

Wei Han

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3237004/wei-han-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Graphene spintronics. <i>Nature Nanotechnology</i> , 2014 , 9, 794-807	28.7	985
74	Tunneling spin injection into single layer graphene. <i>Physical Review Letters</i> , 2010 , 105, 167202	7.4	378
73	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
72	Spin relaxation in single-layer and bilayer graphene. <i>Physical Review Letters</i> , 2011 , 107, 047207	7.4	289
71	Magnetic moment formation in graphene detected by scattering of pure spin currents. <i>Physical Review Letters</i> , 2012 , 109, 186604	7.4	227
70	Electronic doping and scattering by transition metals on graphene. <i>Physical Review B</i> , 2009 , 80,	3.3	218
69	Enhanced spin-orbit torques by oxygen incorporation in tungsten films. <i>Nature Communications</i> , 2016 , 7, 10644	17.4	209
68	Manipulation of spin transport in graphene by surface chemical doping. <i>Physical Review Letters</i> , 2010 , 104, 187201	7.4	144
67	Electrical spin injection and transport in germanium. <i>Physical Review B</i> , 2011 , 84,	3.3	141
66	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
65	Electric field effect in multilayer Cr ₂ Ge ₂ Te ₆ : a ferromagnetic 2D material. <i>2D Materials</i> , 2017 , 4, 024009	3.9	126
64	Perspectives for spintronics in 2D materials. <i>APL Materials</i> , 2016 , 4, 032401	5.7	123
63	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
62	Effect of cluster formation on graphene mobility. <i>Physical Review B</i> , 2010 , 81,	3.3	120
61	Electron-hole asymmetry of spin injection and transport in single-layer graphene. <i>Physical Review Letters</i> , 2009 , 102, 137205	7.4	113
60	Spin transport and relaxation in graphene. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 369-381	3.8	112
59	Observation of inverse Edelstein effect in Rashba-split 2DEG between SrTiO and LaAlO at room temperature. <i>Science Advances</i> , 2017 , 3, e1602312	14.3	100

58	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
57	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
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	Experimental Investigation of Temperature-Dependent Gilbert Damping in Permalloy Thin Films. <i>Scientific Reports</i> , 2016 , 6, 22890	4.9	80
54	Suppression of ionic liquid gate-induced metallization of SrTiO ₃ (001) by oxygen. <i>Nano Letters</i> , 2013 , 13, 4675-8	11.5	75
53	Quantum materials for spin and charge conversion. <i>Npj Quantum Materials</i> , 2018 , 3,	5	75
52	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
51	Spin relaxation in single-layer graphene with tunable mobility. <i>Nano Letters</i> , 2012 , 12, 3443-7	11.5	51
50	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
49	Epitaxial EuO thin films on GaAs. <i>Applied Physics Letters</i> , 2010 , 97, 112509	3.4	45
48	High-Mobility Spin-Polarized Two-Dimensional Electron Gases at EuO/KTaO ₃ Interfaces. <i>Physical Review Letters</i> , 2018 , 121, 116803	7.4	45
47	Probing Magnetism in Insulating CrGeTe by Induced Anomalous Hall Effect in Pt. <i>Nano Letters</i> , 2019 , 19, 2397-2403	11.5	44
46	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
45	Spin current as a probe of quantum materials. <i>Nature Materials</i> , 2020 , 19, 139-152	27	42
44	Magnon Transport in Quasi-Two-Dimensional van der Waals Antiferromagnets. <i>Physical Review X</i> , 2019 , 9,	9.1	41
43	Growth of atomically smooth MgO films on graphene by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2008 , 93, 183107	3.4	40
42	An Efficient Route to Graphitic Carbon-Layer-Coated Gallium Nitride Nanorods. <i>Advanced Materials</i> , 2002 , 14, 1560-1562	24	35
41	Thermal generation, manipulation and thermoelectric detection of skyrmions. <i>Nature Electronics</i> , 2020 , 3, 672-679	28.4	33

40	Two-dimensional superconductivity and anisotropic transport at KTaO (111) interfaces. <i>Science</i> , 2021 , 371, 716-721	33.3	33
39	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
38	Controlled evaporative self-assembly of hierarchically structured bottlebrush block copolymer with nanochannels. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14248		29
37	Spin injection and inverse Edelstein effect in the surface states of topological Kondo insulator SmB ₂ . <i>Nature Communications</i> , 2016 , 7, 13485	17.4	28
36	Engineering of tunnel junctions for prospective spin injection in germanium. <i>Applied Physics Letters</i> , 2009 , 94, 242104	3.4	26
35	Dirac surface state-modulated spin dynamics in a ferrimagnetic insulator at room temperature. <i>Science Advances</i> , 2018 , 4, eaas8660	14.3	26
34	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
33	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
32	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
31	Electric field control of the Verwey transition and induced magnetoelectric effect in magnetite. <i>Physical Review B</i> , 2012 , 86,	3.3	22
30	Probe of spin dynamics in superconducting NbN thin films via spin pumping. <i>Physical Review B</i> , 2018 , 97,	3.3	21
29	Effect of in situ deposition of Mg adatoms on spin relaxation in graphene. <i>Physical Review B</i> , 2013 , 87,	3.3	20
28	Oscillatory spin polarization and magneto-optical Kerr effect in Fe ₃ O ₄ thin films on GaAs(001). <i>Physical Review Letters</i> , 2010 , 105, 167203	7.4	19
27	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
26	Room-temperature magnetically modulated electroluminescence from hybrid organic/inorganic spintronics devices. <i>Applied Physics Letters</i> , 2013 , 103, 042411	3.4	16
25	Observation of Interfacial Antiferromagnetic Coupling between Magnetic Topological Insulator and Antiferromagnetic Insulator. <i>Nano Letters</i> , 2019 , 19, 2945-2952	11.5	15
24	Tailoring interlayer exchange coupling of ferromagnetic films across MgO with Fe nanoclusters. <i>Physical Review B</i> , 2010 , 81,	3.3	15
23	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

22	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
21	Crystal Structure Manipulation of the Exchange Bias in an Antiferromagnetic Film. <i>Scientific Reports</i> , 2016 , 6, 28397	4.9	13
20	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
19	Role of La doping for topological Hall effect in epitaxial EuO films. <i>Physical Review Materials</i> , 2018 , 2,	3.2	9
18	Observation of long phase-coherence length in epitaxial La-doped CdO thin films. <i>Physical Review B</i> , 2017 , 96,	3.3	7
17	Spin transport in graphite and graphene spin valves 2009 ,		7
16	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
15	Facet-dependent magnon-polarons in epitaxial ferrimagnetic Fe ₃ O ₄ thin films. <i>Physical Review B</i> , 2020 , 102,	3.3	5
14	Positive exchange bias between permalloy and twined (101̄0)-Cr ₂ O ₃ films. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 422, 397-401	2.8	4
13	GIANT MAGNETO-ELECTROLUMINESCENCE FROM HYBRID SPIN-ORGANIC LIGHT EMITTING DIODES. <i>Spin</i> , 2014 , 04, 1450002	1.3	4
12	Superconductor-Metal Quantum Transition at the EuO/KTaO ₃ Interface. <i>Chinese Physics Letters</i> , 2020 , 37, 117401	1.8	4
11	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
10	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
9	Enhanced spin injection efficiency and extended spin lifetimes in graphene spin valves 2011 ,		2
8	Spin Seebeck effect in quantum magnet Pb ₂ V ₃ O ₉ . <i>Applied Physics Letters</i> , 2022 , 120, 042402	3.4	2
7	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
6	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
5	A systematic approach to interpreting Hanle spin precession data in non-local spin valves 2013 ,		1

- 4 Interface ferromagnetism and anomalous Hall effect of CdO/ferromagnetic-insulator heterostructures. *Physical Review Materials*, **2019**, 3, 3.2 1
- 3 Giant oscillatory Gilbert damping in superconductor/ferromagnet/superconductor junctions. *Science Advances*, **2021**, 7, eabh3686 14.3 1
- 2 Magnetic Memory and Logic **2021**, 1553-1592
- 1 Magnetic Memory and Logic **2021**, 1-40