

# Jun Hu

## List of Publications by Year in descending order

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45  
papers

2,052  
citations

257450

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all docs

48  
docs citations

48  
times ranked

3025  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering a Robust Quantum Spin Hall State in Graphene via Adatom Deposition. <i>Physical Review X</i> , 2011, 1, .	8.9	284
2	Giant Topological Insulator Gap in Graphene with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 5 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle d \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{Adatoms}$ . <i>Physical Review Letters</i> , 2012, 109, 266801.	7.8	186
3	Control of the Magnetism and Magnetic Anisotropy of a Single-Molecule Magnet with an Electric Field. <i>Physical Review Letters</i> , 2013, 110, 097202.	7.8	135
4	Giant Magnetic Anisotropy of Transition-Metal Dimers on Defected Graphene. <i>Nano Letters</i> , 2014, 14, 1853-1858.	9.1	128
5	Effects on Electronic Properties of Molecule Adsorption on CuO Surfaces and Nanowires. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17120-17126.	3.1	115
6	Increasing the Band Gap of Iron Pyrite by Alloying with Oxygen. <i>Journal of the American Chemical Society</i> , 2012, 134, 13216-13219.	13.7	96
7	First-principles studies of the electronic properties of native and substitutional anionic defects in bulk iron pyrite. <i>Physical Review B</i> , 2012, 85, .	3.2	83
8	Optimizing MoS <sub>2</sub> Edges by Alloying Isovalent W for Robust Hydrogen Evolution Activity. <i>ACS Catalysis</i> , 2018, 8, 9529-9536.	11.2	83
9	Effect of surface stoichiometry on the band gap of the pyrite FeS <sub>2</sub> (100) surface. <i>Physical Review B</i> , 2012, 85, .	3.2	73
10	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.	13.7	59
11	Electronic structures of defects in ZnO: Hybrid density functional studies. <i>Journal of Chemical Physics</i> , 2008, 129, 154706.	3.0	57
12	Photo-spin-voltaic effect. <i>Nature Physics</i> , 2016, 12, 861-866.	16.7	52
13	Pyroelectric nanoplates for reduction of CO <sub>2</sub> to methanol driven by temperature-variation. <i>Nature Communications</i> , 2021, 12, 318.	12.8	51
14	Chern Half Metals: A New Class of Topological Materials to Realize the Quantum Anomalous Hall Effect. <i>Nano Letters</i> , 2015, 15, 2074-2078.	9.1	47
15	A study of the size-dependent elastic properties of ZnO nanowires and nanotubes. <i>Nanotechnology</i> , 2008, 19, 285710.	2.6	44
16	Candidate Source of Flux Noise in SQUIDS: Adsorbed Oxygen Molecules. <i>Physical Review Letters</i> , 2015, 115, 077002.	7.8	43
17	Stationary Full Li-Ion Batteries with Interlayer-Expanded V6O13 Cathodes and Lithiated Graphite Anodes. <i>Electrochimica Acta</i> , 2016, 203, 171-177.	5.2	42
18	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, .	3.2	41

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19	Giant magnetic anisotropy of a 5d transition metal decorated two-dimensional polyphthalocyanine framework. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2147-2154.	5.5	35
20	Pseudodielectric function and critical-point energies of iron pyrite. <i>Physical Review B</i> , 2012, 86, .	3.2	34
21	Ferroelectric control of single-molecule magnetism in 2D limit. <i>Science Bulletin</i> , 2020, 65, 1252-1259.	9.0	33
22	Localized Control of Curie Temperature in Perovskite Oxide Film by Capping-Layer-Induced Octahedral Distortion. <i>Physical Review Letters</i> , 2017, 119, 177203.	7.8	31
23	Engineering magnetic anisotropy in two-dimensional magnetic materials. <i>Advances in Physics: X</i> , 2018, 3, 1432415.	4.1	28
24	Hydrogen diffusion behavior in N doped ZnO: First-principles study. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	26
25	Effect of chemical order on the magnetic and electronic properties of epitaxial off-stoichiometry $\text{Fe}_x\text{Si}_{1-x}$ thin films. <i>Physical Review B</i> , 2015, 91, .	3.2	24
26	Chemically Engineering Magnetic Anisotropy of 2D Metalloporphyrin. <i>Advanced Science</i> , 2017, 4, 1700019.	11.2	22
27	Boosting the Rate Performance of Li-S Batteries via Highly Dispersed Cobalt Nanoparticles Embedded into Nitrogen-Doped Hierarchical Porous Carbon. <i>CCS Chemistry</i> , 2022, 4, 2829-2841.	7.8	22
28	Effect of structure on the magnetic anisotropy of $\text{Bi}_2\text{Te}_3$ nanoparticles. <i>Physical Review B</i> , 2015, 92, .	3.2	20
29	The optical and vibrational properties of dominant defects in undoped ZnO: A first-principles study. <i>Journal of Applied Physics</i> , 2009, 105, 083710.	2.5	17
30	Robust spin manipulation in 2D organometallic Kagome lattices: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11045-11052.	2.8	17
31	Surface Engineering on Commercial Cu Foil for Steering $\text{C}_{20}\text{H}_{40}/\text{CH}_4$ Ratio in $\text{CO}_2$ Electroreduction. <i>Nano Letters</i> , 2022, 22, 2988-2994.	9.1	16
32	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.	3.1	14
33	Surface effect on the size- and orientation-dependent elastic properties of single-crystal ZnO nanostructures. <i>Journal of Applied Physics</i> , 2009, 105, 034302.	2.5	11
34	Large magnetic anisotropy in chemically engineered iridium dimer. <i>Communications Physics</i> , 2018, 1, .	5.3	11
35	Search for giant magnetic anisotropy in transition-metal dimers on defected hexagonal boron nitride sheet. <i>Journal of Chemical Physics</i> , 2016, 144, 204704.	3.0	10
36	Large Perpendicular Magnetocrystalline Anisotropy at the Fe/Pb(001) Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 13181-13186.	8.0	10

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37	Optimizing Band Gap of Inorganic Halide Perovskites by Donor-acceptor Pair Codoping. <i>Inorganic Chemistry</i> , 2020, 59, 6053-6059.	4.0	8
38	Magnetic Anisotropy of Small Iron Clusters ( $n=5$ ). <i>Journal of Cluster Science</i> , 2016, 27, 935-946.	3.3	7
39	Strong phonon-magnon coupling of an O/Fe(001) surface. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	5.1	6
40	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.	4.6	5
41	Magneto-optical Kerr effect in L1 FePdPt ternary alloys: Experiments and first-principles calculations. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	5
42	Tuning Dzyaloshinskii-Moriya interaction via an electric field at the Co/h-BN interface. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22246-22250.	2.8	5
43	Realizing robust large-gap quantum spin Hall state in 2D HgTe monolayer on insulating substrate. <i>2D Materials</i> , 2018, 5, 045012.	4.4	3
44	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.	3.1	1
45	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.	1.7	0