

Hui Wang

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,880
citations

318942

23
h-index

286692

43
g-index

54
all docs

54
docs citations

54
times ranked

3473
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulating Interfacial Spin Hall Conductivity with Ferroelectricity. Journal of Physical Chemistry Letters, 2022, 13, 3310-3316.	2.1	1
2	CO ₂ -Induced Melting and Solvation Reconfiguration of Phase-Change Electrolyte. Advanced Materials, 2022, 34, e2202869.	11.1	4
3	Atomic-scale insights into the colossal barocaloric effects of neopentyl glycol plastic crystals. Applied Physics Letters, 2022, 120, .	1.5	6
4	Single-metal-atom catalysts supported on graphdiyne catalyze CO oxidation. Dalton Transactions, 2021, 50, 10867-10879.	1.6	8
5	Tailoring the Structural and Electronic Properties of Graphene through Ion Implantation. Materials, 2021, 14, 5080.	1.3	3
6	Understanding colossal barocaloric effects in plastic crystals. Nature Communications, 2020, 11, 4190.	5.8	30
7	Large magnetic anisotropy of single transition metal adatoms on WS ₂ . Journal of Magnetism and Magnetic Materials, 2020, 506, 166796.	1.0	9
8	Tuning the interfacial spin-orbit coupling with ferroelectricity. Nature Communications, 2020, 11, 2627.	5.8	19
9	Unveiling the Electric-Current-Limiting and Photodetection Effect in Two-Dimensional Hydrogenated Borophene. Physical Review Applied, 2019, 11, .	1.5	45
10	Microstructure investigation on magnetostrictive Fe _{100-x} Ga _x and (Fe _{100-x} Ga _x) _{99.8} Tb _{0.2} alloys for 19 ≤ x ≤ 29. Intermetallics, 2019, 115, 106628.	1.8	25
11	First-principles investigation of the effect of substitution and surface adsorption on the magnetostrictive performance of Fe-Ga alloys. Physical Review B, 2019, 99, .	1.1	7
12	Colossal barocaloric effects in plastic crystals. Nature, 2019, 567, 506-510.	13.7	253
13	Bond-Selected Photodissociation of Single Molecules Adsorbed on Metal Surfaces. Physical Review Letters, 2019, 122, 077401.	2.9	15
14	Multifunctional 2D CuSe monolayer nanodevice. Journal of Physics Condensed Matter, 2019, 31, 355301.	0.7	8
15	Real-space charge-density imaging with sub-Ångström resolution by four-dimensional electron microscopy. Nature, 2019, 575, 480-484.	13.7	127
16	Negative differential conductance effect and electrical anisotropy of 2D ZrB ₂ monolayers. Journal of Physics Condensed Matter, 2019, 31, 065301.	0.7	33
17	Non-Destructive Surface Energy Measurements on (100) Galfenol. Advanced Theory and Simulations, 2019, 2, 1800043.	1.3	4
18	Visualization of Nanoplasmonic Coupling to Molecular Orbital in Light Emission Induced by Tunneling Electrons. Nano Letters, 2018, 18, 3076-3080.	4.5	15

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19	Discovery of a magnetic conductive interface in PbZr _{0.2} Ti _{0.8} O ₃ /SrTiO ₃ heterostructures. Nature Communications, 2018, 9, 685.	5.8	20
20	Liquid-like thermal conduction in intercalated layered crystalline solids. Nature Materials, 2018, 17, 226-230.	13.3	136
21	Importance of Coulomb correlation on the quantum anomalous Hall effect in V-doped topological insulators. Physical Review B, 2018, 97, .	1.1	7
22	Mechanical failure of graphene and the anharmonic phonon coupling mechanisms. Carbon, 2018, 126, 404-409.	5.4	4
23	4D Dual- ∞ Spiral Flow. , 2018, 2018, 1372-1375.		0
24	Anisotropic polarization-induced conductance at a ferroelectric-insulator interface. Nature Nanotechnology, 2018, 13, 1132-1136.	15.6	53
25	Evaluating the Stability of Single-Atom Catalysts with High Chemical Activity. Journal of Physical Chemistry C, 2018, 122, 21919-21926.	1.5	20
26	Protected giant magnetic anisotropy in two-dimensional materials: Transition-metal adatoms on defected tungsten disulfide monolayer. Journal of Magnetism and Magnetic Materials, 2018, 462, 167-171.	1.0	9
27	How does the electric current propagate through fully-hydrogenated borophene?. Physical Chemistry Chemical Physics, 2018, 20, 21552-21556.	1.3	32
28	Hydrogen as a source of flux noise in SQUIDs. Physical Review B, 2018, 98, .	1.1	11
29	Searching for large-gap quantum spin hall insulators: boron-nitride/(Pb, Tl)ETQq ₁ 1 0.784314 rgBT /Overlock 10 Tf _{2.8} 342 Td ₆ (Sn) $\bar{1}\pm$ -Al		
30	New Class of 3D Topological Insulator in Double Perovskite. Journal of Physical Chemistry Letters, 2017, 8, 332-339.	2.1	27
31	A strain-induced new phase diagram and unusually high Curie temperature in manganites. Journal of Materials Chemistry C, 2017, 5, 7813-7819.	2.7	6
32	Understanding the Giant Enhancement of Exchange Interaction in $\text{Bi}_2\text{Te}_3/\text{Bi}_2\text{Se}_3$ Heterostructures. Physical Review Letters, 2017, 119, 027201.	2.9	47
33	Magnetoelastic auxetic-like behavior in Galfenol: Experimental data and simulations. Physica Status Solidi (B): Basic Research, 2016, 253, 1440-1448.	0.7	8
34	Search for giant magnetic anisotropy in transition-metal dimers on defected hexagonal boron nitride sheet. Journal of Chemical Physics, 2016, 144, 204704.	1.2	10
35	Investigating enhanced mechanical properties in dual-phase Fe-Ga-Tb alloys. Scientific Reports, 2016, 6, 34258.	1.6	27
36	Tunable spin-orbit coupling and symmetry-protected edge states in graphene/WS ₂ . 2D Materials, 2016, 3, 031012.	2.0	135

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37	Possibility of realizing quantum spin Hall effect at room temperature in commensurate stanene. <i>Physical Review Letters</i> , 2015, 115, 077002.	1.1	32
38	Colossal negative thermal expansion induced by magnetic phase competition on frustrated lattices in Laves phase compound (Hf,Ta)Fe ₂ . <i>Physical Review B</i> , 2016, 93, .	1.1	43
39	Origin and Reduction of $\langle f \rangle$ Magnetic Flux Noise in Superconducting Devices. <i>Physical Review Applied</i> , 2016, 6, .	1.5	105
40	Orientation dependences of surface morphologies and energies of iron-gallium alloys. <i>Surface Science</i> , 2016, 647, 26-32.	0.8	7
41	Candidate Source of Flux Noise in SQUIDS: Adsorbed Oxygen Molecules. <i>Physical Review Letters</i> , 2015, 115, 077002.	2.9	43
42	In Situ Electrical Conductivity of LiMnO ₂ Nanowires as a Function of x and Size. <i>Chemistry of Materials</i> , 2015, 27, 3494-3504.	3.2	13
43	Trapping and Characterization of a Single Hydrogen Molecule in a Continuously Tunable Nanocavity. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3453-3457.	2.1	21
44	Rhenium-phthalocyanine molecular nanojunction with high magnetic anisotropy and high spin filtering efficiency. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	17
45	Large Tunability of Physical Properties of Manganite Thin Films by Epitaxial Strain. <i>Chinese Physics Letters</i> , 2015, 32, 087504.	1.3	7
46	Unveiling the electronic origin of anion order in CrO ₂ F. <i>Chemical Communications</i> , 2014, 50, 799-801.	2.2	5
47	Large-scale first-principles determination of anisotropic mechanical properties of magnetostrictive FeGa alloys. <i>Acta Materialia</i> , 2013, 61, 2919-2925.	3.8	40
48	Rotational and Vibrational Excitations of a Hydrogen Molecule Trapped within a Nanocavity of Tunable Dimension. <i>Physical Review Letters</i> , 2013, 111, 146102.	2.9	59
49	Understanding strong magnetostriction in Fe _{100-x} Ga _x alloys. <i>Scientific Reports</i> , 2013, 3, 3521.	1.6	74
50	First-principles determination of the rhombohedral magnetostriction of FeAl _{100-x} alloys. <i>Physical Review Letters</i> , 2010, 105, 087201.	1.1	25
51	Ab initio studies of the effect of nanoclusters on magnetostriction of Fe _{1-x} Ga _x alloys. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	56
52	$\langle f \rangle$ Flux Noise in Josephson Phase Qubits. <i>Physical Review Letters</i> , 2007, 99, 187006.	2.9	157