

Heng-An Zhou

List of Publications by Year in descending order

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31
papers

984
citations

567281

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434195

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all docs

31
docs citations

31
times ranked

1358
citing authors

#	ARTICLE	IF	CITATIONS
1	Antidamping-Torque-Induced Switching in Biaxial Antiferromagnetic Insulators. Physical Review Letters, 2018, 120, 207204.	7.8	246
2	High Spin Hall Conductivity in Large-Area Type-II Dirac Semimetal PtTe ₂ . Advanced Materials, 2020, 32, e2000513.	21.0	117
3	Thermal generation, manipulation and thermoelectric detection of skyrmions. Nature Electronics, 2020, 3, 672-679.	26.0	86
4	Electric-field control of skyrmions in multiferroic heterostructure via magnetoelectric coupling. Nature Communications, 2021, 12, 322.	12.8	83
5	A Spin-Orbit-Torque Memristive Device. Advanced Electronic Materials, 2019, 5, 1800782.	5.1	51
6	Topology-Dependent Brownian Gyromotion of a Single Skyrmion. Physical Review Letters, 2020, 125, 027206.	7.8	50
7	Electric field controlled reversible magnetic anisotropy switching studied by spin rectification. Applied Physics Letters, 2014, 104, .	3.3	35
8	Néel-Type Elliptical Skyrmions in a Laterally Asymmetric Magnetic Multilayer. Advanced Materials, 2021, 33, e2006924.	21.0	32
9	Spin Orbit Coupling Controlled Spin Pumping and Spin Hall Magnetoresistance Effects. Advanced Electronic Materials, 2016, 2, 1600112.	5.1	25
10	Quantifying the Dzyaloshinskii-Moriya Interaction Induced by the Bulk Magnetic Asymmetry. Physical Review Letters, 2022, 128, 167202.	7.8	25
11	Electric detection of the thickness dependent damping in Co ₉₀ Zr ₁₀ thin films. Applied Physics Letters, 2013, 102, .	3.3	23
12	Spatial symmetry of spin pumping and inverse spin Hall effect in the Pt ₃ Y ₃ Fe ₅ O ₁₂ system. Physical Review B, 2016, 94, .	3.2	22
13	Efficient Spintronics with Fully Compensated Ferrimagnets. Journal of the Physical Society of Japan, 2021, 90, 081006.	1.6	21
14	Spin rectification enabled by anomalous Hall effect. Journal of Applied Physics, 2013, 113, .	2.5	20
15	Nonvolatile Bipolar Resistive Switching Behavior in the Perovskite-like (CH ₃ NH ₃) ₂ FeCl ₄ . ACS Applied Materials & Interfaces, 2016, 8, 18985-18990.	8.0	17
16	Electrically Reconfigurable 3D Spin-Orbitronics. Advanced Functional Materials, 2021, 31, 2007485.	14.9	16
17	Imaging the spin chirality of ferrimagnetic Néel skyrmions stabilized on topological antiferromagnetic Mn ₃ Sn. Physical Review Materials, 2021, 5, .	2.4	16
18	Rapid Kerr imaging characterization of the magnetic properties of two-dimensional ferromagnetic Fe ₃ GeTe ₂ . Applied Physics Letters, 2020, 117, .	3.3	14

#	ARTICLE	IF	CITATIONS
19	Magnetic field-dependent shape anisotropy in small patterned films studied using rotating magnetoresistance. <i>Scientific Reports</i> , 2015, 5, 16139.	3.3	12
20	Rare-Earth Permanent Magnet SmCo_5 for Chiral Interfacial Spin-Orbitronics. <i>Advanced Functional Materials</i> , 2021, 31, 2104426.	14.9	12
21	Fully Compensated Synthetic Antiferromagnets with Pronounced Anomalous Hall and Magneto-Optical Responses. <i>Physical Review Applied</i> , 2021, 16, .	3.8	11
22	Spin-Torque Switching in Rare-Earth-Free Compensated Ferrimagnet Mn_4N Films. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	8
23	Observation of spin rectification in Pt/yttrium iron garnet bilayer. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	7
24	Optimized growth of compensated ferrimagnetic insulator $\text{Gd}_3\text{Fe}_5\text{O}_{12}$ with a perpendicular magnetic anisotropy*. <i>Chinese Physics B</i> , 2021, 30, 097503.	1.4	7
25	Investigation of the difference between spin Hall magnetoresistance rectification and spin pumping from the viewpoint of magnetization dynamics. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	6
26	Atomic-scale insights into quantum-order parameters in bismuth-doped iron garnet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	5
27	Scaling of the thickness dependent anomalous Hall effect in amorphous ferromagnetic thin films. <i>Journal of Applied Physics</i> , 2014, 115, 17C738.	2.5	4
28	Memristors: A Spin-Orbit-Torque Memristive Device (Adv. Electron. Mater. 4/2019). <i>Advanced Electronic Materials</i> , 2019, 5, 1970022.	5.1	4
29	Utilizing spin currents from the dual surfaces of a heavy metal Pt layer for simultaneous spin-torque switching in FeTb/Pt/FeTb trilayers. <i>Applied Physics Letters</i> , 2021, 118, 212406.	3.3	4
30	Absence of spin Hall magnetoresistance in $\text{Pt}/\text{Pt}/\text{Pt}$ multilayers. <i>Physical Review B</i> , 2021, 103, .	3.3	4
31	The ferromagnetic resonance in $\text{WxMo}_{1-x}\text{YIG}$ heterostructures. <i>AIP Advances</i> , 2018, 8, 056120.	1.3	2