

# Xiang Li

## List of Publications by Citations

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39  
papers

1,329  
citations

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h-index

36  
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43  
ext. papers

1,610  
ext. citations

4.5  
avg, IF

4.18  
L-index

#	Paper	IF	Citations
39	Room-Temperature Creation and Spin-Orbit Torque Manipulation of Skyrmions in Thin Films with Engineered Asymmetry. <i>Nano Letters</i> , <b>2016</b> , 16, 1981-8	11.5	211
38	Room-Temperature Skyrmion Shift Device for Memory Application. <i>Nano Letters</i> , <b>2017</b> , 17, 261-268	11.5	160
37	Interfacial Dzyaloshinskii-Moriya Interaction: Effect of 5d Band Filling and Correlation with Spin Mixing Conductance. <i>Physical Review Letters</i> , <b>2018</b> , 120, 157204	7.4	73
36	. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-7	2	72
35	Enhancement of voltage-controlled magnetic anisotropy through precise control of Mg insertion thickness at CoFeB MgO interface. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 052401	3.4	64
34	Strain-induced modulation of perpendicular magnetic anisotropy in Ta/CoFeB/MgO structures investigated by ferromagnetic resonance. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 072402	3.4	63
33	Current-driven perpendicular magnetization switching in Ta/CoFeB/[TaOx or MgO/TaOx] films with lateral structural asymmetry. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 102411	3.4	61
32	Magneto-optical investigation of spin-orbit torques in metallic and insulating magnetic heterostructures. <i>Nature Communications</i> , <b>2015</b> , 6, 8958	17.4	55
31	Spin-orbit torques in perpendicularly magnetized Ir <sub>22</sub> Mn <sub>78</sub> /Co <sub>20</sub> Fe <sub>60</sub> B <sub>20</sub> /MgO multilayer. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 222401	3.4	51
30	Interfacial control of Dzyaloshinskii-Moriya interaction in heavy metal/ferromagnetic metal thin film heterostructures. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	50
29	Current-induced spin-orbit torque switching of perpendicularly magnetized Hf CoFeB MgO and Hf CoFeB TaOx structures. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 162409	3.4	48
28	Dzyaloshinskii-Moriya Interaction across an Antiferromagnet-Ferromagnet Interface. <i>Physical Review Letters</i> , <b>2017</b> , 119, 027202	7.4	48
27	Spin-orbit torque from a ferromagnetic metal. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	40
26	Thermally stable voltage-controlled perpendicular magnetic anisotropy in Mo CoFeB MgO structures. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 142403	3.4	39
25	Voltage-controlled magnetoelectric memory and logic devices. <i>MRS Bulletin</i> , <b>2018</b> , 43, 970-977	3.2	27
24	Spin-torque ferromagnetic resonance measurements utilizing spin Hall magnetoresistance in W/Co <sub>40</sub> Fe <sub>40</sub> B <sub>20</sub> /MgO structures. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 202404	3.4	24
23	Enhanced voltage-controlled magnetic anisotropy in magnetic tunnel junctions with an MgO/PZT/MgO tunnel barrier. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 112402	3.4	24

22	In-plane current-driven spin-orbit torque switching in perpendicularly magnetized films with enhanced thermal tolerance. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 212406	3.4	23
21	Write Error Rate and Read Disturbance in Electric-Field-Controlled Magnetic Random-Access Memory. <i>IEEE Magnetism Letters</i> , <b>2017</b> , 8, 1-5	1.6	22
20	Voltage-Controlled Magnetic Tunnel Junctions for Processing-In-Memory Implementation. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 440-443	4.4	18
19	Competing effect of spin-orbit torque terms on perpendicular magnetization switching in structures with multiple inversion asymmetries. <i>Scientific Reports</i> , <b>2016</b> , 6, 23956	4.9	18
18	Perpendicular magnetic tunnel junction with W seed and capping layers. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 153902	2.5	17
17	Field-Free Switching of Perpendicular Magnetization through Voltage-Gated Spin-Orbit Torque <b>2019</b> ,		15
16	Spin-Torque Ferromagnetic Resonance in W/CoFeB/W/CoFeB/MgO Stacks. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	15
15	Large voltage-controlled magnetic anisotropy in the SrTiO <sub>3</sub> /Fe/Cu structure. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 152403	3.4	13
14	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> , <b>2017</b> , 111, 052407	3.4	12
13	Colossal electric field control of magnetic anisotropy at ferromagnetic interfaces induced by iridium overlayer. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	11
12	Predictive Materials Design of Magnetic Random-Access Memory Based on Nanoscale Atomic Structure and Element Distribution. <i>Nano Letters</i> , <b>2019</b> , 19, 8621-8629	11.5	9
11	Materials Requirements of High-Speed and Low-Power Spin-Orbit-Torque Magnetic Random-Access Memory. <i>IEEE Journal of the Electron Devices Society</i> , <b>2020</b> , 8, 674-680	2.3	8
10	Influence of inserted Mo layer on the thermal stability of perpendicularly magnetized Ta/Mo/Co <sub>20</sub> Fe <sub>60</sub> B <sub>20</sub> /MgO/Ta films. <i>AIP Advances</i> , <b>2016</b> , 6, 045107	1.5	8
9	Enhancement of Perpendicular Magnetic Anisotropy Through Fe Insertion at the CoFe/W Interface. <i>IEEE Transactions on Magnetism</i> , <b>2018</b> , 54, 1-5	2	5
8	Experimental demonstration of voltage-gated spin-orbit torque switching in an antiferromagnet/ferromagnet structure. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	4
7	Large and robust charge-to-spin conversion in sputtered conductive WTe with disorder. <i>Matter</i> , <b>2021</b> , 4, 1639-1653	12.7	4
6	Charge-spin interconversion in epitaxial Pt probed by spin-orbit torques in a magnetic insulator. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	4
5	Modeling and Circuit Design of Associative Memories With Spin-Orbit Torque FETs. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , <b>2019</b> , 5, 197-205	2.4	4

4	High voltage-controlled magnetic anisotropy and interface magnetoelectric effect in sputtered multilayers annealed at high temperatures. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2020</b> , 63, 1	3.6	3
3	Voltage-controlled magnetic tunnel junctions with synthetic ferromagnet free layer sandwiched by asymmetric double MgO barriers. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> ,	3	2
2	Interface control of domain wall depinning field. <i>AIP Advances</i> , <b>2018</b> , 8, 056314	1.5	2
1	Tunable spin-orbit torque efficiency in in-plane and perpendicular magnetized [Pt/Co] <sub>n</sub> multilayer. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 042405	3.4	1