

Menghao Wu

List of Publications by Year in descending order

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70
papers

4,849
citations

126708

33
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95083

68
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all docs

74
docs citations

74
times ranked

4903
citing authors

#	ARTICLE	IF	CITATIONS
1	A multiferroic vanadium phosphide monolayer with ferromagnetic half-metallicity and topological Dirac states. <i>Nanoscale Horizons</i> , 2022, 7, 192-197.	4.1	11
2	SbCl ₄ : An Exceptional Superhalogen as the Building Block of a Mixed Valence Supercrystal with Unconventional Ferroelectricity. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1049-1056.	2.1	6
3	Interfacial triferroicity in monolayer chromium dihalide. <i>Physical Review B</i> , 2022, 105, .	1.1	5
4	High- <i>T_C</i> Two-Dimensional Ferroelectric CuCrS ₂ Grown <i>via</i> Chemical Vapor Deposition. <i>ACS Nano</i> , 2022, 16, 8141-8149.	7.3	23
5	Ultra-high piezoelectric coefficients and strain-sensitive Curie temperature in hydrogen-bonded systems. <i>National Science Review</i> , 2021, 8, nwa203.	4.6	9
6	OD/1D organic ferroelectrics/multiferroics for ultrahigh density integration: Helical hydrogen-bonded chains, multi-mode switching, and proton synaptic transistors. <i>Journal of Chemical Physics</i> , 2021, 154, 044705.	1.2	9
7	A family of ionic supersalts with covalent-like directionality and unconventional multiferroicity. <i>Nature Communications</i> , 2021, 12, 1331.	5.8	19
8	Two-Dimensional van der Waals Ferroelectrics: Scientific and Technological Opportunities. <i>ACS Nano</i> , 2021, 15, 9229-9237.	7.3	93
9	Vertical ferroelectricity in two-dimensional mixed-valence tin sulfide system: Unprecedented piezoelectricity, efficient nanogenerator and facile control of morphotropic phase transformations. <i>Nano Energy</i> , 2021, 83, 105786.	8.2	7
10	Room-Temperature Ferroelectricity in 2D Metalâ€“Telluriumâ€“Oxyhalide Cd ₇ Te ₇ Cl ₈ O ₁₇ <i>via</i> Selenium-Induced Selective-Bonding Growth. <i>ACS Nano</i> , 2021, 15, 16525-16532.	7.3	12
11	Sliding ferroelectricity in two-dimensional MoA ₂ N ₄ (A = Si or Ge) bilayers: high polarizations and Moir� potentials. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19659-19663.	5.2	32
12	Sliding ferroelectricity in 2D van der Waals materials: Related physics and future opportunities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	83
13	Room-temperature multiferroicity and diversified magnetoelectric couplings in 2D materials. <i>National Science Review</i> , 2020, 7, 373-380.	4.6	50
14	Strain-induced phase transition and giant piezoelectricity in monolayer tellurene. <i>Nanoscale</i> , 2020, 12, 167-172.	2.8	25
15	Ultrahigh-strain ferroelasticity in two-dimensional honeycomb monolayers: from covalent to metallic bonding. <i>Science Bulletin</i> , 2020, 65, 147-152.	4.3	21
16	Fullerene-based OD ferroelectrics/multiferroics for ultrahigh-density and ultrafast nonvolatile memories. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12039-12043.	1.3	7
17	Constructing Stable and Potentially High-Performance Hybrid Organic-Inorganic Perovskites with â€œUnstableâ€“Cations. <i>Research</i> , 2020, 2020, 1986576.	2.8	4
18	Research progress of two-dimensional interlayer-sliding ferroelectricity. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 217707.	0.2	4

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19	Low energy dissipation readout of single-molecule ferroelectric states by a spin-Seebeck signal. <i>Physical Review Research</i> , 2020, 2, .	1.3	5
20	Various polymorphs of group III-VI (GaSe, InSe, GaTe) monolayers with quasi-degenerate energies: facile phase transformations, high-strain plastic deformation, and ferroelastic switching. <i>Materials Today Physics</i> , 2020, 15, 100229.	2.9	4
21	Theoretical study of oxygen molecules adsorption on M ₃ C ₁₂ S ₁₂ (M = Co, Rh) Class 2D metal-organic frameworks. <i>Chemical Physics Letters</i> , 2019, 731, 136581.	1.2	0
22	Single-phase multiferroics: new materials, phenomena, and physics. <i>National Science Review</i> , 2019, 6, 653-668.	4.6	136
23	Facile and Versatile Functionalization of Two-Dimensional Carbon Nitrides by Design: Magnetism/Multiferroicity, Valleytronics, and Photovoltaics. <i>Advanced Functional Materials</i> , 2019, 29, 1905752.	7.8	19
24	Phase transitions and ferroelasticity-multiferroicity in bulk and two-dimensional silver and copper monohalides. <i>Nanoscale Horizons</i> , 2019, 4, 1106-1112.	4.1	32
25	Sodium bismuth dichalcogenides: candidates for ferroelectric high-mobility semiconductors for multifunctional applications. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8553-8558.	1.3	21
26	2D Diluted Multiferroic Semiconductors upon Intercalation. <i>Advanced Electronic Materials</i> , 2019, 5, 1800960.	2.6	21
27	Design of Single-Molecule Multiferroics for Efficient Ultrahigh-Density Nonvolatile Memories. <i>Advanced Science</i> , 2019, 6, 1801572.	5.6	41
28	Transition-metal-doped group-IV monochalcogenides: a combination of two-dimensional triferroics and diluted magnetic semiconductors. <i>Nanotechnology</i> , 2018, 29, 215703.	1.3	41
29	Proton transfer ferroelectricity/multiferroicity in rutile oxyhydroxides. <i>Nanoscale</i> , 2018, 10, 9509-9515.	2.8	13
30	The rise of two-dimensional van der Waals ferroelectrics. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2018, 8, e1365.	6.2	127
31	Co-mixing hydrogen and methane may double the energy storage capacity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8916-8922.	5.2	22
32	Origin of Two-Dimensional Vertical Ferroelectricity in WTe ₂ Bilayer and Multilayer. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 7160-7164.	2.1	168
33	Unusual Ferroelectricity of Trans-Unitcell Ion-Displacement and Multiferroic Soliton in Sodium and Potassium Hydroxides. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35361-35366.	4.0	10
34	Type-II Multiferroic Hf ₂ VC ₂ F ₂ MXene Monolayer with High Transition Temperature. <i>Journal of the American Chemical Society</i> , 2018, 140, 9768-9773.	6.6	179
35	Salt-Templated Synthesis of 2D Metallic MoN and Other Nitrides. <i>ACS Nano</i> , 2017, 11, 2180-2186.	7.3	359
36	High-temperature intrinsic quantum anomalous Hall effect in rare Earth monohalide. <i>2D Materials</i> , 2017, 4, 021014.	2.0	28

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37	Two-Dimensional Metal-Free Organic Multiferroic Material for Design of Multifunctional Integrated Circuits. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1973-1978.	2.1	64
38	Binary Compound Bilayer and Multilayer with Vertical Polarizations: Two-Dimensional Ferroelectrics, Multiferroics, and Nanogenerators. <i>ACS Nano</i> , 2017, 11, 6382-6388.	7.3	301
39	Bismuth Oxychalcogenides: A New Class of Ferroelectric/Ferroelastic Materials with Ultra High Mobility. <i>Nano Letters</i> , 2017, 17, 6309-6314.	4.5	208
40	Chemically Functionalized Phosphorene: Two-Dimensional Multiferroics with Vertical Polarization and Mobile Magnetism. <i>Journal of the American Chemical Society</i> , 2017, 139, 11506-11512.	6.6	119
41	Conetronics in 2D metal-organic frameworks: double/half Dirac cones and quantum anomalous Hall effect. <i>2D Materials</i> , 2017, 4, 015015.	2.0	41
42	Monolayer MXenes: promising half-metals and spin gapless semiconductors. <i>Nanoscale</i> , 2016, 8, 8986-8994.	2.8	380
43	Intrinsic Ferroelasticity and/or Multiferroicity in Two-Dimensional Phosphorene and Phosphorene Analogues. <i>Nano Letters</i> , 2016, 16, 3236-3241.	4.5	491
44	Interference evidence for Rashba-type spin splitting on a semimetallic WT_2 surface. <i>Physical Review B</i> , 2016, 94, .	1.1	11
45	Ferroelectricity in Covalently functionalized Two-dimensional Materials: Integration of High-mobility Semiconductors and Nonvolatile Memory. <i>Nano Letters</i> , 2016, 16, 7309-7315.	4.5	99
46	Temperature-controlled spin filter and spin valve based on Fe-doped monolayer MoS_2 . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6053-6058.	1.3	25
47	Design for a spin-Seebeck diode based on two-dimensional materials. <i>Physical Review B</i> , 2015, 92, .	1.1	59
48	Nine New Phosphorene Polymorphs with Non-Honeycomb Structures: A Much Extended Family. <i>Nano Letters</i> , 2015, 15, 3557-3562.	4.5	275
49	Tunable Exciton Funnel Using Moiré Superlattice in Twisted van der Waals Bilayer. <i>Nano Letters</i> , 2014, 14, 5350-5357.	4.5	55
50	Magnetic hollow cages with colossal moments. <i>Journal of Chemical Physics</i> , 2013, 139, 044301.	1.2	6
51	Edge decorated SiC nanoribbons with metal: Coexistence of planar tetracoordinate carbon and silicon. <i>Chemical Physics Letters</i> , 2013, 580, 78-81.	1.2	10
52	Unusual Magnetic Properties of Functionalized Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2482-2488.	2.1	22
53	Functionalized Graphitic Carbon Nitride for Efficient Energy Storage. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6055-6059.	1.5	171
54	Giant magnetic moments of B and C doped cuboctahedral Mn_{13} clusters. <i>Nanoscale</i> , 2013, 5, 2114.	2.8	5

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55	Hydroxyl-decorated graphene systems as candidates for organic metal-free ferroelectrics, multiferroics, and high-performance proton battery cathode materials. <i>Physical Review B</i> , 2013, 87, .	1.1	100
56	Tri-Wing Graphene Nano-Paddle-Wheel with a Single-File Metal Joint: Formation of Multi-Planar Tetracoordinated-Carbon (ptC) Strips. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11378-11385.	1.5	24
57	Origin of the anomalous magnetic behavior of the Fe ₁₃ cluster. <i>Physical Review B</i> , 2012, 86, .	1.1	26
58	Edge-decorated graphene nanoribbons by scandium as hydrogen storage media. <i>Nanoscale</i> , 2012, 4, 915.	2.8	71
59	Multiferroic Materials Based on Organic Transition-Metal Molecular Nanowires. <i>Journal of the American Chemical Society</i> , 2012, 134, 14423-14429.	6.6	49
60	Three-dimensional network model of carbon containing only sp ² -carbon bonds and boron nitride analogues. <i>Chemical Communications</i> , 2011, 47, 4406.	2.2	45
61	Inorganic nanoribbons with unpassivated zigzag edges: Half metallicity and edge reconstruction. <i>Nano Research</i> , 2011, 4, 233-239.	5.8	62
62	Transition-metal-molecular sandwich nanowires as magnetic on/off switch. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	18
63	Charge-injection induced magnetism and half metallicity in single-layer hexagonal group III/V (BN, BP,) Tj ETQq1 1 0.784314 rgBT /Over	1.5	41
64	Patterned Hydrogenation of Graphene: Magnetic Quantum Dot Array. <i>Journal of Physical Chemistry C</i> , 2010, 114, 139-142.	1.5	35
65	Exploration of Half Metallicity in Edge-Modified Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3937-3944.	1.5	105
66	Planar Tetracoordinate Carbon Strips in Edge Decorated Graphene Nanoribbon. <i>Journal of the American Chemical Society</i> , 2010, 132, 5554-5555.	6.6	75
67	Chemically decorated boron-nitride nanoribbons. <i>Frontiers of Physics in China</i> , 2009, 4, 367-372.	1.0	59
68	Materials design of half-metallic graphene and graphene nanoribbons. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	100
69	Frequency dispersion of hysteresis in core/shell magnetic nanoparticle: Monte Carlo simulation. <i>Journal of Applied Physics</i> , 2008, 103, 07B103.	1.1	6
70	Monte Carlo simulation of size, random field and temperature dependences of exchange bias in a core/shell magnetic nanoparticle. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 186202.	0.7	24