

Jing Shi

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

4,660
citations

94433

37
h-index

98798

67
g-index

81
all docs

81
docs citations

81
times ranked

6226
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust perpendicular magnetic anisotropy in off-axis sputtered europium iron garnet (EuIG) thin films. Journal of Magnetism and Magnetic Materials, 2022, 560, 169513.	2.3	4
2	Observation of strong excitonic magneto-chiral anisotropy in twisted bilayer van der Waals crystals. Nature Communications, 2021, 12, 2088.	12.8	7
3	Strongly heat-assisted spin-orbit torque switching of a ferrimagnetic insulator. APL Materials, 2021, 9, .	5.1	17
4	Ultrafast measurements of the interfacial spin Seebeck effect in Au and rare-earth iron-garnet bilayers. Physical Review Materials, 2021, 5, .	2.4	7
5	Interfacial thermal transport in spin caloritronic material systems. Physical Review Materials, 2021, 5, .	2.4	4
6	First- and second-order magnetic anisotropy and damping of europium iron garnet under high strain. Physical Review Materials, 2021, 5, .	2.4	11
7	Role of Magnon-Magnon Scattering in Magnon Polaron Spin Seebeck Effect. Physical Review Letters, 2021, 127, 277203.	7.8	6
8	Fe ₅ Ge ₂ Te ₂ a New Exfoliable Itinerant Ferromagnet with High Curie Temperature and Large Perpendicular Magnetic Anisotropy. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900666.	2.4	9
9	Coexistence of Magnetic Orders in Two-Dimensional Magnet CrI ₃ . Nano Letters, 2020, 20, 553-558.	9.1	74
10	Spin current generation and detection in uniaxial antiferromagnetic insulators. Applied Physics Letters, 2020, 117, 100501.	3.3	11
11	Observation of Magnon Polarons in a Uniaxial Antiferromagnetic Insulator. Physical Review Letters, 2020, 125, 217201.	7.8	35
12	Spin Seebeck effect near the antiferromagnetic spin-flop transition. Physical Review B, 2020, 102, .	3.2	28
13	How Photoinduced Gate Screening and Leakage Currents Dynamically Change the Fermi Level in 2D Materials. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000298.	2.4	3
14	Current-induced CrI ₃ surface spin-flop transition probed by proximity magnetoresistance in Pt. 2D Materials, 2020, 7, 045006.	4.4	5
15	Unveiling Valley Lifetimes of Free Charge Carriers in Monolayer WSe ₂ . Nano Letters, 2020, 20, 3147-3154.	9.1	27
16	Spin current from sub-terahertz-generated antiferromagnetic magnons. Nature, 2020, 578, 70-74.	27.8	205
17	Highly Efficient Spin-Orbit Torque and Switching of Layered Ferromagnet Fe ₃ GeTe ₂ . Nano Letters, 2019, 19, 4400-4405.	9.1	180
18	Spin Seebeck Effect from Antiferromagnetic Magnons and Critical Spin Fluctuations in Epitaxial Fe ₃ GeTe ₂ Films. Physical Review Letters, 2019, 122, 217204.	7.8	38

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19	Topological Hall effect at above room temperature in heterostructures composed of a magnetic insulator and a heavy metal. Nature Electronics, 2019, 2, 182-186.	26.0	117
20	Direct observation of proximity-induced magnetism and spin reorientation in topological insulator on a ferrimagnetic oxide. Applied Physics Letters, 2019, 114, .	3.3	8
21	Exploring interfacial exchange coupling and sublattice effect in heavy metal/ferrimagnetic insulator heterostructures using Hall measurements, x-ray magnetic circular dichroism, and neutron reflectometry. Physical Review B, 2019, 99, .	3.2	39
22	Probing Magnetism in Insulating Cr ₂ Ge ₂ Te ₆ by Induced Anomalous Hall Effect in Pt. Nano Letters, 2019, 19, 2397-2403.	9.1	81
23	Controlled Doping of Wafer-scale PtSe ₂ Films for Device Application. Advanced Functional Materials, 2019, 29, 1805614.	14.9	87
24	Interfacial Dzyaloshinskii-Moriya Interaction: Effect of d Band Filling and Correlation with Spin Mixing Conductance. Physical Review Letters, 2018, 120, 157204.	7.8	116
25	Experimental signatures of spin superfluid ground state in canted antiferromagnet Cr ₂ O ₃ via nonlocal spin transport. Science Advances, 2018, 4, eaat1098.	10.3	127
26	Spin Hall-induced auto-oscillations in ultrathin YIG grown on Pt. Scientific Reports, 2018, 8, 1269.	3.3	36
27	Approaching quantum anomalous Hall effect in proximity-coupled YIG/graphene/h-BN sandwich structure. APL Materials, 2018, 6, .	5.1	35
28	Systematic control of strain-induced perpendicular magnetic anisotropy in epitaxial europium and terbium iron garnet thin films. APL Materials, 2018, 6, .	5.1	44
29	Role of dimensional crossover on spin-orbit torque efficiency in magnetic insulator thin films. Nature Communications, 2018, 9, 3612.	12.8	84
30	Effect of Distance on Photoluminescence Quenching and Proximity-Induced Spin-Orbit Coupling in Graphene/WSe ₂ Heterostructures. Nano Letters, 2018, 18, 3580-3585.	9.1	41
31	Dirac surface state-modulated spin dynamics in a ferrimagnetic insulator at room temperature. Science Advances, 2018, 4, eaas8660.	10.3	35
32	Ferromagnetism and Charge Order from a Frozen Electron Configuration in Strained Epitaxial LaCoO ₃ . Physical Review Letters, 2018, 120, 197201.	7.8	26
33	Pressure-induced spin reorientation transition in layered ferromagnetic insulator Cr ₂ Te ₃ . Physical Review Materials, 2018, 2, .	22.4	67
34	Efficient Excitation of High-Frequency Exchange-Dominated Spin Waves in Periodic Ferromagnetic Structures. Physical Review Applied, 2017, 7, .	3.8	22
35	Observation of inverse Edelstein effect in Rashba-split 2DEG between SrTiO ₃ and LaAlO ₃ at room temperature. Science Advances, 2017, 3, e1602312.	10.3	132
36	Effect of intervalley interaction on band topology of commensurate graphene/EuO heterostructures. Physical Review B, 2017, 95, .	3.2	26

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37	Direct observation of magnon-phonon coupling in yttrium iron garnet. <i>Physical Review B</i> , 2017, 96, .	3.2	61
38	Strong electron-hole symmetric Rashba spin-orbit coupling in graphene/monolayer transition metal dichalcogenide heterostructures. <i>Physical Review B</i> , 2017, 96, .	3.2	101
39	Above 400-K robust perpendicular ferromagnetic phase in a topological insulator. <i>Science Advances</i> , 2017, 3, e1700307.	10.3	138
40	Deficiency of the bulk spin Hall effect model for spin-orbit torques in magnetic-insulator/heavy-metal heterostructures. <i>Physical Review B</i> , 2017, 95, .	3.2	23
41	An integrated approach to doped thin films with strain-tunable magnetic anisotropy: powder synthesis, target preparation and pulsed laser deposition of Bi:YIG. <i>Materials Research Letters</i> , 2017, 5, 41-47.	8.7	29
42	Spin-phonon coupling in antiferromagnetic nickel oxide. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	109
43	Platinum/yttrium iron garnet inverted structures for spin current transport. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	25
44	Structural and proximity-induced ferromagnetic properties of topological insulator-magnetic insulator heterostructures. <i>AIP Advances</i> , 2016, 6, .	1.3	48
45	Spin injection and inverse Edelstein effect in the surface states of topological Kondo insulator SmB ₆ . <i>Nature Communications</i> , 2016, 7, 13485.	12.8	37
46	Exquisite growth control and magnetic properties of yttrium iron garnet thin films. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	55
47	Experimental Investigation of Temperature-Dependent Gilbert Damping in Permalloy Thin Films. <i>Scientific Reports</i> , 2016, 6, 22890.	3.3	120
48	Observation of magnon-mediated current drag in Pt/yttrium iron garnet/Pt(Ta) trilayers. <i>Nature Communications</i> , 2016, 7, 10858.	12.8	100
49	Contact induced spin relaxation in graphene spin valves with Al ₂ O ₃ and MgO tunnel barriers. <i>APL Materials</i> , 2016, 4, .	5.1	30
50	Tunable spin-orbit coupling and symmetry-protected edge states in graphene/WS ₂ . <i>2D Materials</i> , 2016, 3, 031012.	4.4	135
51	Experimental Demonstration of xor Operation in Graphene Magnetologic Gates at Room Temperature. <i>Physical Review Applied</i> , 2016, 5, .	3.8	58
52	Enhanced spin Seebeck effect signal due to spin-momentum locked topological surface states. <i>Nature Communications</i> , 2016, 7, 11458.	12.8	91
53	Crystal Structure Manipulation of the Exchange Bias in an Antiferromagnetic Film. <i>Scientific Reports</i> , 2016, 6, 28397.	3.3	18
54	Anomalous Hall hysteresis in $Tm_3Mg_3Sb_5$. <i>Physical Review B</i> , 2016, 94, 040401.	3.2	106

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55	Magnetic anisotropy of the single-crystalline ferromagnetic insulator CrGe_2Te_6 . Japanese Journal of Applied Physics, 2016, 55, 033001.	1.5	90
56	Proximity-Induced Ferromagnetism in Graphene Revealed by the Anomalous Hall Effect. Physical Review Letters, 2015, 114, 016603.	7.8	428
57	Ferroelectric-like SrTiO_3 surface dipoles probed by graphene. Scientific Reports, 2015, 4, 3657.	3.3	30
58	Independent Tuning of Electronic Properties and Induced Ferromagnetism in Topological Insulators with Heterostructure Approach. Nano Letters, 2015, 15, 5835-5840.	9.1	111
59	Magnetic domain-wall motion twisted by nanoscale probe-induced spin transfer. Physical Review B, 2014, 90, .	3.2	16
60	A comparative transport study of Bi_2Se_3 and $\text{Bi}_2\text{Se}_3/\text{yttrium iron garnet}$. Applied Physics Letters, 2014, 104, .	3.3	44
61	Direct comparison of graphene devices before and after transfer to different substrates. Applied Physics Letters, 2014, 104, .	3.3	9
62	Experimental Investigation of the Nature of the Magnetoresistance Effects in Pd-YIG Hybrid Structures. Physical Review Letters, 2014, 113, 037203.	7.8	74
63	Induced magneto-transport properties at palladium/yttrium iron garnet interface. Applied Physics Letters, 2013, 103, .	3.3	41
64	Magnetic tunnel junctions with Al_2O_3 tunnel barriers prepared by atomic layer deposition. Applied Physics Letters, 2013, 102, .	3.3	23
65	Surface Termination of Cleaved Bi_2Se_3 by Low Energy Ion Scattering. Physical Review Letters, 2013, 110, 156101.	3.3	24
66	Effect of carrier mobility on magnetothermoelectric transport properties of graphene. Physical Review B, 2012, 86, .	3.2	24
67	Magnetic dead layer at the interface between a Co film and the topological insulator Bi_2Se_3 . Physical Review B, 2012, 86, .	3.2	36
68	Temperature dependence of Raman-active optical phonons in Bi_2Se_3 and Sb_2Te_3 . Applied Physics Letters, 2012, 100, .	3.3	85
69	Nanospintronics Based on Magnetologic Gates. IEEE Transactions on Electron Devices, 2012, 59, 259-262.	3.0	141
70	Tuning the Fermi level in Bi_2Se_3 bulk materials and transport devices. Frontiers of Physics, 2012, 7, 160-164.	5.0	8
71	Derivative relations between electrical and thermoelectric quantum transport coefficients in graphene. Solid State Communications, 2012, 152, 469-472.	1.9	6
72	Spintronics search engines. , 2011, , .		0

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73	Room-temperature spin-dependent tunneling through molecules. Applied Physics Letters, 2011, 98, 172501.	3.3	15
74	Tuning carrier type and density in Bi ₂ Se ₃ by Ca-doping. Applied Physics Letters, 2010, 97, 042112.	3.3	81
75	Epitaxial EuO thin films on GaAs. Applied Physics Letters, 2010, 97, 112509.	3.3	49
76	Interface ferromagnetism in (110)-oriented $\text{La}_{0.7}\text{MnO}_2$. Physical Review B, 2009, 79, .	3.2	39
77	Microstructure and transport properties of ZnO:Mn diluted magnetic semiconductor thin films. Journal of Applied Physics, 2009, 105, 053708.	2.5	16
78	Electron carrier concentration dependent magnetization and transport properties in ZnO:Co diluted magnetic semiconductor thin films. Journal of Applied Physics, 2008, 104, .	2.5	32
79	High-field magnetocrystalline anisotropic resistance effect in (Ga,Mn)As. Physical Review B, 2008, 77, .	3.2	33
80	Geometry dependence of magnetization vortices in patterned submicron NiFe elements. Applied Physics Letters, 2000, 76, 2588-2590.	3.3	98