

# Jun Hu

## List of Publications by Year in descending order

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45  
papers

2,052  
citations

257101

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233125

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docs citations

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times ranked

3025  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boosting the Rate Performance of Li <sup>+</sup> S Batteries via Highly Dispersed Cobalt Nanoparticles Embedded into Nitrogen-Doped Hierarchical Porous Carbon. <i>CCS Chemistry</i> , 2022, 4, 2829-2841.	4.6	22
2	Surface Engineering on Commercial Cu Foil for Steering C <sub>2</sub> H <sub>4</sub> /CH <sub>4</sub> Ratio in CO <sub>2</sub> Electroreduction. <i>Nano Letters</i> , 2022, 22, 2988-2994.	4.5	16
3	Room-Temperature Photooxidation of CH <sub>4</sub> to CH <sub>3</sub> OH with Nearly 100% Selectivity over Hetero-ZnO/Fe <sub>2</sub> O <sub>3</sub> Porous Nanosheets. <i>Journal of the American Chemical Society</i> , 2022, 144, 12357-12366.	6.6	59
4	Tuning Dzyaloshinskii-Moriya interaction via an electric field at the Co/h-BN interface. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22246-22250.	1.3	5
5	Pyroelectric nanoplates for reduction of CO <sub>2</sub> to methanol driven by temperature-variation. <i>Nature Communications</i> , 2021, 12, 318.	5.8	51
6	Strong phonon-magnon coupling of an O/Fe(001) surface. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	2.0	6
7	Ferroelectric control of single-molecule magnetism in 2D limit. <i>Science Bulletin</i> , 2020, 65, 1252-1259.	4.3	33
8	Robust spin manipulation in 2D organometallic Kagome lattices: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11045-11052.	1.3	17
9	Optimizing Band Gap of Inorganic Halide Perovskites by Donor-Acceptor Pair Codoping. <i>Inorganic Chemistry</i> , 2020, 59, 6053-6059.	1.9	8
10	Enhancing perpendicular magnetocrystalline anisotropy in Fe ultrathin films by non-noble transition-metal substrate. <i>International Journal of Modern Physics C</i> , 2020, 31, 2050134.	0.8	0
11	Ruderman-Kittel-Kasuya-Yosida Mechanism for Magnetic Ordering of Sparse Fe Adatoms on Graphene. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4441-4445.	1.5	14
12	Large Perpendicular Magnetocrystalline Anisotropy at the Fe/Pb(001) Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 13181-13186.	4.0	10
13	Engineering magnetic anisotropy in two-dimensional magnetic materials. <i>Advances in Physics: X</i> , 2018, 3, 1432415.	1.5	28
14	Large magnetic anisotropy in chemically engineered iridium dimer. <i>Communications Physics</i> , 2018, 1, .	2.0	11
15	Optimizing MoS <sub>2</sub> Edges by Alloying Isovalent W for Robust Hydrogen Evolution Activity. <i>ACS Catalysis</i> , 2018, 8, 9529-9536.	5.5	83
16	Realizing robust large-gap quantum spin Hall state in 2D HgTe monolayer on insulating substrate. <i>2D Materials</i> , 2018, 5, 045012.	2.0	3
17	Chemically Engineering Magnetic Anisotropy of 2D Metalloporphyrin. <i>Advanced Science</i> , 2017, 4, 1700019.	5.6	22
18	Localized Control of Curie Temperature in Perovskite Oxide Film by Capping-Layer-Induced Octahedral Distortion. <i>Physical Review Letters</i> , 2017, 119, 177203.	2.9	31

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19	Search for giant magnetic anisotropy in transition-metal dimers on defected hexagonal boron nitride sheet. <i>Journal of Chemical Physics</i> , 2016, 144, 204704.	1.2	10
20	Magnetic Anisotropy of Small Iron Clusters ( $n=5$ ). <i>Journal of Cluster Science</i> , 2016, 27, 935-946.	1.7	7
21	Stationary Full Li-Ion Batteries with Interlayer-Expanded V <sub>6</sub> O <sub>13</sub> Cathodes and Lithiated Graphite Anodes. <i>Electrochimica Acta</i> , 2016, 203, 171-177.	2.6	42
22	Photo-spin-voltaic effect. <i>Nature Physics</i> , 2016, 12, 861-866.	6.5	52
23	Giant magnetic anisotropy of a 5d transition metal decorated two-dimensional polyphthalocyanine framework. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2147-2154.	2.7	35
24	Effect of chemical order on the magnetic and electronic properties of epitaxial off-stoichiometry Fe <sub>x</sub> Si <sub>1-x</sub> thin films. <i>Physical Review B</i> , 2015, 91, .	1.1	24
25	Effect of structure on the magnetic anisotropy of L <sub>1</sub> nanoparticles. <i>Physical Review B</i> , 2015, 92, .	1.1	24
26	Candidate Source of Flux Noise in SQUIDS: Adsorbed Oxygen Molecules. <i>Physical Review Letters</i> , 2015, 115, 077002.	2.9	43
27	Chern Half Metals: A New Class of Topological Materials to Realize the Quantum Anomalous Hall Effect. <i>Nano Letters</i> , 2015, 15, 2074-2078.	4.5	47
28	Magneto-optical Kerr effect in L1 FePdPt ternary alloys: Experiments and first-principles calculations. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	5
29	Electric field control and effect of Pd capping on magnetocrystalline anisotropy in FePd thin films: A first-principles study. <i>Physical Review B</i> , 2014, 89, .	1.1	41
30	Giant Magnetic Anisotropy of Transition-Metal Dimers on Defected Graphene. <i>Nano Letters</i> , 2014, 14, 1853-1858.	4.5	128
31	Control of the Magnetism and Magnetic Anisotropy of a Single-Molecule Magnet with an Electric Field. <i>Physical Review Letters</i> , 2013, 110, 097202.	2.9	135
32	Pseudodielectric function and critical-point energies of iron pyrite. <i>Physical Review B</i> , 2012, 86, .	1.1	34
33	Giant Topological Insulator Gap in Graphene with $\gamma$ Adatoms. <i>Physical Review Letters</i> , 2012, 109, 266801.	2.9	186
34	Effect of surface stoichiometry on the band gap of the pyrite FeS(100) surface. <i>Physical Review B</i> , 2012, 85, .	1.1	73
35	First-principles studies of the electronic properties of native and substitutional anionic defects in bulk iron pyrite. <i>Physical Review B</i> , 2012, 85, .	1.1	83
36	Increasing the Band Gap of Iron Pyrite by Alloying with Oxygen. <i>Journal of the American Chemical Society</i> , 2012, 134, 13216-13219.	6.6	96

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37	Engineering a Robust Quantum Spin Hall State in Graphene via Adatom Deposition. <i>Physical Review X</i> , 2011, 1, .	2.8	284
38	Effects on Electronic Properties of Molecule Adsorption on CuO Surfaces and Nanowires. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17120-17126.	1.5	115
39	Formation of Pd Monomers and Dimers on a Single-Crystal Pd <sub>3</sub> Fe(111) Surface. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2493-2497.	2.1	5
40	Surface effect on the size- and orientation-dependent elastic properties of single-crystal ZnO nanostructures. <i>Journal of Applied Physics</i> , 2009, 105, 034302.	1.1	11
41	Theoretical Study of H Diffusion Behavior and the Vibrational Properties of Li-H Complexes in ZnO. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11381-11384.	1.5	1
42	The optical and vibrational properties of dominant defects in undoped ZnO: A first-principles study. <i>Journal of Applied Physics</i> , 2009, 105, 083710.	1.1	17
43	A study of the size-dependent elastic properties of ZnO nanowires and nanotubes. <i>Nanotechnology</i> , 2008, 19, 285710.	1.3	44
44	Electronic structures of defects in ZnO: Hybrid density functional studies. <i>Journal of Chemical Physics</i> , 2008, 129, 154706.	1.2	57
45	Hydrogen diffusion behavior in N doped ZnO: First-principles study. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	26