

Wei Han

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

5,435
citations

34
h-index

73
g-index

82
ext. papers

6,341
ext. citations

8.9
avg, IF

5.95
L-index

#	Paper	IF	Citations
75	Spin Seebeck effect in quantum magnet Pb ₂ V ₃ O ₉ . <i>Applied Physics Letters</i> , 2022 , 120, 042402	3.4	2
74	Nanomechanical probing and strain tuning of the Curie temperature in suspended Cr ₂ Ge ₂ Te ₆ -based heterostructures. <i>Npj 2D Materials and Applications</i> , 2022 , 6,	8.8	2
73	Magnetic Memory and Logic 2021 , 1553-1592		
72	Evidence for anisotropic spin-triplet Andreev reflection at the 2D van der Waals ferromagnet/superconductor interface. <i>Nature Communications</i> , 2021 , 12, 6725	17.4	2
71	Giant oscillatory Gilbert damping in superconductor/ferromagnet/superconductor junctions. <i>Science Advances</i> , 2021 , 7, eabh3686	14.3	1
70	Two-dimensional superconductivity and anisotropic transport at KTaO (111) interfaces. <i>Science</i> , 2021 , 371, 716-721	33.3	33
69	Magnetic Memory and Logic 2021 , 1-40		
68	Facet-dependent magnon-polarons in epitaxial ferrimagnetic Fe ₃ O ₄ thin films. <i>Physical Review B</i> , 2020 , 102,	3.3	5
67	Magnon-mediated spin currents in Tm ₃ Fe ₅ O ₁₂ /Pt with perpendicular magnetic anisotropy. <i>Applied Physics Letters</i> , 2020 , 117, 122412	3.4	3
66	Long-Range Magnetic Order in Oxide Quantum Wells Hosting Two-Dimensional Electron Gases. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 28775-28782	9.5	2
65	Thermal generation, manipulation and thermoelectric detection of skyrmions. <i>Nature Electronics</i> , 2020 , 3, 672-679	28.4	33
64	Superconductor-Metal Quantum Transition at the EuO/KTaO ₃ Interface. <i>Chinese Physics Letters</i> , 2020 , 37, 117401	1.8	4
63	Spin current as a probe of quantum materials. <i>Nature Materials</i> , 2020 , 19, 139-152	27	42
62	Anomalous Hall effect mechanisms in the quasi-two-dimensional van der Waals ferromagnet Fe _{0.29} TaS ₂ . <i>Physical Review B</i> , 2019 , 100,	3.3	5
61	Thermal Spin Injection and Inverse Edelstein Effect of the Two-Dimensional Electron Gas at EuO-KTaO Interfaces. <i>Nano Letters</i> , 2019 , 19, 1605-1612	11.5	16
60	Observation of Interfacial Antiferromagnetic Coupling between Magnetic Topological Insulator and Antiferromagnetic Insulator. <i>Nano Letters</i> , 2019 , 19, 2945-2952	11.5	15
59	Magnon Transport in Quasi-Two-Dimensional van der Waals Antiferromagnets. <i>Physical Review X</i> , 2019 , 9,	9.1	41

58	Interface ferromagnetism and anomalous Hall effect of CdO/ferromagnetic-insulator heterostructures. <i>Physical Review Materials</i> , 2019 , 3,	3.2	1
57	Probing Magnetism in Insulating CrGeTe by Induced Anomalous Hall Effect in Pt. <i>Nano Letters</i> , 2019 , 19, 2397-2403	11.5	44
56	Experimental signatures of spin superfluid ground state in canted antiferromagnet CrO via nonlocal spin transport. <i>Science Advances</i> , 2018 , 4, eaat1098	14.3	81
55	Role of Oxygen in Ionic Liquid Gating on Two-Dimensional CrGeTe: A Non-oxide Material. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1383-1388	9.5	14
54	Probe of spin dynamics in superconducting NbN thin films via spin pumping. <i>Physical Review B</i> , 2018 , 97,	3.3	21
53	Role of La doping for topological Hall effect in epitaxial EuO films. <i>Physical Review Materials</i> , 2018 , 2,	3.2	9
52	Pressure-induced spin reorientation transition in layered ferromagnetic insulator Cr ₂ Ge ₂ Te ₆ . <i>Physical Review Materials</i> , 2018 , 2,	3.2	46
51	High-Mobility Spin-Polarized Two-Dimensional Electron Gases at EuO/KTaO ₃ Interfaces. <i>Physical Review Letters</i> , 2018 , 121, 116803	7.4	45
50	Quantum materials for spin and charge conversion. <i>Npj Quantum Materials</i> , 2018 , 3,	5	75
49	Dirac surface state-modulated spin dynamics in a ferrimagnetic insulator at room temperature. <i>Science Advances</i> , 2018 , 4, eaas8660	14.3	26
48	Reversible Formation of 2D Electron Gas at the LaFeO ₃ /SrTiO ₃ Interface via Control of Oxygen Vacancies. <i>Advanced Materials</i> , 2017 , 29, 1604447	24	24
47	Electric field effect in multilayer Cr ₂ Ge ₂ Te ₆ : a ferromagnetic 2D material. <i>2D Materials</i> , 2017 , 4, 024009	9.9	126
46	Observation of inverse Edelstein effect in Rashba-split 2DEG between SrTiO ₃ and LaAlO ₃ at room temperature. <i>Science Advances</i> , 2017 , 3, e1602312	14.3	100
45	Positive exchange bias between permalloy and twined (101̄0̄)-Cr ₂ O ₃ films. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 422, 397-401	2.8	4
44	Observation of long phase-coherence length in epitaxial La-doped CdO thin films. <i>Physical Review B</i> , 2017 , 96,	3.3	7
43	Giant facet-dependent spin-orbit torque and spin Hall conductivity in the triangular antiferromagnet IrMn. <i>Science Advances</i> , 2016 , 2, e1600759	14.3	135
42	Enhanced spin-orbit torques by oxygen incorporation in tungsten films. <i>Nature Communications</i> , 2016 , 7, 10644	17.4	209
41	Crystal Structure Manipulation of the Exchange Bias in an Antiferromagnetic Film. <i>Scientific Reports</i> , 2016 , 6, 28397	4.9	13

40	Magnetic anisotropy of the single-crystalline ferromagnetic insulator Cr ₂ Ge ₂ Te ₆ . <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 033001	1.4	60
39	Spin injection and inverse Edelstein effect in the surface states of topological Kondo insulator SmB. <i>Nature Communications</i> , 2016 , 7, 13485	17.4	28
38	Perspectives for spintronics in 2D materials. <i>APL Materials</i> , 2016 , 4, 032401	5.7	123
37	Experimental Investigation of Temperature-Dependent Gilbert Damping in Permalloy Thin Films. <i>Scientific Reports</i> , 2016 , 6, 22890	4.9	80
36	Role of transparency of platinum/ferromagnet interfaces in determining the intrinsic magnitude of the spin Hall effect. <i>Nature Physics</i> , 2015 , 11, 496-502	16.2	360
35	Epitaxial growth and properties of La _{0.7} Sr _{0.3} MnO ₃ thin films with micrometer wide atomic terraces. <i>Applied Physics Letters</i> , 2015 , 107, 022404	3.4	14
34	Graphene spintronics. <i>Nature Nanotechnology</i> , 2014 , 9, 794-807	28.7	985
33	GIANT MAGNETO-ELECTROLUMINESCENCE FROM HYBRID SPIN-ORGANIC LIGHT EMITTING DIODES. <i>Spin</i> , 2014 , 04, 1450002	1.3	4
32	Room-temperature magnetically modulated electroluminescence from hybrid organic/inorganic spintronics devices. <i>Applied Physics Letters</i> , 2013 , 103, 042411	3.4	16
31	Suppression of ionic liquid gate-induced metallization of SrTiO ₃ (001) by oxygen. <i>Nano Letters</i> , 2013 , 13, 4675-8	11.5	75
30	Spin injection and detection in lanthanum- and niobium-doped SrTiO ₃ using the Hanle technique. <i>Nature Communications</i> , 2013 , 4, 2134	17.4	42
29	A systematic approach to interpreting Hanle spin precession data in non-local spin valves 2013 ,		1
28	Comparison of spin lifetimes in Ge characterized between three-terminal and four-terminal nonlocal Hanle measurements. <i>Semiconductor Science and Technology</i> , 2013 , 28, 015018	1.8	24
27	Integrating MBE materials with graphene to induce novel spin-based phenomena. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013 , 31, 04D105	1.3	12
26	Effect of in situ deposition of Mg adatoms on spin relaxation in graphene. <i>Physical Review B</i> , 2013 , 87,	3.3	20
25	Spin transport and relaxation in graphene. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 369-381	3.8	112
24	Magnetic moment formation in graphene detected by scattering of pure spin currents. <i>Physical Review Letters</i> , 2012 , 109, 186604	7.4	227
23	Spin relaxation in single-layer graphene with tunable mobility. <i>Nano Letters</i> , 2012 , 12, 3443-7	11.5	51

22	Electric field control of the Verwey transition and induced magnetoelectric effect in magnetite. <i>Physical Review B</i> , 2012 , 86,	3.3	22
21	Enhanced spin injection efficiency and extended spin lifetimes in graphene spin valves 2011 ,		2
20	Spin relaxation in single-layer and bilayer graphene. <i>Physical Review Letters</i> , 2011 , 107, 047207	7.4	289
19	All-conjugated poly(3-alkylthiophene) diblock copolymer-based bulk heterojunction solar cells with controlled molecular organization and nanoscale morphology. <i>Energy and Environmental Science</i> , 2011 , 4, 2894	35.4	98
18	Controlled evaporative self-assembly of hierarchically structured bottlebrush block copolymer with nanochannels. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14248		29
17	Electrical spin injection and transport in germanium. <i>Physical Review B</i> , 2011 , 84,	3.3	141
16	Tailoring interlayer exchange coupling of ferromagnetic films across MgO with Fe nanoclusters. <i>Physical Review B</i> , 2010 , 81,	3.3	15
15	Investigating the origin of Fermi level pinning in Ge Schottky junctions using epitaxially grown ultrathin MgO films. <i>Applied Physics Letters</i> , 2010 , 96, 102103	3.4	96
14	Epitaxial EuO thin films on GaAs. <i>Applied Physics Letters</i> , 2010 , 97, 112509	3.4	45
13	Oscillatory spin polarization and magneto-optical Kerr effect in Fe thin films on GaAs(001). <i>Physical Review Letters</i> , 2010 , 105, 167203	7.4	19
12	Effect of cluster formation on graphene mobility. <i>Physical Review B</i> , 2010 , 81,	3.3	120
11	Room-temperature electric-field controlled ferromagnetism in Mn _{0.05} Ge _{0.95} quantum dots. <i>ACS Nano</i> , 2010 , 4, 4948-54	16.7	32
10	Tunneling spin injection into single layer graphene. <i>Physical Review Letters</i> , 2010 , 105, 167202	7.4	378
9	Manipulation of spin transport in graphene by surface chemical doping. <i>Physical Review Letters</i> , 2010 , 104, 187201	7.4	144
8	Electrical detection of spin precession in single layer graphene spin valves with transparent contacts. <i>Applied Physics Letters</i> , 2009 , 94, 222109	3.4	122
7	Spin transport in graphite and graphene spin valves 2009 ,		7
6	Engineering of tunnel junctions for prospective spin injection in germanium. <i>Applied Physics Letters</i> , 2009 , 94, 242104	3.4	26
5	Growth of single-crystalline, atomically smooth MgO films on Ge(001) by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2009 , 312, 44-47	1.6	24

4	Electron-hole asymmetry of spin injection and transport in single-layer graphene. <i>Physical Review Letters</i> , 2009 , 102, 137205	7.4	113
3	Electronic doping and scattering by transition metals on graphene. <i>Physical Review B</i> , 2009 , 80,	3.3	218
2	Growth of atomically smooth MgO films on graphene by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2008 , 93, 183107	3.4	40
1	An Efficient Route to Graphitic Carbon-Layer-Coated Gallium Nitride Nanorods. <i>Advanced Materials</i> , 2002 , 14, 1560-1562	2.4	35