

Xiang Li

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.

39
papers

1,329
citations

19
h-index

36
g-index

43
ext. papers

1,610
ext. citations

4.5
avg, IF

4.18
L-index

#	Paper	IF	Citations
39	Experimental demonstration of voltage-gated spin-orbit torque switching in an antiferromagnet/ferromagnet structure. <i>Physical Review B</i> , 2021 , 103,	3.3	4
38	Large and robust charge-to-spin conversion in sputtered conductive WTe with disorder. <i>Matter</i> , 2021 , 4, 1639-1653	12.7	4
37	Charge-spin interconversion in epitaxial Pt probed by spin-orbit torques in a magnetic insulator. <i>Physical Review Materials</i> , 2021 , 5,	3.2	4
36	Tunable spin-orbit torque efficiency in in-plane and perpendicular magnetized [Pt/Co] _n multilayer. <i>Applied Physics Letters</i> , 2021 , 118, 042405	3.4	1
35	High voltage-controlled magnetic anisotropy and interface magnetoelectric effect in sputtered multilayers annealed at high temperatures. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	3
34	Materials Requirements of High-Speed and Low-Power Spin-Orbit-Torque Magnetic Random-Access Memory. <i>IEEE Journal of the Electron Devices Society</i> , 2020 , 8, 674-680	2.3	8
33	Voltage-controlled magnetic tunnel junctions with synthetic ferromagnet free layer sandwiched by asymmetric double MgO barriers. <i>Journal Physics D: Applied Physics</i> , 2019 ,	3	2
32	Spin-orbit torque from a ferromagnetic metal. <i>Physical Review B</i> , 2019 , 99,	3.3	40
31	Colossal electric field control of magnetic anisotropy at ferromagnetic interfaces induced by iridium overlayer. <i>Physical Review B</i> , 2019 , 99,	3.3	11
30	Predictive Materials Design of Magnetic Random-Access Memory Based on Nanoscale Atomic Structure and Element Distribution. <i>Nano Letters</i> , 2019 , 19, 8621-8629	11.5	9
29	Field-Free Switching of Perpendicular Magnetization through Voltage-Gated Spin-Orbit Torque 2019 ,		15
28	Modeling and Circuit Design of Associative Memories With Spin-Orbit Torque FETs. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2019 , 5, 197-205	2.4	4
27	Voltage-Controlled Magnetic Tunnel Junctions for Processing-In-Memory Implementation. <i>IEEE Electron Device Letters</i> , 2018 , 39, 440-443	4.4	18
26	Interfacial Dzyaloshinskii-Moriya Interaction: Effect of 5d Band Filling and Correlation with Spin Mixing Conductance. <i>Physical Review Letters</i> , 2018 , 120, 157204	7.4	73
25	Interface control of domain wall depinning field. <i>AIP Advances</i> , 2018 , 8, 056314	1.5	2
24	Enhancement of Perpendicular Magnetic Anisotropy Through Fe Insertion at the CoFe/W Interface. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	5
23	Voltage-controlled magnetoelectric memory and logic devices. <i>MRS Bulletin</i> , 2018 , 43, 970-977	3.2	27

22	Spin-Torque Ferromagnetic Resonance in W/CoFeB/W/CoFeB/MgO Stacks. <i>Physical Review Applied</i> , 2018 , 10,	4.3	15
21	Enhancement of voltage-controlled magnetic anisotropy through precise control of Mg insertion thickness at CoFeB/MgO interface. <i>Applied Physics Letters</i> , 2017 , 110, 052401	3.4	64
20	Perpendicular magnetic tunnel junction with W seed and capping layers. <i>Journal of Applied Physics</i> , 2017 , 121, 153902	2.5	17
19	Write Error Rate and Read Disturbance in Electric-Field-Controlled Magnetic Random-Access Memory. <i>IEEE Magnetism Letters</i> , 2017 , 8, 1-5	1.6	22
18	Room-Temperature Skyrmion Shift Device for Memory Application. <i>Nano Letters</i> , 2017 , 17, 261-268	11.5	160
17	Partial spin absorption induced magnetization switching and its voltage-assisted improvement in an asymmetrical all spin logic device at the mesoscopic scale. <i>Applied Physics Letters</i> , 2017 , 111, 052407	3.4	12
16	Large voltage-controlled magnetic anisotropy in the SrTiO ₃ /Fe/Cu structure. <i>Applied Physics Letters</i> , 2017 , 111, 152403	3.4	13
15	Dzyaloshinskii-Moriya Interaction across an Antiferromagnet-Ferromagnet Interface. <i>Physical Review Letters</i> , 2017 , 119, 027202	7.4	48
14	Interfacial control of Dzyaloshinskii-Moriya interaction in heavy metal/ferromagnetic metal thin film heterostructures. <i>Physical Review B</i> , 2016 , 94,	3.3	50
13	Room-Temperature Creation and Spin-Orbit Torque Manipulation of Skyrmions in Thin Films with Engineered Asymmetry. <i>Nano Letters</i> , 2016 , 16, 1981-8	11.5	211
12	Competing effect of spin-orbit torque terms on perpendicular magnetization switching in structures with multiple inversion asymmetries. <i>Scientific Reports</i> , 2016 , 6, 23956	4.9	18
11	Spin-torque ferromagnetic resonance measurements utilizing spin Hall magnetoresistance in W/Co ₄₀ Fe ₄₀ B ₂₀ /MgO structures. <i>Applied Physics Letters</i> , 2016 , 109, 202404	3.4	24
10	Influence of inserted Mo layer on the thermal stability of perpendicularly magnetized Ta/Mo/Co ₂₀ Fe ₆₀ B ₂₀ /MgO/Ta films. <i>AIP Advances</i> , 2016 , 6, 045107	1.5	8
9	In-plane current-driven spin-orbit torque switching in perpendicularly magnetized films with enhanced thermal tolerance. <i>Applied Physics Letters</i> , 2016 , 108, 212406	3.4	23
8	Enhanced voltage-controlled magnetic anisotropy in magnetic tunnel junctions with an MgO/PZT/MgO tunnel barrier. <i>Applied Physics Letters</i> , 2016 , 108, 112402	3.4	24
7	Spin-orbit torques in perpendicularly magnetized Ir ₂₂ Mn ₇₈ /Co ₂₀ Fe ₆₀ B ₂₀ /MgO multilayer. <i>Applied Physics Letters</i> , 2016 , 109, 222401	3.4	51
6	Strain-induced modulation of perpendicular magnetic anisotropy in Ta/CoFeB/MgO structures investigated by ferromagnetic resonance. <i>Applied Physics Letters</i> , 2015 , 106, 072402	3.4	63
5	. <i>IEEE Transactions on Magnetism</i> , 2015 , 51, 1-7	2	72

4	Current-induced spin-orbit torque switching of perpendicularly magnetized Hf CoFeB MgO and Hf CoFeB TaOx structures. <i>Applied Physics Letters</i> , 2015 , 106, 162409	3-4	48
3	Thermally stable voltage-controlled perpendicular magnetic anisotropy in Mo CoFeB MgO structures. <i>Applied Physics Letters</i> , 2015 , 107, 142403	3-4	39
2	Magneto-optical investigation of spin-orbit torques in metallic and insulating magnetic heterostructures. <i>Nature Communications</i> , 2015 , 6, 8958	17-4	55
1	Current-driven perpendicular magnetization switching in Ta/CoFeB/[TaOx or MgO/TaOx] films with lateral structural asymmetry. <i>Applied Physics Letters</i> , 2014 , 105, 102411	3-4	61