Xiaoyu Che

List of Publications by Year
in descending order

20 papers	1,417 citations	623188 14 h-index	794141 19 g-index
21 all docs	21 docs citations	21 times ranked	2469 citing authors

#	Article	IF	Citations
1	Electric-field control of spinâ€“orbit torque in a magnetically doped topological insulator. Nature Nanotechnology, 2016, 11, 352-359.	15.6	212
2	Tailoring exchange couplings in magnetic topological-insulator/antiferromagnet heterostructures. Nature Materials, 2017, 16, 94-100.	13.3	137
3	Room-Temperature Spin-Orbit Torque from Topological Surface States. Physical Review Letters, 2019, 123, 207205.	2.9	129
4	Topological Hall effect at above room temperature in heterostructures composed of a magnetic insulator and a heavy metal. Nature Electronics, 2019, 2, 182-186.	13.1	117
5	Exchange-biasing topological charges by antiferromagnetism. Nature Communications, 2018, 9, 2767.	5.8	61
6	Topological Transitions Induced by Antiferromagnetism in a Thin-Film Topological Insulator. Physical Review Letters, 2018, 121, 096802.	2.9	42
7	Proximity-Induced Magnetic Order in a Transferred Topological Insulator Thin Film on a Magnetic Insulator. ACS Nano, 2018, 12, 5042-5050.	7.3	41
8	Exploring interfacial exchange coupling and sublattice effect in heavy metal/ferrimagnetic insulator heterostructures using Hall measurements, x-ray magnetic circular dichroism, and neutron reflectometry. Physical Review B, 2019, 99, .	1.1	39
9	Probing the low-temperature limit of the quantum anomalous Hall effect. Science Advances, 2020, 6, eaaz3595.	4.7	35
10	Strongly Surface State Carrierâ€Dependent Spinâ€“Orbit Torque in Magnetic Topological Insulators. Advanced Materials, 2020, 32, e1907661.	11.1	29
11	Observation of Quantum Anomalous Hall Effect and Exchange Interaction in Topological Insulator/Antiferromagnet Heterostructure. Advanced Materials, 2020, 32, e2001460.	11.1	27
12	Unidirectional Magneto-Resistance in Modulation-Doped Magnetic Topological Insulators. Nano Letters, 2019, 19, 692-698.	4.5	20
13	Termination switching of antiferromagnetic proximity effect in topological insulator. Science Advances, 2020, 6, eaaz8463.	4.7	20
14	Anomalous helicity-dependent photocurrent in the topological insulator (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 242 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Te</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mro. Physical Review B, 2018, 97, .	1.1	12
15	A Spinâ€Orbit Torque Ratchet at Ferromagnet/Antiferromagnet Interface via Exchange Spring. Advanced Functional Materials, 2022, 32, .	7.8	8
16	Effects of Cd vacancies and unconventional spin dynamics in the Dirac semimetal Cd3As2. Journal of Chemical Physics, 2017, 147, 084706.	1.2	6
17	Efficient Spinâ€Orbit Torque Switching of Perpendicular Magnetization using Topological Insulators with High Thermal Tolerance. Advanced Electronic Materials, 2022, 8, .	2.6	6
18	Large Room Temperature Charge-to-Spin Conversion Efficiency in Topological Insulator/CoFeB bilayers. , 2018, , .		4

#	Article	IF	Citations
19	Interfacial States and Fanoâ€“Feshbach Resonance in Grapheneâ€“Silicon Vertical Junction. Nano Letters, 2019, 19, 6765-6771.	4.5	2
20	Topological spintronics and Majorana fermions. , 2019, , .		1