

# See-Hun Yang

## List of Publications by Year in descending order

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67  
papers

8,672  
citations

159585

30  
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110387

64  
g-index

69  
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69  
docs citations

69  
times ranked

6786  
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant Spin Hall Effect and Spin-Orbit Torques in 5d Transition Metal-Aluminum Alloys from Extrinsic Scattering. <i>Advanced Materials</i> , 2022, 34, e2109406.	21.0	10
2	Domain wall memory: Physics, materials, and devices. <i>Physics Reports</i> , 2022, 958, 1-35.	25.6	56
3	Chirality tweaks spins in tellurium. <i>Nature Materials</i> , 2022, 21, 494-495.	27.5	4
4	Setting of the magnetic structure of chiral kagome antiferromagnets by a seeded spin-orbit torque. <i>Science Advances</i> , 2022, 8, .	10.3	25
5	Increased Efficiency of Current-Induced Motion of Chiral Domain Walls by Interface Engineering. <i>Advanced Materials</i> , 2021, 33, 2007991.	21.0	13
6	Interplay between superconductivity and the Kondo effect on magnetic nanodots. <i>Applied Physics Letters</i> , 2021, 118, 152407.	3.3	3
7	Chiral spintronics. <i>Nature Reviews Physics</i> , 2021, 3, 328-343.	26.6	191
8	Determination of the spin Hall angle by the inverse spin Hall effect, device level ferromagnetic resonance, and spin torque ferromagnetic resonance: A comparison of methods. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	2
9	Roadmap of Spin-Orbit Torques. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-39.	2.1	225
10	Ionitronic manipulation of current-induced domain wall motion in synthetic antiferromagnets. <i>Nature Communications</i> , 2021, 12, 5002.	12.8	18
11	Half-integer Shapiro steps in strong ferromagnetic Josephson junctions. <i>Physical Review B</i> , 2021, 104, .	3.2	3
12	Giant oscillatory Gilbert damping in superconductor/ferromagnet/superconductor junctions. <i>Science Advances</i> , 2021, 7, eabh3686.	10.3	9
13	Resonant Enhancement of Exchange Coupling for Voltage-Controlled Magnetic Switching. <i>Physical Review Applied</i> , 2020, 14, .	3.8	2
14	Current driven chiral domain wall motions in synthetic antiferromagnets with Co/Rh/Co. <i>Journal of Applied Physics</i> , 2020, 128, 053902.	2.5	9
15	Efficient Chiral-Domain-Wall Motion Driven by Spin-Orbit Torque in Metastable Platinum Films. <i>Physical Review Applied</i> , 2020, 14, .	3.8	3
16	Spintronics on chiral objects. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	39
17	An all-electrical magnetic logic gate that harnesses chirality between domains. <i>Nature</i> , 2020, 579, 201-202.	27.8	6
18	Nonlinear Magnetization Dynamics Driven by Strong Terahertz Fields. <i>Physical Review Letters</i> , 2019, 123, 197204.	7.8	26

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19	Chiral exchange drag and chirality oscillations in synthetic antiferromagnets. <i>Nature Physics</i> , 2019, 15, 543-548.	16.7	23
20	Spin-Orbit Torque Driven One-Bit Magnetic Racetrack Devices - Memory and Neuromorphic Applications. , 2019, , .		5
21	Highly Asymmetric Chiral Domain-Wall Velocities in Y-Shaped Junctions. <i>Nano Letters</i> , 2018, 18, 1826-1830.	9.1	21
22	Chiral domain wall motion in unit-cell thick perpendicularly magnetized Heusler films prepared by chemical templating. <i>Nature Communications</i> , 2018, 9, 4653.	12.8	35
23	Exchange coupling torque in ferrimagnetic Co/Gd bilayer maximized near angular momentum compensation temperature. <i>Nature Communications</i> , 2018, 9, 4984.	12.8	78
24	Separation of enantiomers by their enantiospecific interaction with achiral magnetic substrates. <i>Science</i> , 2018, 360, 1331-1334.	12.6	283
25	Role of Micromagnetic States on Spin-Orbit Torque-Switching Schemes. <i>Nano Letters</i> , 2018, 18, 4074-4080.	9.1	4
26	Magnetization switching in ferromagnets by adsorbed chiral molecules without current or external magnetic field. <i>Nature Communications</i> , 2017, 8, 14567.	12.8	132
27	Phase-resolved detection of the spin Hall angle by optical ferromagnetic resonance in perpendicularly magnetized thin films. <i>Physical Review B</i> , 2017, 95, .	3.2	13
28	Dramatic influence of curvature of nanowire on chiral domain wall velocity. <i>Science Advances</i> , 2017, 3, e1602804.	10.3	42
29	Bias dependence of spin transfer torque in Co <sub>2</sub> MnSi Heusler alloy based magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	15
30	Novel domain wall dynamics in synthetic antiferromagnets. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 303001.	1.8	27
31	Perpendicular Exchange Bias of Co/Ni Multilayers Interfacing with Antiferromagnetic IrMn Layer. <i>Journal of the Korean Magnetics Society</i> , 2017, 27, 210-214.	0.0	0
32	Experimentally tunable chiral spin transfer torque in domain wall motion. <i>New Journal of Physics</i> , 2016, 18, 053027.	2.9	8
33	Experimental Investigation of Temperature-Dependent Gilbert Damping in Permalloy Thin Films. <i>Scientific Reports</i> , 2016, 6, 22890.	3.3	120
34	Effect of microstructures on the Gilbert damping in Co/Ni multilayers. <i>Current Applied Physics</i> , 2016, 16, 1349-1352.	2.4	0
35	Giant facet-dependent spin-orbit torque and spin Hall conductivity in the triangular antiferromagnet IrMn <sub>3</sub> . <i>Science Advances</i> , 2016, 2, e1600759.	10.3	188
36	Enhanced spin-orbit torques by oxygen incorporation in tungsten films. <i>Nature Communications</i> , 2016, 7, 10644.	12.8	266

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37	Determination of intrinsic damping of perpendicularly magnetized ultrathin films from time-resolved precessional magnetization measurements. <i>Physical Review B</i> , 2015, 92, .	3.2	54
38	Giant thermal spin-torque-assisted magnetic tunnel junction switching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6585-6590.	7.1	59
39	Highly Efficient In-Line Magnetic Domain Wall Injector. <i>Nano Letters</i> , 2015, 15, 835-841.	9.1	32
40	Domain-wall velocities of up to $750 \times 10^3 \text{ m/s}$ driven by exchange-coupling torque in synthetic antiferromagnets. <i>Nature Nanotechnology</i> , 2015, 10, 221-226.	31.5	548
41	Memory on the racetrack. <i>Nature Nanotechnology</i> , 2015, 10, 195-198.	31.5	644
42	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.	16.7	465
43	Robust sorting of chiral domain walls in a racetrack biperplexer. <i>Applied Physics Letters</i> , 2014, 105, 222404.	3.3	12
44	Chiral spin torque arising from proximity-induced magnetization. <i>Nature Communications</i> , 2014, 5, 3910.	12.8	203
45	Domain wall trajectory determined by its fractional topological edge defects. <i>Nature Physics</i> , 2013, 9, 505-511.	16.7	112
46	Enhanced interface perpendicular magnetic anisotropy in Ta CoFeB MgO using nitrogen doped Ta underlayers. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	117
47	Observation of the intrinsic Gilbert damping constant in Co/Ni multilayers independent of the stack number with perpendicular anisotropy. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	69
48	Chiral spin torque at magnetic domain walls. <i>Nature Nanotechnology</i> , 2013, 8, 527-533.	31.5	1,029
49	CoFe alloy as middle layer for strong spin dependent quantum well resonant tunneling in MgO double barrier magnetic tunnel junctions. <i>Physical Review B</i> , 2013, 87, .	3.2	30
50	Asymmetric magnetic disorder observed in thermally activated magnetization reversal of exchange-biased IrMn/CoFe films. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 325, 13-16.	2.3	7
51	Current Induced Tilting of Domain Walls in High Velocity Motion along Perpendicularly Magnetized Micron-Sized Co/Ni/Co Racetracks. <i>Applied Physics Express</i> , 2012, 5, 093006.	2.4	93
52	X-ray studies of interface Fe-oxide in annealed MgO based magnetic tunneling junctions. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2012, 185, 133-139.	1.7	19
53	The role of Mg interface layer in MgO magnetic tunnel junctions with CoFe and CoFeB electrodes. <i>AIP Advances</i> , 2012, 2, .	1.3	21
54	Negative Tunneling Magnetoresistance by Canted Magnetization in $\text{MgO}/\text{NiO}$ Tunnel Barriers. <i>Physical Review Letters</i> , 2011, 106, 167201.	7.8	28

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55	Determination of layer-resolved composition, magnetization, and electronic structure of an Fe/MgO tunnel junction by standing-wave core and valence photoemission. <i>Physical Review B</i> , 2011, 84, .	3.2	31
56	Coexistence of the Kondo effect and a ferromagnetic phase in magnetic tunnel junctions. <i>Physical Review B</i> , 2011, 83, .	3.2	19
57	Extremely long quasiparticle spin lifetimes in superconducting aluminium using MgO tunnel spin injectors. <i>Nature Materials</i> , 2010, 9, 586-593.	27.5	102
58	Increased Tunneling Magnetoresistance Using Normally bcc CoFe Alloy Electrodes Made Amorphous without Glass Forming Additives. <i>Physical Review Letters</i> , 2009, 102, 247205.	7.8	19
59	Crossover from Kondo-Assisted Suppression to Co-Tunneling Enhancement of Tunneling Magnetoresistance via Ferromagnetic Nanodots in MgO Tunnel Barriers. <i>Nano Letters</i> , 2008, 8, 340-344.	9.1	57
60	Bias Voltage Dependence of Tunneling Anisotropic Magnetoresistance in Magnetic Tunnel Junctions with MgO and $Al_2O_3$ Tunnel Barriers. <i>Physical Review Letters</i> , 2007, 99, 226602.	7.8	98
61	Optimized thickness of superconducting aluminum electrodes for measurement of spin polarization with MgO tunnel barriers. <i>Applied Physics Letters</i> , 2007, 90, 202502.	3.3	10
62	Tunneling spin polarization measurements from ferromagnet/MgO tunnel junctions using NbN superconductor. <i>Applied Physics Letters</i> , 2006, 88, 182501.	3.3	10
63	Giant tunnelling magnetoresistance at room temperature with MgO (100) tunnel barriers. <i>Nature Materials</i> , 2004, 3, 862-867.	27.5	2,820
64	Probing buried interfaces with soft x-ray standing wave spectroscopy: application to the Fe/Cr interface. <i>Journal of Physics Condensed Matter</i> , 2002, 14, L407-L420.	1.8	34
65	High-resolution $Ce3d_{5/2}$ edgeresonant photoemission study of $CeNi_2$ . <i>Physical Review B</i> , 2000, 61, R13329-R13332.	3.2	11
66	Surface and bulk $4f$ photoemission spectra of $CeIr_2$ . <i>Physical Review B</i> , 1999, 59, 12294-12297.	3.2	5
67	High-Resolution Photoemission Study of $UNi_2Al_3$ and $URu_2Si_2$ . <i>Journal of the Physical Society of Japan</i> , 1996, 65, 2685-2689.	1.6	10