

Jun Hu

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,052
citations

257101

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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, . | 2.8 | 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. | 2.9 | 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. | 2.9 | 135 |
| 4 | Giant Magnetic Anisotropy of Transition-Metal Dimers on Defected Graphene. <i>Nano Letters</i> , 2014, 14, 1853-1858. | 4.5 | 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. | 1.5 | 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. | 6.6 | 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, . | 1.1 | 83 |
| 8 | Optimizing MoS ₂ Edges by Alloying Isovalent W for Robust Hydrogen Evolution Activity. <i>ACS Catalysis</i> , 2018, 8, 9529-9536. | 5.5 | 83 |
| 9 | Effect of surface stoichiometry on the band gap of the pyrite FeS ₂ (100) surface. <i>Physical Review B</i> , 2012, 85, . | 1.1 | 73 |
| 10 | Room-Temperature Photooxidation of CH ₄ to CH ₃ OH with Nearly 100% Selectivity over Hetero-ZnO/Fe ₂ O ₃ Porous Nanosheets. <i>Journal of the American Chemical Society</i> , 2022, 144, 12357-12366. | 6.6 | 59 |
| 11 | Electronic structures of defects in ZnO: Hybrid density functional studies. <i>Journal of Chemical Physics</i> , 2008, 129, 154706. | 1.2 | 57 |
| 12 | Photo-spin-voltaic effect. <i>Nature Physics</i> , 2016, 12, 861-866. | 6.5 | 52 |
| 13 | Pyroelectric nanoplates for reduction of CO ₂ to methanol driven by temperature-variation. <i>Nature Communications</i> , 2021, 12, 318. | 5.8 | 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. | 4.5 | 47 |
| 15 | A study of the size-dependent elastic properties of ZnO nanowires and nanotubes. <i>Nanotechnology</i> , 2008, 19, 285710. | 1.3 | 44 |
| 16 | Candidate Source of Flux Noise in SQUIDS: Adsorbed Oxygen Molecules. <i>Physical Review Letters</i> , 2015, 115, 077002. | 2.9 | 43 |
| 17 | Stationary Full Li-Ion Batteries with Interlayer-Expanded V6O13 Cathodes and Lithiated Graphite Anodes. <i>Electrochimica Acta</i> , 2016, 203, 171-177. | 2.6 | 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, . | 1.1 | 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. | 2.7 | 35 |
| 20 | Pseudodielectric function and critical-point energies of iron pyrite. <i>Physical Review B</i> , 2012, 86, . | 1.1 | 34 |
| 21 | Ferroelectric control of single-molecule magnetism in 2D limit. <i>Science Bulletin</i> , 2020, 65, 1252-1259. | 4.3 | 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. | 2.9 | 31 |
| 23 | Engineering magnetic anisotropy in two-dimensional magnetic materials. <i>Advances in Physics: X</i> , 2018, 3, 1432415. | 1.5 | 28 |
| 24 | Hydrogen diffusion behavior in N doped ZnO: First-principles study. <i>Journal of Applied Physics</i> , 2008, 103, . | 1.1 | 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, . | 1.1 | 24 |
| 26 | Chemically Engineering Magnetic Anisotropy of 2D Metalloporphyrin. <i>Advanced Science</i> , 2017, 4, 1700019. | 5.6 | 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. | 4.6 | 22 |
| 28 | Effect of structure on the magnetic anisotropy of $\text{Li}_2\text{M}_2\text{O}_4$ nanoparticles. <i>Physical Review B</i> , 2015, 92, . | 1.1 | 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. | 1.1 | 17 |
| 30 | 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 |
| 31 | Surface Engineering on Commercial Cu Foil for Steering $\text{C}_2\text{H}_4/\text{CH}_4$ Ratio in CO_2 Electroreduction. <i>Nano Letters</i> , 2022, 22, 2988-2994. | 4.5 | 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. | 1.5 | 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. | 1.1 | 11 |
| 34 | Large magnetic anisotropy in chemically engineered iridium dimer. <i>Communications Physics</i> , 2018, 1, . | 2.0 | 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. | 1.2 | 10 |
| 36 | Large Perpendicular Magnetocrystalline Anisotropy at the Fe/Pb(001) Interface. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13181-13186. | 4.0 | 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. | 1.9 | 8 |
| 38 | Magnetic Anisotropy of Small Iron Clusters ($n=2-5$). <i>Journal of Cluster Science</i> , 2016, 27, 935-946. | 1.7 | 7 |
| 39 | Strong phonon-magnon coupling of an O/Fe(001) surface. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1. | 2.0 | 6 |
| 40 | Formation of Pd Monomers and Dimers on a Single-Crystal Pd ₃ Fe(111) Surface. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2493-2497. | 2.1 | 5 |
| 41 | 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 |
| 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. | 1.3 | 5 |
| 43 | 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 |
| 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. | 1.5 | 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. | 0.8 | 0 |