

Junwei Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

1,694
citations

21
h-index

39
g-index

79
ext. papers

2,338
ext. citations

10.1
avg, IF

4.69
L-index

#	Paper	IF	Citations
72	Self-assembled Epitaxial Ferroelectric Oxide Nano-spring with Super-scalability.. <i>Advanced Materials</i> , 2022 , e2108419	24	1
71	Wafer-scale single-crystal monolayer graphene grown on sapphire substrate.. <i>Nature Materials</i> , 2022 ,	27	13
70	Self-Assembled Epitaxial Ferroelectric Oxide Nanospring with Super-Scalability (Adv. Mater. 13/2022). <i>Advanced Materials</i> , 2022 , 34, 2270103	24	
69	Quantifying the Dzyaloshinskii-Moriya Interaction Induced by the Bulk Magnetic Asymmetry.. <i>Physical Review Letters</i> , 2022 , 128, 167202	7.4	1
68	Superposition of Emergent Monopole and Antimonopole in CoTb Thin Films. <i>Physical Review Letters</i> , 2021 , 127, 217201	7.4	1
67	Optimization of microwave absorption properties of C/NiP microfiber composites. <i>Ceramics International</i> , 2021 , 47, 7937-7945	5.1	1
66	Intensified Energy Storage in High-Voltage Nanohybrid Supercapacitors the Efficient Coupling between TiNbO/Holey-rGO Nanoarchitectures and Ionic Liquid-Based Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21349-21361	9.5	6
65	Multiferroic Heterostructures: Ultraflexible and Malleable Fe/BaTiO ₃ Multiferroic Heterostructures for Functional Devices (Adv. Funct. Mater. 16/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170111	15.6	1
64	Evolution of cellulose acetate to monolayer graphene. <i>Carbon</i> , 2021 , 174, 24-35	10.4	9
63	Ultraflexible and Malleable Fe/BaTiO ₃ Multiferroic Heterostructures for Functional Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2009376	15.6	8
62	Cation ratio and oxygen defects for engineering the magnetic transition of monodisperse nonstoichiometric zinc ferrite nanoparticles. <i>Science China Materials</i> , 2021 , 64, 2017-2028	7.1	1
61	Chiral Helimagnetism and One-Dimensional Magnetic Solitons in a Cr-Intercalated Transition Metal Dichalcogenide. <i>Advanced Materials</i> , 2021 , 33, e2101131	24	9
60	Interfacial Control via Reversible Ionic Motion in Battery-Like Magnetic Tunnel Junctions. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100512	6.4	1
59	Synergistic effect of hierarchical nanopores in Co-doped cobalt oxide 3D flowers for electrochemical energy storage.. <i>RSC Advances</i> , 2020 , 10, 43825-43833	3.7	3
58	Topological Hall Effect in Traditional Ferromagnet Embedded with Black-Phosphorus-Like Bismuth Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25135-25142	9.5	11
57	Carbon black-supported FMNiCo (FM = Fe, Co, and Ni) single-atom catalysts synthesized by the self-catalysis of oxygen-coordinated ferrous metal atoms. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13166-13172	13	12
56	Thermally induced generation and annihilation of magnetic chiral skyrmion bubbles and achiral bubbles in MnNiGa magnets. <i>Applied Physics Letters</i> , 2020 , 116, 132402	3.4	3

55	High Spin Hall Conductivity in Large-Area Type-II Dirac Semimetal PtTe. <i>Advanced Materials</i> , 2020 , 32, e2000513	24	61
54	Direct imaging of an inhomogeneous electric current distribution using the trajectory of magnetic half-skyrmions. <i>Science Advances</i> , 2020 , 6, eaay1876	14.3	10
53	Creating zero-field skyrmions in exchange-biased multilayers through X-ray illumination. <i>Nature Communications</i> , 2020 , 11, 949	17.4	34
52	Gumdrop-cake-like CuNi/C nanofibers with tunable microstructure for microwave absorbing application. <i>Ceramics International</i> , 2020 , 46, 11406-11415	5.1	5
51	Interfacial Roughness Facilitated by Dislocation and a Metal-Fuse Resistor Fabricated Using a Nanomanipulator. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24442-24449	9.5	1
50	Deformation of Néel-type skyrmions revealed by Lorentz transmission electron microscopy. <i>Applied Physics Letters</i> , 2020 , 116, 142402	3.4	9
49	Formation and magnetic-field stability of magnetic dipole skyrmions and bubbles in a ferrimagnet. <i>Applied Physics Letters</i> , 2020 , 116, 142404	3.4	6
48	Dynamic observation of Joule heating-induced structural and domain transformation in smart shape-memory alloy. <i>Acta Materialia</i> , 2020 , 186, 223-228	8.4	8
47	Understanding the Origin of Selective Reduction of CO to CH ₄ on Single-Atom Nickel Catalyst. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 511-518	3.4	10
46	Atomic Self-reconstruction of Catalyst Dominated Growth Mechanism of Graphite Structures. <i>ChemCatChem</i> , 2020 , 12, 1316-1324	5.2	4
45	Néel-type skyrmion in WTe/FeGeTe van der Waals heterostructure. <i>Nature Communications</i> , 2020 , 11, 3860	17.4	81
44	Magnetotransport Mechanism of Individual Nanostructures Direct Magnetoresistance Measurement SEM. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39798-39806	9.5	1
43	Synergetic Contributions in Phase Boundary Engineering to the Piezoelectricity of Potassium Sodium Niobate Lead-Free Piezoceramics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39455-39461	9.5	5
42	Ionic Liquid Gating and Phase Transition Induced Semiconducting to Metallic Transition in LaSrMnO/BaTiO Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43257-43265	9.5	1
41	Electron Beam Lithography of Magnetic Skyrmions. <i>Advanced Materials</i> , 2020 , 32, e2003003	24	14
40	Mobility-Fluctuation-Controlled Linear Positive Magnetoresistance in 2D Semiconductor BiOSe Nanoplates. <i>ACS Nano</i> , 2020 , 14, 11319-11326	16.7	10
39	Current-driven magnetization switching in a van der Waals ferromagnet FeGeTe. <i>Science Advances</i> , 2019 , 5, eaaw8904	14.3	119
38	AsP/InSe Van der Waals Tunneling Heterojunctions with Ultrahigh Reverse Rectification Ratio and High Photosensitivity. <i>Advanced Functional Materials</i> , 2019 , 29, 1900314	15.6	76

37	Crystalline-Amorphous Permalloy@Iron Oxide Core-Shell Nanoparticles Decorated on Graphene as High-Efficiency, Lightweight, and Hydrophobic Microwave Absorbents. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6374-6383	9.5	64
36	Understanding the piezoelectricity of high-performance potassium sodium niobate ceramics from diffused multi-phase coexistence and domain feature. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16803-16811	13	38
35	Gate-Tunable and Multidirection-Switchable Memristive Phenomena in a Van Der Waals Ferroelectric. <i>Advanced Materials</i> , 2019 , 31, e1901300	24	67
34	Ferroelectrics: MXene-Derived Ferroelectric Crystals (Adv. Mater. 14/2019). <i>Advanced Materials</i> , 2019 , 31, 1970102	24	1
33	Direct imaging of dopant sites in rare-earth element-doped permanent magnet and correlated magnetism origin. <i>Nanoscale</i> , 2019 , 11, 4385-4393	7.7	4
32	Synthesis of three-dimensional free-standing WSe ₂ /C hybrid nanofibers as anodes for high-capacity lithium/sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19898-19908	13	18
31	Enhancement of Dielectric Permittivity of TiCT MXene/Polymer Composites by Controlling Flake Size and Surface Termination. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27358-27362	9.5	36
30	Critical behavior of intercalated quasi-van der Waals ferromagnet Fe _{0.26} TaS ₂ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	11
29	MXene-Derived Ferroelectric Crystals. <i>Advanced Materials</i> , 2019 , 31, e1806860	24	26
28	One-step growth of reduced graphene oxide on arbitrary substrates. <i>Carbon</i> , 2019 , 144, 457-463	10.4	10
27	Electrodeposited CoCu/Cu meta-conductor with suppressed skin effect for next generation radio frequency electronics. <i>Journal of Alloys and Compounds</i> , 2019 , 778, 156-162	5.7	2
26	Multidirection Piezoelectricity in Mono- and Multilayered Hexagonal E_nSe . <i>ACS Nano</i> , 2018 , 12, 4976-4983	13.7	133
25	A Coulomb explosion strategy to tailor the nano-architecture of EMoO nanobelts and an insight into its intrinsic mechanism. <i>Nanoscale</i> , 2018 , 10, 8285-8291	7.7	7
24	Direct writing of room temperature and zero field skyrmion lattices by a scanning local magnetic field. <i>Applied Physics Letters</i> , 2018 , 112, 132405	3.4	54
23	Interfacial scattering effect on anisotropic magnetoresistance and anomalous Hall effect in Ta/Fe multilayers. <i>AIP Advances</i> , 2018 , 8, 055813	1.5	2
22	Modifying Temperature Stability of (K,Na)NbO ₃ Ceramics through Phase Boundary. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800205	6.4	21
21	Determination of chirality and density control of NBL-type skyrmions with in-plane magnetic field. <i>Communications Physics</i> , 2018 , 1,	5.4	30
20	Creation of a thermally assisted skyrmion lattice in Pt/Co/Ta multilayer films. <i>Applied Physics Letters</i> , 2018 , 113, 192403	3.4	28

19	Spin-momentum locking and spin-orbit torques in magnetic nano-heterojunctions composed of Weyl semimetal WTe. <i>Nature Communications</i> , 2018 , 9, 3990	17.4	64
18	Ferroelectric Field Effect Tuned Giant Electroresistance in LaSrMnO/BaTiO Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40328-40334	9.5	12
17	Room-Temperature Ferroelectricity in Hexagonally Layered $\text{Hn}2\text{Se}3$ Nanoflakes down to the Monolayer Limit. <i>Advanced Functional Materials</i> , 2018 , 28, 1803738	15.6	127
16	Spin Filtering in Epitaxial Spinel Films with Nanoscale Phase Separation. <i>ACS Nano</i> , 2017 , 11, 5011-5019	16.7	16
15	Direct observation of cation distributions of ideal inverse spinel CoFeO nanofibres and correlated magnetic properties. <i>Nanoscale</i> , 2017 , 9, 7493-7500	7.7	20
14	Effects of interfacial transition layers on the electrical properties of individual $\text{Fe}_{30}\text{Co}_{61}\text{Cu}_9/\text{Cu}$ multilayer nanowires. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 259-265	7.1	7
13	Electric field induced magnetic anisotropy transition from fourfold to twofold symmetry in (001) $0.68\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.32\text{PbTiO}_3/\text{Fe}_{0.86}\text{Si}_{0.14}$ epitaxial heterostructures. <i>Applied Physics Letters</i> , 2016 , 108, 152401	3.4	18
12	Phase transformation of Sn-based nanowires under electron beam irradiation. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 5389-5397	7.1	11
11	Realization of the welding of individual TiO_2 semiconductor nano-objects using a novel $1\text{D Au}_{80}\text{Sn}_{20}$ nanosolder. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11311-11317	7.1	12
10	Nanoscale characterisation and magnetic properties of $\text{Co}_{81}\text{Cu}_{19}/\text{Cu}$ multilayer nanowires. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 85-93	7.1	20
9	Co@CoO core-shell three-dimensional nano-network for high-performance electrochemical energy storage. <i>Small</i> , 2014 , 10, 2618-24	11	46
8	Bimagnetic h-Co/h-CoO nanotetrapods: preparation, nanoscale characterization, three-dimensional architecture and their magnetic properties. <i>Nanoscale</i> , 2014 , 6, 13710-8	7.7	16
7	Nanoscale characterization of $1\text{D Sn-}3.5\text{Ag}$ nanosolders and their application into nanowelding at the nanoscale. <i>Nanotechnology</i> , 2014 , 25, 425301	3.4	12
6	Recyclable $\text{Fe}_3\text{O}_4@\text{SiO}_2\text{-Ag}$ magnetic nanospheres for the rapid decolorizing of dye pollutants. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 1378-1385	11.3	39
5	Facile one-step synthesis of $\text{Ag@Fe}_3\text{O}_4$ core-shell nanospheres for reproducible SERS substrates. <i>Journal of Molecular Structure</i> , 2013 , 1046, 74-81	3.4	35
4	$\text{Fe}_3\text{O}_4/\text{graphene}$ hybrids: nanoscale characterization and their enhanced electromagnetic wave absorption in gigahertz range. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	78
3	One-pot polyol synthesis of graphene decorated with size- and density-tunable Fe_3O_4 nanoparticles for porcine pancreatic lipase immobilization. <i>Carbon</i> , 2013 , 60, 488-497	10.4	66
2	Thermally induced shape modification of free-standing nanostructures for advanced functionalities. <i>Scientific Reports</i> , 2013 , 3, 2429	4.9	5

1 Achieving C/CuO microfiber composites with efficient microwave absorbing performance at low thickness. *Journal of Materials Science: Materials in Electronics*,1

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