

Qiang Zhang

List of Publications by Year in descending order

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79
papers

3,318
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230014

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79
docs citations

79
times ranked

7114
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous Hall effect of facing-target sputtered ferrimagnetic Mn ₄ N epitaxial films with perpendicular magnetic anisotropy. Chinese Physics B, 2022, 31, 047305.	0.7	7
2	Angle-dependent switching in a magnetic tunnel junction containing a synthetic antiferromagnet. Applied Physics Letters, 2022, 120, .	1.5	0
3	Detecting and Forecasting Misinformation via Temporal and Geometric Propagation Patterns. Lecture Notes in Computer Science, 2021, , 455-462.	1.0	3
4	Emergence of Room Temperature Magnetotransport Anomaly in Epitaxial Pt ₃ -Fe ₄ N/MgO Heterostructures toward Noncollinear Spintronics. ACS Applied Materials & Interfaces, 2021, 13, 26639-26648.	4.0	3
5	Stability phase diagrams and tuning of magnetic skyrmionium and other states. Journal of Magnetism and Magnetic Materials, 2021, 526, 167706.	1.0	8
6	Tuning Schottky Barrier and Contact Type of Metal-Semiconductor in Ti ₃ C ₂ T ₂ /MoS ₂ (T = F, O, OH) by Strain: A First-Principles Study. Journal of Physical Chemistry C, 2021, 125, 16200-16210.	1.5	29
7	Modulation of Weyl semimetal state in half-Heusler GdPtBi enabled by hydrostatic pressure. New Journal of Physics, 2021, 23, 083041.	1.2	1
8	Imprint from ferromagnetic skyrmions in an antiferromagnet via exchange bias. Applied Physics Letters, 2021, 119, 192407.	1.5	4
9	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
10	Current-Induced Helicity Reversal of a Single Skyrmionic Bubble Chain in a Nanostructured Frustrated Magnet. Advanced Materials, 2020, 32, e1904815.	11.1	47
11	Lattice deformation in epitaxial Fe ₃ O ₄ films on MgO substrates studied by polarized Raman spectroscopy*. Chinese Physics B, 2020, 29, 083302.	0.7	1
12	Bending strain tailored exchange bias in epitaxial NiMn ₃ -Fe ₄ N bilayers. Applied Physics Letters, 2020, 117, .	1.5	12
13	Topological electronic state and anisotropic Fermi surface in half-Heusler GdPtBi. Journal of Physics Condensed Matter, 2020, 32, 355707.	0.7	5
14	Direct imaging of an inhomogeneous electric current distribution using the trajectory of magnetic half-skyrmions. Science Advances, 2020, 6, eaay1876.	4.7	20
15	Effect of surface roughness on the anomalous Hall effect in Fe thin films. Physical Review B, 2020, 101, .	1.1	12
16	Competition between Electronic and Magnonic Spin Currents in Metallic Antiferromagnets. Physical Review Applied, 2019, 12, .	1.5	6
17	Reply-Aided Detection of Misinformation via Bayesian Deep Learning. , 2019, , .		34
18	From Stances' Imbalance to Their Hierarchical Representation and Detection. , 2019, , .		14

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19	Negative differential resistance and magnetotransport in Fe ₃ O ₄ /SiO ₂ /Si heterostructures. Applied Physics Letters, 2019, 114, 242402.	1.5	6
20	Photophysical and Electroluminescence Characteristics of Polyfluorene Derivatives with Triphenylamine. Polymers, 2019, 11, 840.	2.0	5
21	Colorless-to-colorful switching electrochromic polyimides with very high contrast ratio. Nature Communications, 2019, 10, 1239.	5.8	109
22	Weak antilocalization effect and high-pressure transport properties of ScPdBi single crystal. Applied Physics Letters, 2019, 115, .	1.5	17
23	Hybrid organic-metal oxide multilayer channel transistors with high operational stability. Nature Electronics, 2019, 2, 587-595.	13.1	49
24	Manipulating the Topology of Nanoscale Skyrmion Bubbles by Spatially Geometric Confinement. ACS Nano, 2019, 13, 922-929.	7.3	43
25	Ten States of Nonvolatile Memory through Engineering Ferromagnetic Remanent Magnetization. Advanced Functional Materials, 2019, 29, 1806460.	7.8	15
26	Giant nonvolatile manipulation of magnetoresistance in magnetic tunnel junctions by electric fields via magnetoelectric coupling. Nature Communications, 2019, 10, 243.	5.8	94
27	High-flux water desalination with interfacial salt sieving effect in nanoporous carbon composite membranes. Nature Nanotechnology, 2018, 13, 345-350.	15.6	157
28	Weak antilocalization effect in exfoliated black phosphorus revealed by temperature- and angle-dependent magnetoconductivity. Journal of Physics Condensed Matter, 2018, 30, 085703.	0.7	5
29	Transmissive-to-black fast electrochromic switching from a long conjugated pendant group and a highly dispersed polymer/SWNT. Polymer Chemistry, 2018, 9, 619-626.	1.9	29
30	Creation of Single Chain of Nanoscale Skyrmion Bubbles with Record-High Temperature Stability in a Geometrically Confined Nanostripe. Nano Letters, 2018, 18, 1274-1279.	4.5	62
31	Direct writing of room temperature and zero field skyrmion lattices by a scanning local magnetic field. Applied Physics Letters, 2018, 112, .	1.5	68
32	Interfacial scattering effect on anisotropic magnetoresistance and anomalous Hall effect in Ta/Fe multilayers. AIP Advances, 2018, 8, 055813.	0.6	2
33	PicoTesla magnetic tunneling junction sensors integrated with double staged magnetic flux concentrators. Applied Physics Letters, 2018, 113, .	1.5	40
34	Temperature study of the giant spin Hall effect in the bulk limit of $\langle \mathbf{m} \cdot \mathbf{m} \rangle$. Physical Review B, 2018, 98, .	1.8	28
35	Impacts of doping on epitaxial germanium thin film quality and Si-Ge interdiffusion. Optical Materials Express, 2018, 8, 1117.	1.6	11
36	High-Mobility Two-Dimensional Electron Gas at InGaN/InN Heterointerface Grown by Molecular Beam Epitaxy. Advanced Science, 2018, 5, 1800844.	5.6	18

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37	Magnetoresistance of epitaxial and polycrystalline Fe ₃ O ₄ films near Verwey transition. Applied Physics Letters, 2018, 113, .	1.5	9
38	Enzymatic Assemblies Disrupt the Membrane and Target Endoplasmic Reticulum for Selective Cancer Cell Death. Journal of the American Chemical Society, 2018, 140, 9566-9573.	6.6	174
39	Ranking-based Method for News Stance Detection. , 2018, , .		24
40	Observation of superconductivity in structure-selected Ti ₂ O ₃ thin films. NPG Asia Materials, 2018, 10, 522-532.	3.8	43
41	Spin Filtering in Epitaxial Spinel Films with Nanoscale Phase Separation. ACS Nano, 2017, 11, 5011-5019.	7.3	24
42	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
43	Interfacial scattering effect on anomalous Hall effect in Ni/Au multilayers. Journal Physics D: Applied Physics, 2017, 50, 235002.	1.3	7
44	Observation of Various and Spontaneous Magnetic Skyrmionic Bubbles at Room Temperature in a Frustrated Kagome Magnet with Uniaxial Magnetic Anisotropy. Advanced Materials, 2017, 29, 1701144.	11.1	189
45	Modulation of Doped In ₂ O ₃ /ZnO Heterojunction Transistors Processed from Solution. Advanced Materials, 2017, 29, 1605837.	11.1	96
46	Temperature dependence of spin-orbit torques in Cu-Au alloys. Physical Review B, 2017, 95, .	1.1	39
47	Bottom-up nanoarchitectures of semiconductor nano-building blocks obtained via a controllable in situ SEM-FIB thermal soldering method. Journal of Materials Chemistry C, 2017, 5, 8707-8713.	2.7	4
48	Skew scattering dominated anomalous Hall effect in Co _x (MgO) _{100-x} granular thin films. Journal of Physics Condensed Matter, 2017, 29, 415802.	0.7	5
49	Reconfigurable Magnetic Logic Combined with Nonvolatile Memory Writing. Advanced Materials, 2017, 29, 1605027.	11.1	35
50	Anisotropic magnetoresistance across Verwey transition in charge ordered Fe ₃ O ₄ epitaxial films. Physical Review B, 2017, 96, .	1.1	22
51	Evidence for topological type-II Weyl semimetal WTe ₂ . Nature Communications, 2017, 8, 2150.	5.8	263
52	Analysis of Amorphous-to-crystalline Germanium Stack with Cs-corrected Analytical STEM. Microscopy and Microanalysis, 2017, 23, 1514-1515.	0.2	0
53	Ultrathin Epitaxial Ferromagnetic Fe ₃ O ₄ Layer as High Efficiency Spin Filtering Materials for Spintronics Device Based on Semiconductors. Advanced Functional Materials, 2016, 26, 5679-5689.	7.8	24
54	Nanoscale Chemical and Valence Evolution at the Metal/Oxide Interface: A Case Study of Ti/SrTiO ₃ . Advanced Materials Interfaces, 2016, 3, 1600201.	1.9	25

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55	CO Poisoning Effects on FeNC and CN _x ORR Catalysts: A Combined Experimental–Computational Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15173-15184.	1.5	57
56	Strain engineering in monolayer WS ₂ , MoS ₂ , and the WS ₂ /MoS ₂ heterostructure. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	132
57	Hybrid complementary circuits based on <i>p</i> -channel organic and <i>n</i> -channel metal oxide transistors with balanced carrier mobilities of up to 10 ⁴ cm ² /Vs. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	24
58	Solvothermal synthesis of mesoporous magnetite nanoparticles for Cr(IV) ions uptake and microwave absorption. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	2
59	Mobility controlled linear magnetoresistance with 3D anisotropy in a layered graphene pallet. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 425005.	1.3	0
60	Hydrogen-terminated mesoporous silicon monoliths with huge surface area as alternative Si-based visible light-active photocatalysts. <i>RSC Advances</i> , 2016, 6, 71092-71099.	1.7	6
61	Anomalous Hall effect in Fe/Au multilayers. <i>Physical Review B</i> , 2016, 94, .	1.1	26
62	Spatial mobility fluctuation induced giant linear magnetoresistance in multilayered graphene foam. <i>Physical Review B</i> , 2016, 94, .	1.1	19
63	Effects of interfacial transition layers on the electrical properties of individual Fe ₃₀ Co ₆₁ Cu ₉ /Cu multilayer nanowires. <i>Journal of Materials Chemistry C</i> , 2016, 4, 259-265.	2.7	7
64	The Impact of Grain Alignment of the Electron Transporting Layer on the Performance of Inverted Bulk Heterojunction Solar Cells. <i>Small</i> , 2015, 11, 5272-5279.	5.2	6
65	Enzymatic Dissolution of Biocomposite Solids Consisting of Phosphopeptides to Form Supramolecular Hydrogels. <i>Chemistry - A European Journal</i> , 2015, 21, 18047-18051.	1.7	10
66	Fabrication and characterization of nanostructured Fe ₃ S ₄ , an isostructural compound of half-metallic Fe ₃ O ₄ . <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	16
67	Perpendicular magnetic anisotropy in Ta Co ₄₀ Fe ₄₀ B ₂₀ MgAl ₂ O ₄ structures and perpendicular CoFeB MgAl ₂ O ₄ CoFeB magnetic tunnel junction. <i>Applied Physics Letters</i> , 2014, 105, 102407.	1.5	19
68	Polarized Raman study on the lattice structure of BiFeO ₃ films prepared by pulsed laser deposition. <i>Vibrational Spectroscopy</i> , 2014, 75, 101-106.	1.2	0
69	Recent advances in electrochromic polymers. <i>Polymer</i> , 2014, 55, 5293-5304.	1.8	85
70	Ultrafast Carrier Trapping of a Metal-Doped Titanium Dioxide Semiconductor Revealed by Femtosecond Transient Absorption Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10022-10027.	4.0	32
71	Transmission spectra study of sulfate substituted potassium dihydrogen phosphate. <i>Laser Physics Letters</i> , 2013, 10, 066001.	0.6	1
72	Effects of surface and interface scattering on anomalous Hall effect in Co/Pd multilayers. <i>Physical Review B</i> , 2012, 86, .	1.1	68

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73	Doping Monolayer Graphene with Single Atom Substitutions. Nano Letters, 2012, 12, 141-144.	4.5	533
74	The influence of metal interlayers on the structural and optical properties of nano-crystalline TiO ₂ films. Applied Surface Science, 2012, 258, 4532-4537.	3.1	31
75	Novel porous carbon materials with ultrahigh nitrogen contents for selective CO ₂ capture. Journal of Materials Chemistry, 2012, 22, 19726.	6.7	171
76	Vertically aligned carbon nanotube field-effect transistors. Carbon, 2012, 50, 4628-4632.	5.4	12
77	Anomalous Hall effect in polycrystalline Ni films. Solid State Communications, 2012, 152, 220-224.	0.9	21
78	Ferromagnetism in Reactive Sputtered Cu _{0.96} Fe _{0.04} O _{1-δ} Nanocrystalline Films Evidenced by Anomalous Hall Effect. Applied Physics Express, 2011, 4, 043001.	1.1	6
79	Tunable magnetic and electrical properties of polycrystalline and epitaxial Ni _x Fe _{3-x} O ₄ thin films prepared by reactive co-sputtering. Journal Physics D: Applied Physics, 2010, 43, 385001.	1.3	29