chemistry C, 2019, 123, 17987-17993.	3.1	74
10	Room-Temperature Ferroelectricity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:msup><mml:mrow><mml:mi mathvariant="normal">T</mml:mi></mml:mrow><mml:mrow><mml:mo>â€²</mml:mo></mml:mrow></mml:msup></mml:mrow></mm - <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>ReS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m Multilayers. Physical Review Letters, 2022, 128, 067601.	7.8	52
11	Ultra-High-Temperature Ferromagnetism in Intrinsic Tetrahedral Semiconductors. Journal of the American Chemical Society, 2019, 141, 12413-12418.	13.7	44
12	Theoretical understanding of magnetic and electronic structures of Ti3C2 monolayer and its derivatives. Solid State Communications, 2015, 222, 9-13.	1.9	41
13	Mechanical, Electronic, and Magnetic Properties of NiX₂ (X = Cl, Br, I) Layers. ACS Omega, 2019, 4, 5714-5721.	3.5	40
14	Improved permeability and selectivity in porous graphene for hydrogen purification. Physical Chemistry Chemical Physics, 2014, 16, 25755-25759.	2.8	39
15	Prediction of room-temperature ferromagnetism in a two-dimensional direct band gap semiconductor. Nanoscale, 2020, 12, 15670-15676.	5.6	38
16	Quantum Phase Transition in Germanene and Stanene Bilayer: From Normal Metal to Topological Insulator. Journal of Physical Chemistry Letters, 2016, 7, 1919-1924.	4.6	33
17	First-Principles Prediction of Room-Temperature Ferromagnetic Semiconductor MnS₂ via Isovalent Alloying. Journal of Physical Chemistry C, 2019, 123, 10114-10119.	3.1	33
18	Discovery of twin orbital-order phases in ferromagnetic semiconducting VI₃ monolayer. Physical Chemistry Chemical Physics, 2020, 22, 512-517.	2.8	29

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19	A promising two-dimensional channel material: monolayer antimonide phosphorus. Science China Materials, 2016, 59, 648-656.	6.3	28
20	Toward Room-Temperature Electrical Control of Magnetic Order in Multiferroic van der Waals Materials. Nano Letters, 2022, 22, 5191-5197.	9.1	25
21	High-capacity hydrogen storage in Li-adsorbed g-C3N4. Materials Chemistry and Physics, 2016, 180, 440-444.	4.0	21
22	Tuning Electronic and Magnetic Properties of Two-Dimensional Ferromagnetic Semiconductor CrI₃ through Adsorption of Benzene. Journal of Physical Chemistry C, 2020, 124, 22143-22149.	3.1	20
23	Hydrogenated C₆₀as High-Capacity Stable Anode Materials for Li Ion Batteries. ACS Applied Energy Materials, 2019, 2, 6453-6460.	5.1	19
24	Built-in electric field control of magnetic coupling in van der Waals semiconductors. Physical Review B, 2021, 103, .	3.2	19
25	A promising way to open an energy gap in bilayer graphene. Nanoscale, 2015, 7, 17096-17101.	5.6	13
26	Edge-Modified Graphene Nanoribbons: Appearance of Robust Spiral Magnetism. Journal of Physical Chemistry C, 2017, 121, 1371-1376.	3.1	12
27	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.	3.1	9
28	High-throughput calculations of spintronic tetra-phase transition metal dinitrides. Journal of Materials Chemistry C, 2021, 9, 14401-14407.	5.5	8
29	Valley contrasting in epitaxial growth of In/Tl homoatomic monolayer with anomalous Nernst conductance. Physical Review B, 2016, 94, .	3.2	7
30	Robustness of Superatoms and Their Potential as Building Blocks of Materials: Al₁₃^{â€“} vs B(CN)₄^{â€“}. Journal of Physical Chemistry C, 2020, 124, 6435-6440.	3.1	7
31	Unconventional distortion induced two-dimensional multiferroicity in a CrO₃ monolayer. Nanoscale, 2021, 13, 13048-13056.	5.6	7
32	Atomically dispersed tungsten on metal halide monolayer as a ferromagnetic Chern insulator. Physical Review B, 2018, 98, .	3.2	5
33	Hexagonal Boron Nitrideâ€“Metal Junction: Removing the Schottky Barriers by Grain Boundary. Advanced Theory and Simulations, 2018, 1, 1800045.	2.8	5
34	Effect of Coulomb Correlation on the Magnetic Properties of Mn Clusters. Journal of Physical Chemistry A, 2018, 122, 4350-4356.	2.5	4
35	Pressure-stabilized MnB₆ that exhibits high-temperature ferromagnetism and high ductility at ambient pressure. Journal of Materials Chemistry C, 2022, 10, 4365-4371.	5.5	3