

Houchen Chang

List of Publications by Year in descending order

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25
papers

1,792
citations

394421

19
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

2335
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanometer-Thick Yttrium Iron Garnet Films With Extremely Low Damping. IEEE Magnetics Letters, 2014, 5, 1-4.	1.1	254
2	Damping in Yttrium Iron Garnet Nanoscale Films Capped by Platinum. Physical Review Letters, 2013, 111, 106601.	7.8	227
3	Growth and ferromagnetic resonance properties of nanometer-thick yttrium iron garnet films. Applied Physics Letters, 2012, 101, .	3.3	210
4	Long-distance propagation of short-wavelength spin waves. Nature Communications, 2018, 9, 738.	12.8	181
5	Surface-State-Dominated Spin-Charge Current Conversion in Topological-Insulator/Ferromagnetic-Insulator Heterostructures. Physical Review Letters, 2016, 117, 076601.	7.8	162
6	Ferromagnetic resonance of sputtered yttrium iron garnet nanometer films. Journal of Applied Physics, 2014, 115, .	2.5	129
7	Spin-orbit torque-assisted switching in magnetic insulator thin films with perpendicular magnetic anisotropy. Nature Communications, 2016, 7, 12688.	12.8	85
8	Exquisite growth control and magnetic properties of yttrium iron garnet thin films. Applied Physics Letters, 2016, 108, .	3.3	55
9	Photo-spin-voltaic effect. Nature Physics, 2016, 12, 861-866.	16.7	52
10	Spin waves in micro-structured yttrium iron garnet nanometer-thick films. Journal of Applied Physics, 2015, 117, .	2.5	50
11	Driving and detecting ferromagnetic resonance in insulators with the spin Hall effect. Physical Review B, 2015, 92, .	3.2	48
12	Sputtering Growth of Low-Damping Yttrium-Iron-Garnet Thin Films. IEEE Magnetics Letters, 2020, 11, 1-5.	1.1	43
13	Role of damping in spin Seebeck effect in yttrium iron garnet thin films. Science Advances, 2017, 3, e1601614.	10.3	42
14	Patterned growth of crystalline Y ₃ Fe ₅ O ₁₂ nanostructures with engineered magnetic shape anisotropy. Applied Physics Letters, 2017, 110, .	3.3	34
15	Generation of pure spin currents via spin Seebeck effect in self-biased hexagonal ferrite thin films. Applied Physics Letters, 2014, 105, .	3.3	32
16	Spin wave propagation in perpendicularly magnetized nm-thick yttrium iron garnet films. Journal of Magnetism and Magnetic Materials, 2018, 450, 3-6.	2.3	32
17	Spin transport in antiferromagnetic NiO and magnetoresistance in Y ₃ Fe ₅ O ₁₂ /NiO/Pt structures. AIP Advances, 2017, 7, 055903.	1.3	30
18	Interface effects in nanometer-thick yttrium iron garnet films studied by magneto-optical spectroscopy. Applied Physics Letters, 2016, 108, .	3.3	28

#	ARTICLE	IF	CITATIONS
19	Changes of Magnetism in a Magnetic Insulator due to Proximity to a Topological Insulator. Physical Review Letters, 2020, 125, 017204.	7.8	26
20	Nontrivial Nature and Penetration Depth of Topological Surface States in SmB_6 Thin Films. Physical Review Letters, 2018, 120, 207206.	7.8	17
21	Sputtering growth of $\text{Y}_3\text{Fe}_5\text{O}_{12}$ /Pt bilayers and spin transfer at $\text{Y}_3\text{Fe}_5\text{O}_{12}$ /Pt interfaces. APL Materials, 2017, 5, 126104.	5.1	16
22	Optical spectroscopy of sputtered nanometer-thick yttrium iron garnet films. Journal of Applied Physics, 2015, 117, .	2.5	13
23	First harmonic measurements of the spin Seebeck effect. Applied Physics Letters, 2018, 113, . Structure and basal twinning of topological insulator	3.3	13
24	$B_i S_e$ imaging of magnetic excitations in nanostructures with near-field microwave microscopy. Journal of Magnetism and Magnetic Materials, 2022, 546, 168870.	2.4	12
25	$B_i S_e$ imaging of magnetic excitations in nanostructures with near-field microwave microscopy. Journal of Magnetism and Magnetic Materials, 2022, 546, 168870.	2.3	1