

Heng-An Zhou

List of Publications by Year in descending order

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31
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1358
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| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Spin-Torque Switching in Rare-Earth-Free Compensated Ferrimagnet Mn_4N Films. <i>Advanced Electronic Materials</i> , 2022, 8, . | 5.1 | 8 |
| 2 | Quantifying the Dzyaloshinskii-Moriya Interaction Induced by the Bulk Magnetic Asymmetry. <i>Physical Review Letters</i> , 2022, 128, 167202. | 7.8 | 25 |
| 3 | Electrically Reconfigurable 3D Spin-Orbitronics. <i>Advanced Functional Materials</i> , 2021, 31, 2007485. | 14.9 | 16 |
| 4 | Electric-field control of skyrmions in multiferroic heterostructure via magnetoelectric coupling. <i>Nature Communications</i> , 2021, 12, 322. | 12.8 | 83 |
| 5 | Absence of spin Hall magnetoresistance in $Pt/Co/Pt$ multilayers. <i>Physical Review B</i> , 2021, 103, . | 8.2 | 16 |
| 6 | Néel-Type Elliptical Skyrmions in a Laterally Asymmetric Magnetic Multilayer. <i>Advanced Materials</i> , 2021, 33, e2006924. | 21.0 | 32 |
| 7 | 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 |
| 8 | 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 |
| 9 | Rare-Earth Permanent Magnet $SmCo_5$ for Chiral Interfacial Spin-Orbitronics. <i>Advanced Functional Materials</i> , 2021, 31, 2104426. | 14.9 | 12 |
| 10 | Efficient Spintronics with Fully Compensated Ferrimagnets. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 081006. | 1.6 | 21 |
| 11 | Imaging the spin chirality of ferrimagnetic Néel skyrmions stabilized on topological antiferromagnetic Mn_3Sn . <i>Physical Review Materials</i> , 2021, 5, . | 2.4 | 16 |
| 12 | Optimized growth of compensated ferrimagnetic insulator $Gd_3Fe_5O_{12}$ with a perpendicular magnetic anisotropy*. <i>Chinese Physics B</i> , 2021, 30, 097503. | 1.4 | 7 |
| 13 | Fully Compensated Synthetic Antiferromagnets with Pronounced Anomalous Hall and Magneto-Optical Responses. <i>Physical Review Applied</i> , 2021, 16, . | 3.8 | 11 |
| 14 | Rapid Kerr imaging characterization of the magnetic properties of two-dimensional ferromagnetic Fe_3GeTe_2 . <i>Applied Physics Letters</i> , 2020, 117, . | 3.3 | 14 |
| 15 | Thermal generation, manipulation and thermoelectric detection of skyrmions. <i>Nature Electronics</i> , 2020, 3, 672-679. | 26.0 | 86 |
| 16 | High Spin Hall Conductivity in Large-Area Type-II Dirac Semimetal $PtTe_2$. <i>Advanced Materials</i> , 2020, 32, e2000513. | 21.0 | 117 |
| 17 | Topology-Dependent Brownian Gyromotion of a Single Skyrmion. <i>Physical Review Letters</i> , 2020, 125, 027206. | 7.8 | 50 |
| 18 | A Spin-Orbit-Torque Memristive Device. <i>Advanced Electronic Materials</i> , 2019, 5, 1800782. | 5.1 | 51 |

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|----|--|-----|-----------|
| 19 | Memristors: A Spin-Orbit Torque Memristive Device (Adv. Electron. Mater. 4/2019). Advanced Electronic Materials, 2019, 5, 1970022. | 5.1 | 4 |
| 20 | Investigation of the difference between spin Hall magnetoresistance rectification and spin pumping from the viewpoint of magnetization dynamics. Applied Physics Letters, 2018, 112, . | 3.3 | 6 |
| 21 | Antidamping-Torque-Induced Switching in Biaxial Antiferromagnetic Insulators. Physical Review Letters, 2018, 120, 207204. | 7.8 | 246 |
| 22 | The ferromagnetic resonance in $WxMo_{1-x}YIG$ heterostructures. AIP Advances, 2018, 8, 056120. | 1.3 | 2 |
| 23 | Spin Orbit Coupling Controlled Spin Pumping and Spin Hall Magnetoresistance Effects. Advanced Electronic Materials, 2016, 2, 1600112. | 5.1 | 25 |
| 24 | Nonvolatile Bipolar Resistive Switching Behavior in the Perovskite-like $(CH_3NH_3)_2FeCl_4$. ACS Applied Materials & Interfaces, 2016, 8, 18985-18990. | 8.0 | 17 |
| 25 | Spatial symmetry of spin pumping and inverse spin Hall effect in the Pt_3FeO_{12} system. Physical Review B, 2016, 94, . | 3.2 | 5 |
| 26 | Magnetic field-dependent shape anisotropy in small patterned films studied using rotating magnetoresistance. Scientific Reports, 2015, 5, 16139. | 3.3 | 12 |
| 27 | Observation of spin rectification in Pt/yttrium iron garnet bilayer. Journal of Applied Physics, 2015, 117, . | 2.5 | 7 |
| 28 | Scaling of the thickness dependent anomalous Hall effect in amorphous ferromagnetic thin films. Journal of Applied Physics, 2014, 115, 17C738. | 2.5 | 4 |
| 29 | Electric field controlled reversible magnetic anisotropy switching studied by spin rectification. Applied Physics Letters, 2014, 104, . | 3.3 | 35 |
| 30 | Electric detection of the thickness dependent damping in $Co_{90}Zr_{10}$ thin films. Applied Physics Letters, 2013, 102, . | 3.3 | 23 |
| 31 | Spin rectification enabled by anomalous Hall effect. Journal of Applied Physics, 2013, 113, . | 2.5 | 20 |