

Junwei Zhang

List of Publications by Year in descending order

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186209

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citing authors

#	ARTICLE	IF	CITATIONS
1	Room-Temperature Ferroelectricity in Hexagonally Layered In_2Se_3 Nanoflakes down to the Monolayer Limit. <i>Advanced Functional Materials</i> , 2018, 28, 1803738.	7.8	241
2	Current-driven magnetization switching in a van der Waals ferromagnet Fe_3GeTe_2 . <i>Science Advances</i> , 2019, 5, eaaw8904.	4.7	239
3	Multidirection Piezoelectricity in Mono- and Multilayered Hexagonal In_2Se_3 . <i>ACS Nano</i> , 2018, 12, 4976-4983.	7.3	215
4	Néel-type skyrmion in $\text{WTe}_2/\text{Fe}_3\text{GeTe}_2$ van der Waals heterostructure. <i>Nature Communications</i> , 2020, 11, 3860.	5.8	208
5	AsP/InSe Van der Waals Tunneling Heterojunctions with Ultrahigh Reverse Rectification Ratio and High Photosensitivity. <i>Advanced Functional Materials</i> , 2019, 29, 1900314.	7.8	121
6	Gate-Tunable and Multidirectional-Switchable Memristive Phenomena in a Van Der Waals Ferroelectric. <i>Advanced Materials</i> , 2019, 31, e1901300.	11.1	121
7	High Spin Hall Conductivity in Large-Area Type-II Dirac Semimetal PtTe_2 . <i>Advanced Materials</i> , 2020, 32, e2000513.	11.1	117
8	Spin-momentum locking and spin-orbit torques in magnetic nano-heterojunctions composed of Weyl semimetal WTe_2 . <i>Nature Communications</i> , 2018, 9, 3990.	5.8	105
9	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.	4.0	96
10	Wafer-scale single-crystal monolayer graphene grown on sapphire substrate. <i>Nature Materials</i> , 2022, 21, 740-747.	13.3	92
11	Fe_3O_4 -graphene hybrids: nanoscale characterization and their enhanced electromagnetic wave absorption in gigahertz range. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	87
12	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.	5.4	77
13	Direct writing of room temperature and zero field skyrmion lattices by a scanning local magnetic field. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	68
14	Enhancement of Dielectric Permittivity of $\text{Ti}_3\text{C}_2\text{T}_x$ MXene/Polymer Composites by Controlling Flake Size and Surface Termination. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27358-27362.	4.0	68
15	Creating zero-field skyrmions in exchange-biased multilayers through X-ray illumination. <i>Nature Communications</i> , 2020, 11, 949.	5.8	67
16	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.	5.2	65
17	Co_3O_4 Core-Shell Three-Dimensional Nano-Network for High-Performance Electrochemical Energy Storage. <i>Small</i> , 2014, 10, 2618-2624.	5.2	49
18	Determination of chirality and density control of Néel-type skyrmions with in-plane magnetic field. <i>Communications Physics</i> , 2018, 1, .	2.0	48

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19	Recyclable Fe ₃ O ₄ @SiO ₂ -Ag magnetic nanospheres for the rapid decolorizing of dye pollutants. Chinese Journal of Catalysis, 2013, 34, 1378-1385.	6.9	45
20	Facile one-step synthesis of Ag@Fe ₃ O ₄ core-shell nanospheres for reproducible SERS substrates. Journal of Molecular Structure, 2013, 1046, 74-81.	1.8	45
21	Direct observation of cation distributions of ideal inverse spinel CoFe ₂ O ₄ nanofibres and correlated magnetic properties. Nanoscale, 2017, 9, 7493-7500.	2.8	40
22	Chiral Helimagnetism and One-Dimensional Magnetic Solitons in a Cr-Intercalated Transition Metal Dichalcogenide. Advanced Materials, 2021, 33, e2101131.	11.1	40
23	Creation of a thermally assisted skyrmion lattice in Pt/Co/Ta multilayer films. Applied Physics Letters, 2018, 113, .	1.5	38
24	Synthesis of three-dimensional free-standing WSe ₂ /C hybrid nanofibers as anodes for high-capacity lithium/sodium ion batteries. Journal of Materials Chemistry A, 2019, 7, 19898-19908.	5.2	35
25	MXene-Derived Ferroelectric Crystals. Advanced Materials, 2019, 31, e1806860.	11.1	35
26	Electron Beam Lithography of Magnetic Skyrmions. Advanced Materials, 2020, 32, e2003003.	11.1	30
27	Ultraflexible and Malleable Fe/BaTiO ₃ Multiferroic Heterostructures for Functional Devices. Advanced Functional Materials, 2021, 31, 2009376.	7.8	30
28	Modifying Temperature Stability of (K,Na)NbO ₃ Ceramics through Phase Boundary. Advanced Electronic Materials, 2018, 4, 1800205.	2.6	29
29	Critical behavior of intercalated quasi-van der Waals ferromagnet $F_e e_{0.26} Ta_2 S_2$. Physical Review Materials, 2019, 3, 011101.	0.9	29
30	Carbon black-supported FM-N-C (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.	5.2	27
31	Quantifying the Dzyaloshinskii-Moriya Interaction Induced by the Bulk Magnetic Asymmetry. Physical Review Letters, 2022, 128, 167202.	2.9	25
32	Electric field induced magnetic anisotropy transition from fourfold to twofold symmetry in (001) 0.68Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.32PbTiO ₃ /Fe _{0.86} Si _{0.14} epitaxial heterostructures. Applied Physics Letters, 2016, 108, .	1.5	24
33	Spin Filtering in Epitaxial Spinel Films with Nanoscale Phase Separation. ACS Nano, 2017, 11, 5011-5019.	7.3	24
34	Synergetic Contributions in Phase Boundary Engineering to the Piezoelectricity of Potassium Sodium Niobate Lead-Free Piezoceramics. ACS Applied Materials & Interfaces, 2020, 12, 39455-39461.	4.0	24
35	Nanoscale characterisation and magnetic properties of Co ₈₁ Cu ₁₉ /Cu multilayer nanowires. Journal of Materials Chemistry C, 2015, 3, 85-93.	2.7	22
36	Mobility-Fluctuation-Controlled Linear Positive Magnetoresistance in 2D Semiconductor Bi ₂ O ₂ Se Nanoplates. ACS Nano, 2020, 14, 11319-11326.	7.3	22

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37	Topological Hall Effect in Traditional Ferromagnet Embedded with Black-Phosphorus-Like Bismuth Nanosheets. ACS Applied Materials & Interfaces, 2020, 12, 25135-25142.	4.0	21
38	Direct imaging of an inhomogeneous electric current distribution using the trajectory of magnetic half-skyrmions. Science Advances, 2020, 6, eaay1876.	4.7	20
39	Gumdrop-cake-like CuNi/C nanofibers with tunable microstructure for microwave absorbing application. Ceramics International, 2020, 46, 11406-11415.	2.3	20
40	Understanding the Origin of Selective Reduction of CO ₂ to CO on Single-Atom Nickel Catalyst. Journal of Physical Chemistry B, 2020, 124, 511-518.	1.2	18
41	Intensified Energy Storage in High-Voltage Nanohybrid Supercapacitors via the Efficient Coupling between TiNb ₂ O ₇ /Holey-rGO Nanoarchitectures and Ionic Liquid-Based Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 21349-21361.	4.0	18
42	Bimagnetic h-Co/h-CoO nanotetrapods: preparation, nanoscale characterization, three-dimensional architecture and their magnetic properties. Nanoscale, 2014, 6, 13710-13718.	2.8	16
43	Nanoscale characterization of 1D Sn-3.5Ag nanosolders and their application into nanowelding at the nanoscale. Nanotechnology, 2014, 25, 425301.	1.3	15
44	Ferroelectric Field Effect Tuned Giant Electroresistance in La _{0.67} Sr _{0.33} MnO ₃ /BaTiO ₃ Heterostructures. ACS Applied Materials & Interfaces, 2018, 10, 40328-40334.	4.0	15
45	Evolution of cellulose acetate to monolayer graphene. Carbon, 2021, 174, 24-35.	5.4	15
46	Realization of the welding of individual TiO ₂ semiconductor nano-objects using a novel 1D Au ₈₀ Sn ₂₀ nanosolder. Journal of Materials Chemistry C, 2015, 3, 11311-11317.	2.7	14
47	The Cation Distributions of Zn-doped Normal Spinel MgFe ₂ O ₄ Ferrite and Its Magnetic Properties. Materials, 2022, 15, 2422.	1.3	14
48	Phase transformation of Sn-based nanowires under electron beam irradiation. Journal of Materials Chemistry C, 2015, 3, 5389-5397.	2.7	13
49	Deformation of Néel-type skyrmions revealed by Lorentz transmission electron microscopy. Applied Physics Letters, 2020, 116, 142402.	1.5	13
50	One-step growth of reduced graphene oxide on arbitrary substrates. Carbon, 2019, 144, 457-463.	5.4	12
51	Direct imaging of dopant sites in rare-earth element-doped permanent magnet and correlated magnetism origin. Nanoscale, 2019, 11, 4385-4393.	2.8	11
52	Self-Assembled Epitaxial Ferroelectric Oxide Nanospring with Super-Scalability. Advanced Materials, 2022, 34, e2108419.	11.1	11
53	Thermally Induced Shape Modification of Free-standing Nanostructures for Advanced Functionalities. Scientific Reports, 2013, 3, 2429.	1.6	10
54	Superposition of Emergent Monopole and Antimonopole in CoTb Thin Films. Physical Review Letters, 2021, 127, 217201.	2.9	10

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55	A Coulomb explosion strategy to tailor the nano-architecture of MoO_3 nanobelts and an insight into its intrinsic mechanism. <i>Nanoscale</i> , 2018, 10, 8285-8291.	2.8	9
56	Dynamic observation of Joule heating-induced structural and domain transformation in smart shape-memory alloy. <i>Acta Materialia</i> , 2020, 186, 223-228.	3.8	9
57	Formation and magnetic-field stability of magnetic dipole skyrmions and bubbles in a ferrimagnet. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	9
58	Optimization of microwave absorption properties of C/NiP microfiber composites. <i>Ceramics International</i> , 2021, 47, 7937-7945.	2.3	9
59	Thermally induced generation and annihilation of magnetic chiral skyrmion bubbles and achiral bubbles in MnNiGa magnets. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	8
60	Precise Tuning of Skyrmion Density in a Controllable Manner by Ion Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 34011-34019.	4.0	8
61	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.	2.7	7
62	Atomic Self-reconstruction of Catalyst Dominated Growth Mechanism of Graphite Structures. <i>ChemCatChem</i> , 2020, 12, 1316-1324.	1.8	6
63	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.	3.5	6
64	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.	2.8	5
65	Synergistic effect of hierarchical nanopores in Co-doped cobalt oxide 3D flowers for electrochemical energy storage. <i>RSC Advances</i> , 2020, 10, 43825-43833.	1.7	5
66	The double-coating structure of C/Cu/NiP microfiber composites for enhanced microwave absorption properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 14202-14213.	1.1	4
67	Interfacial Control via Reversible Ionic Motion in Battery-Like Magnetic Tunnel Junctions. <i>Advanced Electronic Materials</i> , 2021, 7, 2100512.	2.6	3
68	Interfacial scattering effect on anisotropic magnetoresistance and anomalous Hall effect in Ta/Fe multilayers. <i>AIP Advances</i> , 2018, 8, 055813.	0.6	2
69	Ionic Liquid Gating and Phase Transition Induced Semiconducting to Metallic Transition in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3/\text{BaTiO}_3$ Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43257-43265.	4.0	2
70	Achieving C/CuO microfiber composites with efficient microwave absorbing performance at low thickness. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 25973-25986.	1.1	2
71	The design and synthesis of spinel one-dimensional multi-shelled nanostructures for Li-ion batteries. <i>Nanoscale</i> , 2022, 14, 7692-7701.	2.8	2
72	Ferroelectrics: MXene-Derived Ferroelectric Crystals (Adv. Mater. 14/2019). <i>Advanced Materials</i> , 2019, 31, 1970102.	11.1	1

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73	Magnetotransport Mechanism of Individual Nanostructures <i>via</i> Direct Magnetoresistance Measurement <i>in situ</i> SEM. ACS Applied Materials & Interfaces, 2020, 12, 39798-39806.	4.0	1
74	Interfacial Roughness Facilitated by Dislocation and a Metal-Fuse Resistor Fabricated Using a Nanomanipulator. ACS Applied Materials & Interfaces, 2020, 12, 24442-24449.	4.0	1
75	Multiferroic Heterostructures: Ultraflexible and Malleable Fe/BaTiO ₃ Multiferroic Heterostructures for Functional Devices (Adv. Funct. Mater. 16/2021). Advanced Functional Materials, 2021, 31, 2170111.	7.8	1
76	Self-Assembled Epitaxial Ferroelectric Oxide Nanospring with Super-Scalability (Adv. Mater. 13/2022). Advanced Materials, 2022, 34, .	11.1	0
77	Atomic-Scale Imaging of Dopant Sites in a Ni-Doped Ideal Normal Spinel ZnFe ₂ O ₄ Nanofiber and Its Correlated Magnetism Origin. Journal of Physical Chemistry C, 2022, 126, 7326-7336.	1.5	0