

# Jing Shi

## List of Publications by Year in descending order

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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	Proximity-Induced Ferromagnetism in Graphene Revealed by the Anomalous Hall Effect. Physical Review Letters, 2015, 114, 016603.	7.8	428
2	Spin current from sub-terahertz-generated antiferromagnetic magnons. Nature, 2020, 578, 70-74.	27.8	205
3	Highly Efficient Spin-Orbit Torque and Switching of Layered Ferromagnet $\text{Fe}_3\text{GeTe}_2$ . Nano Letters, 2019, 19, 4400-4405.	9.1	180
4	Nanospintronics Based on Magnetologic Gates. IEEE Transactions on Electron Devices, 2012, 59, 259-262.	3.0	141
5	Above 400-K robust perpendicular ferromagnetic phase in a topological insulator. Science Advances, 2017, 3, e1700307.	10.3	138
6	Tunable spin-orbit coupling and symmetry-protected edge states in graphene/WS <sub>2</sub> . 2D Materials, 2016, 3, 031012.	4.4	135
7	Observation of inverse Edelstein effect in Rashba-split 2DEG between SrTiO <sub>3</sub> and LaAlO <sub>3</sub> at room temperature. Science Advances, 2017, 3, e1602312.	10.3	132
8	Experimental signatures of spin superfluid ground state in canted antiferromagnet Cr <sub>2</sub> O <sub>3</sub> via nonlocal spin transport. Science Advances, 2018, 4, eaat1098.	10.3	127
9	Experimental Investigation of Temperature-Dependent Gilbert Damping in Permalloy Thin Films. Scientific Reports, 2016, 6, 22890.	3.3	120
10	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
11	Interfacial Dzyaloshinskii-Moriya Interaction: Effect of $\frac{d}{m}$ Band Filling and Correlation with Spin Mixing Conductance. Physical Review Letters, 2018, 120, 157204.	7.8	116
12	Independent Tuning of Electronic Properties and Induced Ferromagnetism in Topological Insulators with Heterostructure Approach. Nano Letters, 2015, 15, 5835-5840.	9.1	111
13	Spin-phonon coupling in antiferromagnetic nickel oxide. Applied Physics Letters, 2017, 111, .	3.3	109
14	Anomalous Hall hysteresis in $T^m F_3e$	3.2	106
15	Strong electron-hole symmetric Rashba spin-orbit coupling in graphene/monolayer transition metal dichalcogenide heterostructures. Physical Review B, 2017, 96, .	3.2	101
16	Observation of magnon-mediated current drag in Pt/yttrium iron garnet/Pt(Ta) trilayers. Nature Communications, 2016, 7, 10858.	12.8	100
17	Geometry dependence of magnetization vortices in patterned submicron NiFe elements. Applied Physics Letters, 2000, 76, 2588-2590.	3.3	98
18	Enhanced spin Seebeck effect signal due to spin-momentum locked topological surface states. Nature Communications, 2016, 7, 11458.	12.8	91

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19	Magnetic anisotropy of the single-crystalline ferromagnetic insulator $\text{Cr}_2\text{Ge}_2\text{Te}_6$ . Japanese Journal of Applied Physics, 2016, 55, 033001.	1.5	90
20	Controlled Doping of Wafer-Scale $\text{PtSe}_2$ Films for Device Application. Advanced Functional Materials, 2019, 29, 1805614.	14.9	87
21	Temperature dependence of Raman-active optical phonons in $\text{Bi}_2\text{Se}_3$ and $\text{Sb}_2\text{Te}_3$ . Applied Physics Letters, 2012, 100, .	3.3	85
22	Role of dimensional crossover on spin-orbit torque efficiency in magnetic insulator thin films. Nature Communications, 2018, 9, 3612.	12.8	84
23	Tuning carrier type and density in $\text{Bi}_2\text{Se}_3$ by Ca-doping. Applied Physics Letters, 2010, 97, 042112.	3.3	81
24	Probing Magnetism in Insulating $\text{Cr}_2\text{Ge}_2\text{Te}_6$ by Induced Anomalous Hall Effect in Pt. Nano Letters, 2019, 19, 2397-2403.	9.1	81
25	Experimental Investigation of the Nature of the Magnetoresistance Effects in Pd-YIG Hybrid Structures. Physical Review Letters, 2014, 113, 037203.	7.8	74
26	Coexistence of Magnetic Orders in Two-Dimensional Magnet $\text{CrI}_3$ . Nano Letters, 2020, 20, 553-558.	9.1	74
27	Pressure-induced spin reorientation transition in layered ferromagnetic insulator $\text{Cr}_2\text{Ge}_2\text{Te}_6$ . Physical Review Materials, 2018, 2, .	2.4	67
28	Direct observation of magnon-phonon coupling in yttrium iron garnet. Physical Review B, 2017, 96, .	3.2	61
29	Experimental Demonstration of xor Operation in Graphene Magnetologic Gates at Room Temperature. Physical Review Applied, 2016, 5, .	3.8	58
30	Exquisite growth control and magnetic properties of yttrium iron garnet thin films. Applied Physics Letters, 2016, 108, .	3.3	55
31	Surface Termination of Cleaved $\text{Bi}_2\text{Se}_3$ by Low Energy Ion Scattering. Physical Review Letters, 2013, 110, 156101.	3.4	52
32	Epitaxial EuO thin films on GaAs. Applied Physics Letters, 2010, 97, 112509.	3.3	49
33	Structural and proximity-induced ferromagnetic properties of topological insulator-magnetic insulator heterostructures. AIP Advances, 2016, 6, .	1.3	48
34	A comparative transport study of $\text{Bi}_2\text{Se}_3$ and $\text{Bi}_2\text{Se}_3$ /yttrium iron garnet. Applied Physics Letters, 2014, 104, .	3.3	44
35	Systematic control of strain-induced perpendicular magnetic anisotropy in epitaxial europium and terbium iron garnet thin films. APL Materials, 2018, 6, .	5.1	44
36	Induced magneto-transport properties at palladium/yttrium iron garnet interface. Applied Physics Letters, 2013, 103, .	3.3	41

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37	Effect of Distance on Photoluminescence Quenching and Proximity-Induced Spin-Orbit Coupling in Graphene/WSe <sub>2</sub> Heterostructures. Nano Letters, 2018, 18, 3580-3585.	9.1	41
38	Interface ferromagnetism in (110)-oriented La <sub>2</sub> Se <sub>3</sub> . Physical Review B, 2009, 79, .	3.2	39
39	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
40	Spin Seebeck Effect from Antiferromagnetic Magnons and Critical Spin Fluctuations in Epitaxial FeF <sub>2</sub> Films. Physical Review Letters, 2019, 122, 217204.	7.8	38
41	Spin injection and inverse Edelstein effect in the surface states of topological Kondo insulator SmB <sub>6</sub> . Nature Communications, 2016, 7, 13485.	12.8	37
42	Magnetic dead layer at the interface between a Co film and the topological insulator Bi <sub>2</sub> Se <sub>3</sub> . Physical Review B, 2012, 86, .	3.2	36
43	Spin Hall-induced auto-oscillations in ultrathin YIG grown on Pt. Scientific Reports, 2018, 8, 1269.	3.3	36
44	Approaching quantum anomalous Hall effect in proximity-coupled YIG/graphene/h-BN sandwich structure. APL Materials, 2018, 6, .	5.1	35
45	Dirac surface state-modulated spin dynamics in a ferrimagnetic insulator at room temperature. Science Advances, 2018, 4, eaas8660.	10.3	35
46	Observation of Magnon Polarons in a Uniaxial Antiferromagnetic Insulator. Physical Review Letters, 2020, 125, 217201.	7.8	35
47	High-field magnetocrystalline anisotropic resistance effect in (Ga,Mn)As. Physical Review B, 2008, 77, .	3.2	33
48	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
49	Ferroelectric-like SrTiO <sub>3</sub> surface dipoles probed by graphene. Scientific Reports, 2015, 4, 3657.	3.3	30
50	Contact induced spin relaxation in graphene spin valves with Al <sub>2</sub> O <sub>3</sub> and MgO tunnel barriers. APL Materials, 2016, 4, .	5.1	30
51	An integrated approach to doped thin films with strain-tunable magnetic anisotropy: powder synthesis, target preparation and pulsed laser deposition of Bi:YIG. Materials Research Letters, 2017, 5, 41-47.	8.7	29
52	Spin Seebeck effect near the antiferromagnetic spin-flop transition. Physical Review B, 2020, 102, .	3.2	28
53	Unveiling Valley Lifetimes of Free Charge Carriers in Monolayer WSe <sub>2</sub> . Nano Letters, 2020, 20, 3147-3154.	9.1	27
54	Effect of intervalley interaction on band topology of commensurate graphene/EuO heterostructures. Physical Review B, 2017, 95, .	3.2	26

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55	Ferromagnetism and Charge Order from a Frozen Electron Configuration in Strained Epitaxial $\text{LaCoO}_3$ Physical Review Letters, 2018, 120, 197201.	7.8	26
56	Platinum/yttrium iron garnet inverted structures for spin current transport. Applied Physics Letters, 2016, 108, .	3.3	25
57	Effect of carrier mobility on magnetothermoelectric transport properties of graphene. Physical Review B, 2012, 86, .	3.2	24
58	Magnetic tunnel junctions with Al <sub>2</sub> O <sub>3</sub> tunnel barriers prepared by atomic layer deposition. Applied Physics Letters, 2013, 102, .	3.3	23
59	Deficiency of the bulk spin Hall effect model for spin-orbit torques in magnetic-insulator/heavy-metal heterostructures. Physical Review B, 2017, 95, .	3.2	23
60	Efficient Excitation of High-Frequency Exchange-Dominated Spin Waves in Periodic Ferromagnetic Structures. Physical Review Applied, 2017, 7, .	3.8	22
61	Crystal Structure Manipulation of the Exchange Bias in an Antiferromagnetic Film. Scientific Reports, 2016, 6, 28397.	3.3	18
62	Strongly heat-assisted spin-orbit torque switching of a ferrimagnetic insulator. APL Materials, 2021, 9, .	5.1	17
63	Microstructure and transport properties of ZnO:Mn diluted magnetic semiconductor thin films. Journal of Applied Physics, 2009, 105, 053708.	2.5	16
64	Magnetic domain-wall motion twisted by nanoscale probe-induced spin transfer. Physical Review B, 2014, 90, .	3.2	16
65	Room-temperature spin-dependent tunneling through molecules. Applied Physics Letters, 2011, 98, 172501.	3.3	15
66	Spin current generation and detection in uniaxial antiferromagnetic insulators. Applied Physics Letters, 2020, 117, 100501.	3.3	11
67	First- and second-order magnetic anisotropy and damping of europium iron garnet under high strain. Physical Review Materials, 2021, 5, .	2.4	11
68	Direct comparison of graphene devices before and after transfer to different substrates. Applied Physics Letters, 2014, 104, .	3.3	9
69	Fe <sub>5</sub> Ge <sub>2</sub> Te <sub>2</sub> —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
70	Tuning the Fermi level in Bi <sub>2</sub> Se <sub>3</sub> bulk materials and transport devices. Frontiers of Physics, 2012, 7, 160-164.	5.0	8
71	Direct observation of proximity-induced magnetism and spin reorientation in topological insulator on a ferrimagnetic oxide. Applied Physics Letters, 2019, 114, .	3.3	8
72	Observation of strong excitonic magneto-chiral anisotropy in twisted bilayer van der Waals crystals. Nature Communications, 2021, 12, 2088.	12.8	7

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73	Ultrafast measurements of the interfacial spin Seebeck effect in Au and rare-earth iron-garnet bilayers. Physical Review Materials, 2021, 5, .	2.4	7
74	Derivative relations between electrical and thermoelectric quantum transport coefficients in graphene. Solid State Communications, 2012, 152, 469-472.	1.9	6
75	Role of Magnon-Magnon Scattering in Magnon Polaron Spin Seebeck Effect. Physical Review Letters, 2021, 127, 277203.	7.8	6
76	Current-induced CrI <sub>3</sub> surface spin-flop transition probed by proximity magnetoresistance in Pt. 2D Materials, 2020, 7, 045006.	4.4	5
77	Interfacial thermal transport in spin caloritronic material systems. Physical Review Materials, 2021, 5, .	2.4	4
78	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
79	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
80	Spintronics search engines. , 2011, , .		0