

Jun Hu

List of Publications by Year in descending order

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46
papers

2,490
citations

331259

21
h-index

223531

46
g-index

47
all docs

47
docs citations

47
times ranked

3714
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	Intrinsic Spin Seebeck Effect in Au/YIG . <i>Physical Review Letters</i> , 2013, 110, 067206.	2.9	246
3	Scanning polarization force microscopy: A technique for imaging liquids and weakly adsorbed layers. <i>Applied Physics Letters</i> , 1995, 67, 476-478.	1.5	236
4	Design of Hetero-Nanostructures on MoS_2 Nanosheets To Boost NO_2 Room-Temperature Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22640-22649.	4.0	199
5	Giant Topological Insulator Gap in Graphene with $5d$ Adatoms. <i>Physical Review Letters</i> , 2012, 109, 266801.	2.9	186
6	Conductometric chemical sensor based on individual CuO nanowires. <i>Nanotechnology</i> , 2010, 21, 485502.	1.3	139
7	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
8	Giant Magnetic Anisotropy of Transition-Metal Dimers on Defected Graphene. <i>Nano Letters</i> , 2014, 14, 1853-1858.	4.5	128
9	Water-mediated signal multiplication with Y-shaped carbon nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18120-18124.	3.3	120
10	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
11	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
12	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
13	Photo-spin-voltaic effect. <i>Nature Physics</i> , 2016, 12, 861-866.	6.5	52
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	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
16	Role of Surface Iron in Enhanced Activity for the Oxygen Reduction Reaction on a $\text{Pd}_3\text{Fe}(111)$ Single-Crystal Alloy. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10182-10185.	7.2	33
17	Ferroelectric control of single-molecule magnetism in 2D limit. <i>Science Bulletin</i> , 2020, 65, 1252-1259.	4.3	33
18	Nanoscale Imaging of a Corrosion Reaction: H_2SO_4 Sulfuric Acid Droplets on Aluminum Surfaces. <i>The Journal of Physical Chemistry</i> , 1996, 100, 9-11.	2.9	31

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19	Engineering magnetic anisotropy in two-dimensional magnetic materials. <i>Advances in Physics: X</i> , 2018, 3, 1432415.	1.5	28
20	A Chemically-Responsive Nanojunction within a Silver Nanowire. <i>Nano Letters</i> , 2012, 12, 1729-1735.	4.5	26
21	Chemically Engineering Magnetic Anisotropy of 2D Metalloporphyrin. <i>Advanced Science</i> , 2017, 4, 1700019.	5.6	22
22	Effect of structure on the magnetic anisotropy of $\text{L}(\text{Mn})\text{O}$ nanoparticles. <i>Physical Review B</i> , 2015, 92, .	1.4	20
23	Charging of nanostructured and partially reduced graphene oxide sheets. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	17
24	Electrostatic force spectroscopy revealing the degree of reduction of individual graphene oxide sheets. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1146-1155.	1.5	17
25	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
26	Charge transfer between reduced graphene oxide sheets on insulating substrates. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	13
27	Humidity induced charge migration on single layer graphene oxide sheets. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	12
28	Sample-charged mode scanning polarization force microscopy for characterizing reduced graphene oxide sheets. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	11
29	Large magnetic anisotropy in chemically engineered iridium dimer. <i>Communications Physics</i> , 2018, 1, .	2.0	11
30	Large Perpendicular Magnetocrystalline Anisotropy at the Fe/Pb(001) Interface. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13181-13186.	4.0	10
31	Balancing Activity and Stability in a Ternary Au-Pd/Fe Electrocatalyst for ORR with High Surface Coverages of Au. <i>ChemCatChem</i> , 2019, 11, 693-697.	1.8	9
32	Evaluation of the Radial Deformability of Poly(dG)-Poly(dC) DNA and G4-DNA Using Vibrating Scanning Polarization Force Microscopy. <i>Langmuir</i> , 2010, 26, 7523-7528.	1.6	8
33	Study of substrate-directed ordering of long double-stranded DNA molecules on bare highly oriented pyrolytic graphite surface based on atomic force microscopy relocation imaging. <i>Journal of Vacuum Science & Technology B</i> , 2008, 26, L41.	1.3	7
34	Molecular Expansion of an Individual Coiled DNA on a Graphite Surface. <i>Langmuir</i> , 2011, 27, 2405-2410.	1.6	7
35	Magnetic Anisotropy of Small Irn Clusters ($n=5$). <i>Journal of Cluster Science</i> , 2016, 27, 935-946.	1.7	7
36	Humidity effects on scanning polarization force microscopy imaging. <i>Applied Surface Science</i> , 2017, 412, 497-504.	3.1	7

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37	Study of Radial Compression Elasticity of Single Xanthan Molecules by Vibrating Scanning Polarization Force Microscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3864-3867.	0.9	6
38	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
39	Engineering giant magnetic anisotropy in single-molecule magnets by dimerizing heavy transition-metal atoms. <i>Applied Physics Express</i> , 2018, 11, 055201.	1.1	5
40	Direct imaging charge distribution in reduced graphene oxide sheets induced by isolated charges. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 415303.	1.3	4
41	Prediction of huge magnetic anisotropies in 5 <i>d</i> transition metallocenes. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 435802.	0.7	4
42	Nanoscale mapping of dielectric properties based on surface adhesion force measurements. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 900-906.	1.5	3
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	Alloying-induced topological transition in 2D transition-metal dichalcogenide semiconductors. <i>Applied Physics Express</i> , 2019, 12, 045003.	1.1	3
45	Topological transition in monolayer blue phosphorene with transition-metal adatom under strain. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 443-449.	0.6	1
46	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