

# Haiming Yu

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

2,552  
citations

257357

24  
h-index

197736

49  
g-index

78  
all docs

78  
docs citations

78  
times ranked

2052  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unidirectional spin-wave propagation and devices. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 123001.	1.3	26
2	Generation and Control of Terahertz Spin Currents in Topology-Induced 2D Ferromagnetic Fe <sub>3</sub> GeTe <sub>2</sub>   Bi <sub>2</sub> Te <sub>3</sub> Heterostructures. <i>Advanced Materials</i> , 2022, 34, e2106172.	11.1	39
3	Generation and Control of Terahertz Spin Currents in Topology-Induced 2D Ferromagnetic Fe <sub>3</sub> GeTe <sub>2</sub>   Bi <sub>2</sub> Te <sub>3</sub> Heterostructures (Adv. Mater.) Tj ETQq1 1 0.1784314 pgBT /Ov		
4	Magic-angle magnonic nanocavity in a magnetic moiré superlattice. <i>Physical Review B</i> , 2022, 105, .	1.1	11
5	Large Anomalous Nernst Angle in Co <sub>2</sub> MnGa Thin Film. <i>IEEE Magnetics Letters</i> , 2022, 13, 1-5.	0.6	1
6	Anomalous anisotropic spin-wave propagation in thin manganite films with uniaxial magnetic anisotropy. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	3
7	Chiral Emission of Exchange Spin Waves by Magnetic Skyrmions. <i>ACS Nano</i> , 2021, 15, 4372-4379.	7.3	38
8	Magnetic texture based magnonics. <i>Physics Reports</i> , 2021, 905, 1-59.	10.3	107
9	Antiferromagnetic resonance in TmFeO <sub>3</sub> at high temperatures. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 523, 167562.	1.0	4
10	Strong Coupling of Antiferromagnetic Resonance with Subterahertz Cavity Fields. <i>Physical Review Applied</i> , 2021, 15, .	1.5	15
11	Prototype Design of a Domain-Wall-Based Magnetic Memory Using a Single Layer La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> Thin Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23945-23950.	4.0	5
12	Tunable Damping in Magnetic Nanowires Induced by Chiral Pumping of Spin Waves. <i>ACS Nano</i> , 2021, 15, 9076-9083.	7.3	12
13	Electron-Phonon Interaction Enables Strong Thermoelectric Seebeck Effect Variation in Hybrid Nanoscale Systems. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13167-13175.	1.5	5
14	Polymer Micelle Directed Magnetic Cargo Assemblies Towards Spin-wave Manipulation. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100455.	1.9	3
15	Reconfigurable Spin-Wave Interferometer at the Nanoscale. <i>Nano Letters</i> , 2021, 21, 6237-6244.	4.5	20
16	The 2021 Magnonics Roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 413001.	0.7	287
17	Magnonics Based on Thin-Film Iron Garnets. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 081005.	0.7	15
18	Strain-Driven Dzyaloshinskii-Moriya Interaction for Room-Temperature Magnetic Skyrmions. <i>Physical Review Letters</i> , 2021, 127, 117204.	2.9	35

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19	Nonreciprocal coherent coupling of nanomagnets by exchange spin waves. Nano Research, 2021, 14, 2133-2138.	5.8	26
20	Sub-50-nm wavelength spin waves excited by low-damping Co <sub>25</sub> Fe <sub>75</sub> nanowires. Applied Physics Letters, 2021, 119, .	1.5	10
21	Strong temperature-dependent thermoelectric power of IrMn <sub>3</sub> thin films of different thicknesses. Journal Physics D: Applied Physics, 2021, 54, 01LT01.	1.3	0
22	Long decay length of magnon-polarons in BiFeO <sub>3</sub> /La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> heterostructures. Nature Communications, 2021, 12, 7258.	5.8	15
23	Anomalous Nernst effect in Co <sub>2</sub> MnGa thin films with perpendicular magnetic anisotropy. Journal of Magnetism and Magnetic Materials, 2020, 500, 166397.	1.0	15
24	Regulating the anomalous Hall and Nernst effects in Heusler-based trilayers. Applied Physics Letters, 2020, 117, .	1.5	7
25	Magnon trap by chiral spin pumping. Physical Review B, 2020, 102, .	1.1	18
26	Surface anisotropy induced spin wave nonreciprocity in epitaxial La <sub>0.33</sub> Sr <sub>0.67</sub> MnO <sub>3</sub> film on SrTiO <sub>3</sub> substrate. Applied Physics Letters, 2020, 117, .	1.5	5
27	Spin wave propagation in a ferrimagnetic thin film with perpendicular magnetic anisotropy. Applied Physics Letters, 2020, 117, .	1.5	18
28	Chiral Magnonics: Reprogrammable Nanoscale Spin Wave Networks Based on Chiral Domain Walls. IScience, 2020, 23, 101153.	1.9	13
29	Chiral Spin-Wave Velocities Induced by All-Garnet Interfacial Dzyaloshinskii-Moriya Interaction in Ultrathin Yttrium Iron Garnet Films. Physical Review Letters, 2020, 124, 027203.	2.9	80
30	Spin-Dependent Thermoelectric Transport in Cobalt-Based Heusler Alloys. Annalen Der Physik, 2020, 532, 1900456.	0.9	18
31	Record thermopower found in an IrMn-based spintronic stack. Nature Communications, 2020, 11, 2023.	5.8	16
32	Spin Wave Injection and Propagation in a Magnetic Nanochannel from a Vortex Core. Nano Letters, 2020, 20, 3140-3146.	4.5	26
33	Unconventional spin-dependent thermopower in epitaxial Co <sub>2</sub> Ti <sub>0.6</sub> V <sub>0.4</sub> Sn <sub>0.75</sub> Heusler film. Solid State Communications, 2019, 299, 113661.	0.9	3
34	Excitation of unidirectional exchange spin waves by a nanoscale magnetic grating. Physical Review B, 2019, 100, .	1.1	111
35	Large magnetothermopower and anomalous Nernst effect in $\text{HfTe}_5$ . Physical Review B, 2019, 100, .	1.1	16
36	Spin wave propagation in ultrathin magnetic insulators with perpendicular magnetic anisotropy. Applied Physics Letters, 2019, 114, .	1.5	29

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37	Current-controlled propagation of spin waves in antiparallel, coupled domains. Nature Nanotechnology, 2019, 14, 691-697.	15.6	71
38	Chiral excitation of spin waves in ferromagnetic films by magnetic nanowire gratings. Physical Review B, 2019, 99, .	1.1	42
39	Spin-dependent thermoelectric effect in Co <sub>2</sub> Fe <sub>0.4</sub> Mn <sub>0.6</sub> Si thin film with perpendicular magnetic anisotropy. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 670-673.	0.9	7
40	Doping effect on the thermoelectric transport properties of HfTe <sub>5</sub> . AIP Advances, 2019, 9, .	0.6	2
41	Temperature control of spin wave propagation over 100 $\mu$ m distance in 100 nm-thick YIG film. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 366-368.	0.9	7
42	Long-distance propagation of short-wavelength spin waves. Nature Communications, 2018, 9, 738.	5.8	181
43	Direct Observation of Domain-Wall Surface Tension by Deflating or Inflating a Magnetic Bubble. Physical Review Applied, 2018, 9, .	1.5	27
44	Skyrmions in Magnetic Tunnel Junctions. ACS Applied Materials & Interfaces, 2018, 10, 16887-16892.	4.0	68
45	Antenna design for propagating spin wave spectroscopy in ferromagnetic thin films. Journal of Magnetism and Magnetic Materials, 2018, 450, 24-28.	1.0	7
46	Spin wave propagation in perpendicularly magnetized nm-thick yttrium iron garnet films. Journal of Magnetism and Magnetic Materials, 2018, 450, 3-6.	1.0	32
47	Simulation of high k-vector spin wave excitation with periodic ferromagnetic strips. Journal of Magnetism and Magnetic Materials, 2018, 450, 29-33.	1.0	5
48	Spin wave propagation detected over $100 \mu\text{m}$ distance in half-metallic Heusler alloy Co <sub>2</sub> MnSi. Journal of Magnetism and Magnetic Materials, 2018, 450, 13-17.	1.0	6
49	Spin wave propagation in Co <sub>2</sub> TiSn and Co <sub>2</sub> TiMg. Physical Review Applied, 2018, 10, .	1.5	24
50	Strong Interlayer Magnon-Magnon Coupling in Magnetic Metal-Insulator Hybrid Nanostructures. Physical Review Letters, 2018, 120, 217202.	2.9	119
51	Bolometric detection of ferromagnetic resonance in YIG slab. Journal of Magnetism and Magnetic Materials, 2017, 439, 53-56.	1.0	3
52	Thermal spin torques in magnetic insulators. Physical Review B, 2017, 95, .	1.1	13
53	Spin caloritronics, origin and outlook. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 825-837.	0.9	84
54	Anomalous Nernst effect in Ir <sub>22</sub> Mn <sub>78</sub> /Co <sub>20</sub> Fe <sub>60</sub> B <sub>20</sub> /MgO layers with perpendicular magnetic anisotropy. Applied Physics Letters, 2017, 111, .	1.5	24

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55	Ultrabroadband spin-wave propagation in $\text{Co}/\text{MnO}_2/\text{MnO}$ thin films. Physical Review B, 2017, 96, .	11.2	13
56	Frequency modulation of spin torque nano oscillator with voltage controlled magnetic anisotropy effect. , 2017, , .		0
57	Approaching soft X-ray wavelengths in nanomagnet-based microwave technology. Nature Communications, 2016, 7, 11255.	5.8	137
58	Spin wave based synapse and neuron for ultra low power neuromorphic computation system. , 2016, , .		2
59	Short-Wavelength Spin Waves in Yttrium Iron Garnet Micro-Channels on Silicon. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	13
60	Coupling heat with magnetization. , 2015, , .		0
61	Linear response to a heat-driven spin torque. Applied Physics Letters, 2015, 106, .	1.5	7
62	Magnetic thin-film insulator with ultra-low spin wave damping for coherent nanomagnonics. Scientific Reports, 2014, 4, 6848.	1.6	189
63	Omnidirectional spin-wave nanograting coupler. Nature Communications, 2013, 4, 2702.	5.8	152
64	Reciprocal Damon-Eshbach-type spin wave excitation in a magnonic crystal due to tunable magnetic symmetry. Applied Physics Letters, 2013, 102, .	1.5	32
65	High propagating velocity of spin waves and temperature dependent damping in a CoFeB thin film. Applied Physics Letters, 2012, 100, 262412.	1.5	76
66	Temperature derivative of the resistance of spin valves. Journal of Magnetism and Magnetic Materials, 2010, 322, 1464-1466.	1.0	4
67	Heat and spin transport in magnetic nanowires. Solid State Communications, 2010, 150, 485-488.	0.9	6
68	Evidence for Thermal Spin-Transfer Torque. Physical Review Letters, 2010, 104, 146601.	2.9	114
69	Current susceptibility of magnetization in spin valves. Journal Physics D: Applied Physics, 2009, 42, 175004.	1.3	6
70	Active Ferromagnetic Metasurface with Topologically Protected Spin Texture for Spectral Filters. Advanced Functional Materials, 0, , 2203466.	7.8	4