Junwei Zhang

List of Publications by Citations

72	1,694	21	39
papers	citations	h-index	g-index
79	2,338	10.1	4.69
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
72	Multidirection Piezoelectricity in Mono- and Multilayered Hexagonal InSe. *ACS Nano*, **2018**, 12, 4976-4983	15.7	133
71	Room-Temperature Ferroelectricity in Hexagonally Layered In2Se3 Nanoflakes down to the Monolayer Limit. *Advanced Functional Materials*, **2018**, 28, 1803738	15.6	127
70	Current-driven magnetization switching in a van der Waals ferromagnet FeGeTe. *Science Advances*, **2019**, 5, eaaw8904	14.3	119
69	Néel-type skyrmion in WTe/FeGeTe van der Waals heterostructure. *Nature Communications*, **2020**, 11, 3860	17.4	81
68	Fe3O4graphene hybrids: nanoscale characterization and their enhanced electromagnetic wave absorption in gigahertz range. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	78
67	AsP/InSe Van der Waals Tunneling Heterojunctions with Ultrahigh Reverse Rectification Ratio and High Photosensitivity. *Advanced Functional Materials*, **2019**, 29, 1900314	15.6	76
66	Gate-Tunable and Multidirection-Switchable Memristive Phenomena in a Van Der Waals Ferroelectric. *Advanced Materials*, **2019**, 31, e1901300	24	67
65	One-pot polylol synthesis of graphene decorated with size- and density-tunable Fe3O4 nanoparticles for porcine pancreatic lipase immobilization. *Carbon*, **2013**, 60, 488-497	10.4	66
64	Crystalline-Amorphous Permalloy@Iron Oxide Core-Shell Nanoparticles Decorated on Graphene as High-Efficiency, Lightweight, and Hydrophobic Microwave Absorbents. *ACS Applied Materials & Interfaces*, **2019**, 11, 6374-6383	9.5	64
63	Spin-momentum locking and spin-orbit torques in magnetic nano-heterojunctions composed of Weyl semimetal WTe. *Nature Communications*, **2018**, 9, 3990	17.4	64
62	High Spin Hall Conductivity in Large-Area Type-II Dirac Semimetal PtTe. *Advanced Materials*, **2020**, 32, e2000513	24	61
61	Direct writing of room temperature and zero field skyrmion lattices by a scanning local magnetic field. *Applied Physics Letters*, **2018**, 112, 132405	3.4	54
60	Co@Co core-shell three-dimensional nano-network for high-performance electrochemical energy storage. *Small*, **2014**, 10, 2618-24	11	46
59	Recyclable Fe3O4@SiO2-Ag magnetic nanospheres for the rapid decolorizing of dye pollutants. *Chinese Journal of Catalysis*, **2013**, 34, 1378-1385	11.3	39
58	Understanding the piezoelectricity of high-performance potassium sodium niobate ceramics from diffused multi-phase coexistence and domain feature. *Journal of Materials Chemistry A*, **2019**, 7, 16803-16811	12	38
57	Enhancement of Dielectric Permittivity of TiCT MXene/Polymer Composites by Controlling Flake Size and Surface Termination. *ACS Applied Materials & Interfaces*, **2019**, 11, 27358-27362	9.5	36
56	Facile one-step synthesis of Ag@Fe3O4 coreshell nanospheres for reproducible SERS substrates. *Journal of Molecular Structure*, **2013**, 1046, 74-81	3.4	35

55	Creating zero-field skyrmions in exchange-biased multilayers through X-ray illumination. *Nature Communications*, **2020**, 11, 949	17.4	34
54	Determination of chirality and density control of Néel-type skyrmions with in-plane magnetic field. *Communications Physics*, **2018**, 1,	5.4	30
53	Creation of a thermally assisted skyrmion lattice in Pt/Co/Ta multilayer films. *Applied Physics Letters* , **2018**, 113, 192403	3.4	28
52	MXene-Derived Ferroelectric Crystals. *Advanced Materials*, **2019**, 31, e1806860	24	26
51	Modifying Temperature Stability of (K,Na)NbO3 Ceramics through Phase Boundary. *Advanced Electronic Materials*, **2018**, 4, 1800205	6.4	21
50	Direct observation of cation distributions of ideal inverse spinel CoFeO nanofibres and correlated magnetic properties. *Nanoscale*, **2017**, 9, 7493-7500	7.7	20
49	Nanoscale characterisation and magnetic properties of Co81Cu19/Cu multilayer nanowires. *Journal of Materials Chemistry C*, **2015**, 3, 85-93	7.1	20
48	Synthesis of three-dimensional free-standing WSe2/C hybrid nanofibers as anodes for high-capacity lithium/sodium ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 19898-19908	13	18
47	Electric field induced magnetic anisotropy transition from fourfold to twofold symmetry in (001) 0.68Pb(Mg1/3Nb2/3)O3-0.32PbTiO3/Fe0.86Si0.14 epitaxial heterostructures. *Applied Physics Letters*, **2016**, 108, 152401	3.4	18
46	Spin Filtering in Epitaxial Spinel Films with Nanoscale Phase Separation. *ACS Nano*, **2017**, 11, 5011-5019	16.7	16
45	Bimagnetic h-Co/h-CoO nanotetrapods: preparation, nanoscale characterization, three-dimensional architecture and their magnetic properties. *Nanoscale*, **2014**, 6, 13710-8	7.7	16
44	Electron Beam Lithography of Magnetic Skyrmions. *Advanced Materials*, **2020**, 32, e2003003	24	14
43	Wafer-scale single-crystal monolayer graphene grown on sapphire substrate.. *Nature Materials*, **2022**,	27	13
42	Realization of the welding of individual TiO2 semiconductor nano-objects using a novel 1D Au80Sn20 nanosolder. *Journal of Materials Chemistry C*, **2015**, 3, 11311-11317	7.1	12
41	Carbon black-supported FM-NC (FM = Fe, Co, and Ni) single-atom catalysts synthesized by the self-catalysis of oxygen-coordinated ferrous metal atoms. *Journal of Materials Chemistry A*, **2020**, 8, 13166-13172	12	12
40	Nanoscale characterization of 1D Sn-3.5Ag nanosolders and their application into nanowelding at the nanoscale. *Nanotechnology*, **2014**, 25, 425301	3.4	12
39	Ferroelectric Field Effect Tuned Giant Electroresistance in LaSrMnO/BaTiO Heterostructures. *ACS Applied Materials & Interfaces*, **2018**, 10, 40328-40334	9.5	12
38	Phase transformation of Sn-based nanowires under electron beam irradiation. *Journal of Materials Chemistry C*, **2015**, 3, 5389-5397	7.1	11

37	Topological Hall Effect in Traditional Ferromagnet Embedded with Black-Phosphorus-Like Bismuth Nanosheets. *ACS Applied Materials & Interfaces*, **2020**, 12, 25135-25142	9.5	11
36	Critical behavior of intercalated quasi-van der Waals ferromagnet Fe0.26TaS2. *Physical Review Materials*, **2019**, 3,	3.2	11
35	Direct imaging of an inhomogeneous electric current distribution using the trajectory of magnetic half-skyrmions. *Science Advances*, **2020**, 6, eaay1876	14.3	10
34	Understanding the Origin of Selective Reduction of CO to CO on Single-Atom Nickel Catalyst. *Journal of Physical Chemistry B*, **2020**, 124, 511-518	3.4	10
33	Mobility-Fluctuation-Controlled Linear Positive Magnetoresistance in 2D Semiconductor BiOSe Nanoplates. *ACS Nano*, **2020**, 14, 11319-11326	16.7	10
32	One-step growth of reduced graphene oxide on arbitrary substrates. *Carbon*, **2019**, 144, 457-463	10.4	10
31	Deformation of Néel-type skyrmions revealed by Lorentz transmission electron microscopy. *Applied Physics Letters*, **2020**, 116, 142402	3.4	9
30	Evolution of cellulose acetate to monolayer graphene. *Carbon*, **2021**, 174, 24-35	10.4	9
29	Chiral Helimagnetism and One-Dimensional Magnetic Solitons in a Cr-Intercalated Transition Metal Dichalcogenide. *Advanced Materials*, **2021**, 33, e2101131	24	9
28	Dynamic observation of Joule heating-induced structural and domain transformation in smart shape-memory alloy. *Acta Materialia*, **2020**, 186, 223-228	8.4	8
27	Ultraflexible and Malleable Fe/BaTiO3 Multiferroic Heterostructures for Functional Devices. *Advanced Functional Materials*, **2021**, 31, 2009376	15.6	8
26	A Coulomb explosion strategy to tailor the nano-architecture of □MoO nanobelts and an insight into its intrinsic mechanism. *Nanoscale*, **2018**, 10, 8285-8291	7.7	7
25	Effects of interfacial transition layers on the electrical properties of individual Fe30Co61Cu9/Cu multilayer nanowires. *Journal of Materials Chemistry C*, **2016**, 4, 259-265	7.1	7
24	Formation and magnetic-field stability of magnetic dipole skyrmions and bubbles in a ferrimagnet. *Applied Physics Letters*, **2020**, 116, 142404	3.4	6
23	Intensified Energy Storage in High-Voltage Nanohybrid Supercapacitors the Efficient Coupling between TiNbO/Holey-rGO Nanoarchitectures and Ionic Liquid-Based Electrolytes. *ACS Applied Materials & Interfaces*, **2021**, 13, 21349-21361	9.5	6
22	Gumdrop-cake-like CuNi/C nanofibers with tunable microstructure for microwave absorbing application. *Ceramics International*, **2020**, 46, 11406-11415	5.1	5
21	Thermally induced shape modification of free-standing nanostructures for advanced functionalities. *Scientific Reports*, **2013**, 3, 2429	4.9	5
20	Synergetic Contributions in Phase Boundary Engineering to the Piezoelectricity of Potassium Sodium Niobate Lead-Free Piezoceramics. *ACS Applied Materials & Interfaces*, **2020**, 12, 39455-39467	9.5	5

19	Direct imaging of dopant sites in rare-earth element-doped permanent magnet and correlated magnetism origin. *Nanoscale*, **2019**, 11, 4385-4393	7.7	4
18	Atomic Self-reconstruction of Catalyst Dominated Growth Mechanism of Graphite Structures. *ChemCatChem*, **2020**, 12, 1316-1324	5.2	4
17	Synergistic effect of hierarchical nanopores in Co-doped cobalt oxide 3D flowers for electrochemical energy storage.. *RSC Advances*, **2020**, 10, 43825-43833	3.7	3
16	Thermally induced generation and annihilation of magnetic chiral skyrmion bubbles and achiral bubbles in MnNiGa magnets. *Applied Physics Letters*, **2020**, 116, 132402	3.4	3
15	Interfacial scattering effect on anisotropic magnetoresistance and anomalous Hall effect in Ta/Fe multilayers. *AIP Advances*, **2018**, 8, 055813	1.5	2
14	Electrodeposited CoCu/Cu meta-conductor with suppressed skin effect for next generation radio frequency electronics. *Journal of Alloys and Compounds*, **2019**, 778, 156-162	5.7	2
13	Ferroelectrics: MXene-Derived Ferroelectric Crystals (Adv. Mater. 14/2019). *Advanced Materials*, **2019**, 31, 1970102	24	1
12	Interfacial Roughness Facilitated by Dislocation and a Metal-Fuse Resistor Fabricated Using a Nanomanipulator. *ACS Applied Materials & Interfaces*, **2020**, 12, 24442-24449	9.5	1
11	Self-assembled Epitaxial Ferroelectric Oxide Nano-spring with Super-scalability.. *Advanced Materials*, **2022**, e2108419	24	1
10	Superposition of Emergent Monopole and Antimonopole in CoTb Thin Films. *Physical Review Letters*, **2021**, 127, 217201	7.4	1
9	Magnetotransport Mechanism of Individual Nanostructures Direct Magnetoresistance Measurement SEM. *ACS Applied Materials & Interfaces*, **2020**, 12, 39798-39806	9.5	1
8	Ionic Liquid Gating and Phase Transition Induced Semiconducting to Metallic Transition in LaSrMnO/BaTiO Heterostructures. *ACS Applied Materials & Interfaces*, **2020**, 12, 43257-43265	9.5	1
7	Optimization of microwave absorption properties of C/NiP microfiber composites. *Ceramics International*, **2021**, 47, 7937-7945	5.1	1
6	Multiferroic Heterostructures: Ultraflexible and Malleable Fe/BaTiO3 Multiferroic Heterostructures for Functional Devices (Adv. Funct. Mater. 16/2021). *Advanced Functional Materials*, **2021**, 31, 2170111	15.6	1
5	Cation ratio and oxygen defects for engineering the magnetic transition of monodisperse nonstoichiometric zinc ferrite nanoparticles. *Science China Materials*, **2021**, 64, 2017-2028	7.1	1
4	Interfacial Control via Reversible Ionic Motion in Battery-Like Magnetic Tunnel Junctions. *Advanced Electronic Materials*, **2021**, 7, 2100512	6.4	1
3	Quantifying the Dzyaloshinskii-Moriya Interaction Induced by the Bulk Magnetic Asymmetry.. *Physical Review Letters*, **2022**, 128, 167202	7.4	1
2	Achieving C/CuO microfiber composites with efficient microwave absorbing performance at low thickness. *Journal of Materials Science: Materials in Electronics*,1	2.1	0

1 Self-Assembled Epitaxial Ferroelectric Oxide Nanospring with Super-Scalability (Adv. Mater. 13/2022). *Advanced Materials*, **2022**, 34, 2270103 24