

Qingfeng Zhan

List of Publications by Year in descending order

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83
papers

1,724
citations

279798

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83
docs citations

83
times ranked

2274
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant magnetoresistance and topological Hall effect in the EuGa_4 antiferromagnet. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 034005.	1.8	14
2	Z-scheme 0D/3D p-Ag ₆ Si ₂ O ₇ nanoparticles-decorated n-Bi ₂ O ₂ CO ₃ micro-flowers heterojunction photocatalyst for efficient degradation of organic contaminants. <i>Journal of Alloys and Compounds</i> , 2022, 899, 163150.	5.5	15
3	Facile synthesis of Bi_2O_3 particles/rod-like Bi_4O_7 composite with enhanced visible light-driven photocatalytic performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 4681-4693.	2.2	4
4	Spin order and fluctuations in the EuAl_4 and EuGa_4 topological antiferromagnets: A	3.2	25
5	Recent developments on the magnetic and electrical transport properties of FeRh- and Rh-based heterostructures. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 144004.	1.8	2
6	Antiferromagnetic cubic anisotropy governed exchange bias in CoFeB/IrMn bilayers. <i>Physical Review B</i> , 2022, 105, .	3.2	10
7	Magnetocrystalline anisotropy of epitaxially grown FeRh/MgO(001) films. <i>Journal of Alloys and Compounds</i> , 2022, 917, 165566.	5.5	1
8	Carbon quantum dot (CQD)-modified Bi ₃ O ₄ Br nanosheets possessing excellent photocatalytic activity under simulated sunlight. <i>Materials Science in Semiconductor Processing</i> , 2021, 122, 105489.	4.0	26
9	Tunable high-frequency properties of flexible FeGa films with rotatable stripe domain. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 519, 167510.	2.3	10
10	Anisotropic coercivity and the effects of interlayer exchange coupling in CoFeB/FeRh bilayers. <i>Physical Review B</i> , 2021, 103, .	3.2	8
11	Spin-orbit torque and Dzyaloshinskii-Moriya interaction in $4d$ metal Rh-based magnetic heterostructures. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	6
12	Z-scheme Bi ₂ MoO ₆ nanoplate-decorated flower-like Bi ₁₂ SiO ₂₀ for efficient photocatalytic degradation of organic pollutants. <i>Journal of Materials Science</i> , 2021, 56, 15241-15257.	3.7	8
13	Stretching-Tunable High-Frequency Magnetic Properties of Wrinkled CoFeB Films Grown on PDMS. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29975-29983.	8.0	11
14	Electric control of magnetic properties in epitaxially grown FeRh/MgO/PMN-PT heterostructures. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159220.	5.5	5
15	Crystal stabilities and electronic properties of thorium silicide under ambient conditions and high pressures from a first-principles study. <i>Computational Materials Science</i> , 2021, 197, 110561.	3.0	2
16	Nonvolatile modulation of spin transport in PMN-PT/LiFe ₅ O ₈ /Pt multiferroic heterostructures. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	1
17	Fabrication of ultrathin-MoS ₂ /Ag/AgBr composite with enhanced photocatalytic activity. <i>Journal of Materials Science</i> , 2020, 55, 2166-2175.	3.7	10
18	Surface morphology and magnetic anisotropy of zigzag wrinkled NiFe films grown on polydimethylsiloxane. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 497, 165911.	2.3	9

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19	Interface engineered fabrication of Bi ₄ O ₇ /BiOCl 1D/2D p-n heterojunction for enhanced visible light driven photocatalysis. <i>Optical Materials</i> , 2020, 109, 110174.	3.6	17
20	Magnetocrystalline anisotropy imprinting of an antiferromagnet on an amorphous ferromagnet in FeRh/CoFeB heterostructures. <i>NPG Asia Materials</i> , 2020, 12, .	7.9	18
21	Surface morphology and exchange bias of wrinkled NiFe/IrMn bilayers grown on polydimethylsiloxane. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 513, 167126.	2.3	7
22	The solvothermal synthesis of novel $\hat{\Gamma}^2$ -Bi ₂ O ₃ /(BiO) ₄ (OH) ₂ CO ₃ heterojunctions and its photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 4050-4057.	2.2	4
23	Enhancing the photocatalytic performance of Bi ₁₂ SiO ₂₀ by in situ grown Bi ₂ O ₂ CO ₃ and Bi through two-step light irradiation method. <i>Applied Surface Science</i> , 2020, 520, 146355.	6.1	23
24	Spin-Hall magnetoresistance in Ta/Cr/YIG trilayers with different Cr thicknesses. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 512, 167042.	2.3	4
25	Magnetoelastic coupling effect of Fe ₁₀ Co ₉₀ films grown on different flexible substrates. <i>Chinese Physics B</i> , 2020, 29, 117501.	1.4	1
26	Facile synthesis of sodium bismuthate dihydrate and its efficient visible-light photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 10543-10549.	2.2	6
27	Interface bonding engineering of a transparent conductive electrode towards highly efficient and mechanically flexible ITO-free organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11460-11467.	10.3	39
28	Tuning non-Gilbert-type damping in FeGa films on MgO(001) via oblique deposition. <i>New Journal of Physics</i> , 2019, 21, 123001.	2.9	8
29	Synthesis and characterization of Cu ₂ CoSnS ₄ thin films prepared via radio-frequency (RF) magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 2285-2291.	2.2	12
30	Stretchable spin valve with strain-engineered wrinkles grown on elastomeric polydimethylsiloxane. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 095003.	2.8	14
31	Direct imaging of cross-sectional magnetization reversal in an exchange-biased CoFeB/IrMn bilayer. <i>Physical Review B</i> , 2018, 97, .	3.2	11
32	Hydrothermal synthesis of Nd ³⁺ -doped heterojunction ms/tz-BiVO ₄ and its enhanced photocatalytic performance. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 117, 28-35.	4.0	23
33	Electric field control of magnetic properties in FeRh/PMN-PT heterostructures. <i>AIP Advances</i> , 2018, 8, .	1.3	19
34	Synthesis of $\hat{\Gamma}^2$ -Bi ₂ O ₃ /Bi ₂ MoO ₆ composites with enhanced photocatalytic activity by hydrothermal method. <i>Materials Research Bulletin</i> , 2018, 103, 47-54.	5.2	28
35	Manipulate the magnetic anisotropy of nanoparticle assemblies in arrays. <i>Journal of Colloid and Interface Science</i> , 2017, 497, 14-22.	9.4	12
36	Highly flexible resistive switching memory based on amorphous-nanocrystalline hafnium oxide films. <i>Nanoscale</i> , 2017, 9, 7037-7046.	5.6	109

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37	Rapid detection of Escherichia coli O157:H7 using tunneling magnetoresistance biosensor. AIP Advances, 2017, 7, .	1.3	21
38	Effect of epitaxial strain and lattice mismatch on magnetic and transport behaviors in metamagnetic FeRh thin films. AIP Advances, 2017, 7, .	1.3	24
39	Enhanced stress-invariance of magnetization direction in magnetic thin films. Applied Physics Letters, 2017, 111, .	3.3	22
40	Determination of stress-coefficient of magnetoelastic anisotropy in flexible amorphous CoFeB film by anisotropic magnetoresistance. Applied Physics Letters, 2017, 111, .	3.3	19
41	High-throughput investigation of orientations effect on nanoscale magnetization reversal in cobalt ferrite thin films induced by electric field. Applied Physics Letters, 2017, 111, 162401.	3.3	9
42	Magnetic anisotropy and high-frequency property of flexible FeCoTa films obliquely deposited on a wrinkled topography. Scientific Reports, 2017, 7, 2837.	3.3	23
43	Effect of NiO inserted layer on spin-Hall magnetoresistance in Pt/NiO/YIG heterostructures. Applied Physics Letters, 2016, 109, .	3.3	55
44	Magnetostrictive GMR spin valves with composite FeGa/FeCo free layers. AIP Advances, 2016, 6, .	1.3	22
45	Effect of IrMn inserted layer on anomalous-Hall resistance and spin-Hall magnetoresistance in Pt/IrMn/YIG heterostructures. Journal of Applied Physics, 2016, 120, .	2.5	6
46	Tuning magnetic anisotropy of amorphous CoFeB film by depositing on convex flexible substrates. AIP Advances, 2016, 6, .	1.3	21
47	Surface morphology and magnetic property of wrinkled FeGa thin films fabricated on elastic polydimethylsiloxane. Applied Physics Letters, 2016, 108, .	3.3	26
48	Stochastic domain wall depinning in permalloy nanowires with various types of notches. AIP Advances, 2016, 6, .	1.3	3
49	Stretchable Spin Valve with Stable Magnetic Field Sensitivity by Ribbon-Patterned Periodic Wrinkles. ACS Nano, 2016, 10, 4403-4409.	14.6	57
50	Depinning of domain walls in permalloy nanowires with asymmetric notches. Scientific Reports, 2016, 6, 32617.	3.3	17
51	Effect of thermal deformation on giant magnetoresistance of flexible spin valves grown on polyvinylidene fluoride membranes. Chinese Physics B, 2016, 25, 077307.	1.4	2
52	Influence of Thermal Deformation on Exchange Bias in FeGa/IrMn Bilayers Grown on Flexible Polyvinylidene Fluoride Membranes. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	4
53	Anisotropic field-induced melting of orbital ordered structure in Pr _{0.6} Ca _{0.4} MnO ₃ . Physical Review B, 2015, 91, .	3.2	7
54	Magnetization reversal in epitaxial exchange-biased IrMn/FeGa bilayers with anisotropy geometries controlled by oblique deposition. Physical Review B, 2015, 91, .	3.2	19

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55	Extraordinary Hall resistance and unconventional magnetoresistance in $\text{Pt}/\text{MnO}_2/\text{Pt}$ heterostructure. Physical Review B, 2015, 92, .		
56	Pure spin-Hall magnetoresistance in Rh/Y3Fe5O12 hybrid. Scientific Reports, 2015, 5, 17734.	3.3	25
57	Strain assisted electrocaloric effect in $\text{PbZr}_{0.95}\text{Ti}_{0.05}\text{O}_3$ films on $0.7\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - 0.3PbTiO_3 substrate. Scientific Reports, 2015, 5, 16164.	3.3	9
58	Static and high frequency magnetic properties of FeGa thin films deposited on convex flexible substrates. Applied Physics Letters, 2015, 106, .	3.3	52
59	Modulation of Magnetic Anisotropy in Flexible Multiferroic FeGa/PVDF Heterostructures Under Various Strains. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	1
60	Thermally assisted electric field control of magnetism in flexible multiferroic heterostructures. Scientific Reports, 2015, 4, 6925.	3.3	12
61	Ferroelectric control of magnetism in $\text{P}(\text{VDF}/\text{TrFE})/\text{Co}$ heterostructure. Journal of Materials Science: Materials in Electronics, 2015, 26, 7502-7506.	2.2	9
62	Magnetic Anisotropy and Reversal in Epitaxial FeGa/MgO(001) Films Deposited at Oblique Incidence. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
63	Unusual anisotropic magnetoresistance in charge-orbital ordered $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ polycrystals. Journal of Applied Physics, 2014, 116, .	2.5	4
64	Electric-field control of magnetic anisotropy in $\text{Fe}_{81}\text{Ga}_{19}/\text{BaTiO}_3$ heterostructure films. AIP Advances, 2014, 4, 117113.	1.3	14
65	Tunneling magnetoresistance induced by controllable formation of Co filaments in resistive switching $\text{Co}/\text{ZnO}/\text{Fe}$ structures. Europhysics Letters, 2014, 108, 58004.	2.0	20
66	Anomalous anisotropic magnetoresistance effects in graphene. AIP Advances, 2014, 4, 097101.	1.3	6
67	Magneto-mechanical coupling effect in amorphous $\text{Co}_{40}\text{Fe}_{40}\text{B}_{20}$ films grown on flexible substrates. Applied Physics Letters, 2014, 105, .	3.3	60
68	Experimental realization of two-dimensional artificial skyrmion crystals at room temperature. Physical Review B, 2014, 90, .	3.2	89
69	Multiferroic $\text{CoFe}_2\text{O}_4/\text{BiFeO}_3$ core-shell nanofibers and their nanoscale magnetoelectric coupling. Journal of Materials Research, 2014, 29, 657-664.	2.6	37
70	Positive temperature coefficient of magnetic anisotropy in polyvinylidene fluoride (PVDF)-based magnetic composites. Scientific Reports, 2014, 4, 6615.	3.3	34
71	Anisotropic magnetoresistance in epitaxial $\text{La}_{0.67}(\text{Ca}_{1-x}\text{Sr}_x)_{0.33}\text{MnO}_3$ films. Journal of Applied Physics, 2013, 113, 17C722.	2.5	7
72	Controllable strain-induced uniaxial anisotropy of $\text{Fe}_{81}\text{Ga}_{19}$ films deposited on flexible bowed-substrates. Journal of Applied Physics, 2013, 114, .	2.5	39

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73	Charge disproportionation induced exchange bias in La _{0.5} Ca _{0.5} FeO ₃ - δ . Science China: Physics, Mechanics and Astronomy, 2013, 56, 2085-2089.	5.1	1
74	Effect of mechanical strain on magnetic properties of flexible exchange biased FeGa/IrMn heterostructures. Applied Physics Letters, 2013, 102, .	3.3	36
75	Magnetic field induced polarization and magnetoelectric effect of Ba _{0.8} Ca _{0.2} TiO ₃ -Ni _{0.2} Cu _{0.3} Zn _{0.5} Fe ₂ O ₄ nanomultiferroic. Journal of Applied Physics, 2013, 113, .	2.5	37
76	Effect of buffer layer and external stress on magnetic properties of flexible FeGa films. Journal of Applied Physics, 2013, 113, .	2.5	33
77	In-plane anisotropic converse magnetoelectric coupling effect in FeGa/polyvinylidene fluoride heterostructure films. Journal of Applied Physics, 2013, 113, .	2.5	17
78	Strain induced tunable anisotropic magnetoresistance in La _{0.67} Ca _{0.33} MnO ₃ /BaTiO ₃ heterostructures. Journal of Applied Physics, 2013, 113, 17C716.	2.5	9
79	Mechanically tunable magnetic properties of Fe ₈₁ Ga ₁₉ films grown on flexible substrates. Applied Physics Letters, 2012, 100, .	3.3	93
80	Anisotropic magnetoresistance in polycrystalline La _{0.67} (Ca _{1-x} Sr _x) _{0.33} MnO ₃ . Journal Physics D: Applied Physics, 2012, 45, 245001.	2.8	17
81	Coupling of Fe and uncompensated Mn moments in exchange-biased Fe/MnPd. Physical Review B, 2010, 81, .	3.2	27
82	Structure and magnetic properties of Fe-Co nanowires in self-assembled arrays. Physical Review B, 2002, 66, .	3.2	91
83	Mössbauer study of Fe-Co nanowires. Journal of Physics Condensed Matter, 2002, 14, 613-620.	1.8	50