

Luqiao Liu

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.

30
papers

6,726
citations

19
h-index

34
g-index

34
ext. papers

8,088
ext. citations

9.1
avg, IF

6.15
L-index

#	Paper	IF	Citations
30	Ising Machine Based on Electrically Coupled Spin Hall Nano-Oscillators. <i>Physical Review Applied</i> , 2022 , 17,	4.3	2
29	Current-induced switching of a ferromagnetic Weyl semimetal Co ₂ MnGa. <i>Applied Physics Letters</i> , 2021 , 119, 212409	3.4	0
28	Resonant Spin Transmission Mediated by Magnons in a Magnetic Insulator Multilayer Structure. <i>Advanced Materials</i> , 2021 , 33, e2008555	24	5
27	Topological insulators for efficient spin-orbit torques. <i>APL Materials</i> , 2021 , 9, 060901	5.7	9
26	. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-39	2	34
25	Nonreciprocal Transmission of Incoherent Magnons with Asymmetric Diffusion Length. <i>Nano Letters</i> , 2021 , 21, 7037-7043	11.5	1
24	Birefringence-like spin transport via linearly polarized antiferromagnetic magnons. <i>Nature Nanotechnology</i> , 2020 , 15, 563-568	28.7	32
23	Direct Evidence of Spin Transfer Torque on Two-Dimensional Cobalt-Doped MoS ₂ Ferromagnetic Material. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1497-1504	4	1
22	Manipulation of Coupling and Magnon Transport in Magnetic Metal-Insulator Hybrid Structures. <i>Physical Review Applied</i> , 2020 , 13,	4.3	18
21	Spintronics with compensated ferrimagnets. <i>Applied Physics Letters</i> , 2020 , 116, 110501	3.4	33
20	Variable spin-charge conversion across metal-insulator transition. <i>Nature Communications</i> , 2020 , 11, 47617.4	17.4	12
19	Magnetic Domain Wall Based Synaptic and Activation Function Generator for Neuromorphic Accelerators. <i>Nano Letters</i> , 2020 , 20, 1033-1040	11.5	42
18	Strong Coupling between Microwave Photons and Nanomagnet Magnons. <i>Physical Review Letters</i> , 2019 , 123, 107702	7.4	76
17	Large spin-orbit torque observed in epitaxial SrIrO ₃ thin films. <i>Applied Physics Letters</i> , 2019 , 114, 232406	3.4	20
16	Spin-Orbit-Torque Switching Mediated by an Antiferromagnetic Insulator. <i>Physical Review Applied</i> , 2019 , 11,	4.3	15
15	Gigahertz Frequency Antiferromagnetic Resonance and Strong Magnon-Magnon Coupling in the Layered Crystal CrCl ₃ . <i>Physical Review Letters</i> , 2019 , 123, 047204	7.4	60
14	Temperature-dependent spin Hall effect tunneling spectroscopy in platinum. <i>Applied Physics Letters</i> , 2019 , 115, 162403	3.4	7

13	Electrical manipulation of spin pumping signal through nonlocal thermal magnon transport. <i>Applied Physics Letters</i> , 2019 , 115, 172405	3-4	1
12	Mutual control of coherent spin waves and magnetic domain walls in a magnonic device. <i>Science</i> , 2019 , 366, 1121-1125	33-3	56
11	Quantitative Study on Current-Induced Effect in an Antiferromagnet Insulator/Pt Bilayer Film. <i>Physical Review Letters</i> , 2019 , 123, 247206	7-4	41
10	Spin-Orbit Torque Switching in a Nearly Compensated Heusler Ferrimagnet. <i>Advanced Materials</i> , 2019 , 31, e1805361	24	36
9	Current-Induced Domain Wall Motion in a Compensated Ferrimagnet. <i>Physical Review Letters</i> , 2018 , 121, 057701	7-4	115
8	Room-Temperature Spin-Orbit Torque Switching Induced by a Topological Insulator. <i>Physical Review Letters</i> , 2017 , 119, 077702	7-4	247
7	Spin-Orbit-Torque Efficiency in Compensated Ferrimagnetic Cobalt-Terbium Alloys. <i>Physical Review Applied</i> , 2016 , 6,	4-3	154
6	Spin-polarized tunneling study of spin-momentum locking in topological insulators. <i>Physical Review B</i> , 2015 , 91,	3-3	92
5	Magnetic oscillations driven by the spin Hall effect in 3-terminal magnetic tunnel junction devices. <i>Physical Review Letters</i> , 2012 , 109, 186602	7-4	243
4	Current-induced switching of perpendicularly magnetized magnetic layers using spin torque from the spin Hall effect. <i>Physical Review Letters</i> , 2012 , 109, 096602	7-4	1039
3	Spin-torque switching with the giant spin Hall effect of tantalum. <i>Science</i> , 2012 , 336, 555-8	33-3	2437
2	Spin transfer torque devices utilizing the giant spin Hall effect of tungsten. <i>Applied Physics Letters</i> , 2012 , 101, 122404	3-4	899
1	Spin-torque ferromagnetic resonance induced by the spin Hall effect. <i>Physical Review Letters</i> , 2011 , 106, 036601	7-4	995