

# William Legrand

## List of Publications by Year in descending order

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23  
papers

1,536  
citations

566801

15  
h-index

794141

19  
g-index

23  
all docs

23  
docs citations

23  
times ranked

2053  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature stabilization of antiferromagnetic skyrmions in synthetic antiferromagnets. <i>Nature Materials</i> , 2020, 19, 34-42.	13.3	297
2	Room-Temperature Current-Induced Generation and Motion of sub-100 nm Skyrmions. <i>Nano Letters</i> , 2017, 17, 2703-2712.	4.5	291
3	Electrical detection of single magnetic skyrmions in metallic multilayers at room temperature. <i>Nature Nanotechnology</i> , 2018, 13, 233-237.	15.6	204
4	Hybrid chiral domain walls and skyrmions in magnetic multilayers. <i>Science Advances</i> , 2018, 4, eaat0415.	4.7	172
5	Enhanced Spin-Orbit Torque via Modulation of Spin Current Absorption. <i>Physical Review Letters</i> , 2016, 117, 217206.	2.9	104
6	Coherent Subnanosecond Switching of Perpendicular Magnetization by the Fieldlike Spin-Orbit Torque without an External Magnetic Field. <i>Physical Review Applied</i> , 2015, 3, .	1.5	77
7	Large spin-orbit torques in Pt/Co-Ni/W heterostructures. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	71
8	Chirality in Magnetic Multilayers Probed by the Symmetry and the Amplitude of Dichroism in X-Ray Resonant Magnetic Scattering. <i>Physical Review Letters</i> , 2018, 120, 037202.	2.9	59
9	Imaging non-collinear antiferromagnetic textures via single spin relaxometry. <i>Nature Communications</i> , 2021, 12, 767.	5.8	49
10	Dzyaloshinskii-Moriya interaction at disordered interfaces from <i>ab initio</i> theory: Robustness against intermixing and tunability through dusting. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	42
11	A transmission electron microscope study of Néel skyrmion magnetic textures in multilayer thin film systems with large interfacial chiral interaction. <i>Scientific Reports</i> , 2018, 8, 5703.	1.6	38
12	Modeling the Shape of Axisymmetric Skyrmions in Magnetic Multilayers. <i>Physical Review Applied</i> , 2018, 10, .	1.5	31
13	Controlled Individual Skyrmion Nucleation at Artificial Defects Formed by Ion Irradiation. <i>Small</i> , 2020, 16, e1907450.	5.2	27
14	Quantitative imaging of hybrid chiral spin textures in magnetic multilayer systems by Lorentz microscopy. <i>Physical Review B</i> , 2019, 100, .	1.1	21
15	Thermoelectric Signature of Individual Skyrmions. <i>Physical Review Letters</i> , 2021, 126, 077202.	2.9	18
16	Interfacial potential gradient modulates Dzyaloshinskii-Moriya interaction in Pt/Co/metal multilayers. <i>Physical Review Materials</i> , 2022, 6, .	0.9	11
17	Spatial extent of the Dzyaloshinskii-Moriya interaction at metallic interfaces. <i>Physical Review Materials</i> , 2022, 6, .	0.9	10
18	Electrical Signature of Noncollinear Magnetic Textures in Synthetic Antiferromagnets. <i>Physical Review Applied</i> , 2020, 14, .	1.5	4

#	ARTICLE	IF	CITATIONS
19	Chiral spin spiral in synthetic antiferromagnets probed by circular dichroism in x-ray resonant magnetic scattering. <i>Physical Review B</i> , 2021, 104, .	1.1	4
20	Spin-transfer versus spin-orbit torque MRAM. , 2016, , .		3
21	Coherent sub-nanosecond switching of perpendicular magnetization by the field-like spin-orbit torque without external magnetic field. , 2015, , .		2
22	Skyrmions in magnetic multilayers: chirality, electrical detection and current-induced motion. , 2017, , .		1
23	Electrical nucleation and detection of magnetic skyrmions. , 2021, , 255-288.		0