

Lei Pan

List of Publications by Year in descending order

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28
papers

2,304
citations

361045

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h-index

500791

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all docs

29
docs citations

29
times ranked

3081
citing authors

#	ARTICLE	IF	CITATIONS
1	Scale-Invariant Quantum Anomalous Hall Effect in Magnetic Topological Insulators beyond the Two-Dimensional Limit. <i>Physical Review Letters</i> , 2014, 113, 137201.	2.9	453
2	Precise Quantization of the Anomalous Hall Effect near Zero Magnetic Field. <i>Physical Review Letters</i> , 2015, 114, 187201.	2.9	255
3	Electric-field control of spin-orbit torque in a magnetically doped topological insulator. <i>Nature Nanotechnology</i> , 2016, 11, 352-359.	15.6	212
4	Tailoring exchange couplings in magnetic topological-insulator/antiferromagnet heterostructures. <i>Nature Materials</i> , 2017, 16, 94-100.	13.3	137
5	Metal-to-insulator switching in quantum anomalous Hall states. <i>Nature Communications</i> , 2015, 6, 8474.	5.8	136
6	Role of dimensional crossover on spin-orbit torque efficiency in magnetic insulator thin films. <i>Nature Communications</i> , 2018, 9, 3612.	5.8	84
7	Part-per-million quantization and current-induced breakdown of the quantum anomalous Hall effect. <i>Physical Review B</i> , 2018, 98, .	1.1	65
8	Exchange-biasing topological charges by antiferromagnetism. <i>Nature Communications</i> , 2018, 9, 2767.	5.8	61
9	Topological Transitions Induced by Antiferromagnetism in a Thin-Film Topological Insulator. <i>Physical Review Letters</i> , 2018, 121, 096802.	2.9	42
10	Proximity-Induced Magnetic Order in a Transferred Topological Insulator Thin Film on a Magnetic Insulator. <i>ACS Nano</i> , 2018, 12, 5042-5050.	7.3	41
11	Chiral transport along magnetic domain walls in the quantum anomalous Hall effect. <i>Npj Quantum Materials</i> , 2017, 2, .	1.8	37
12	Large exchange splitting in monolayer graphene magnetized by an antiferromagnet. <i>Nature Electronics</i> , 2020, 3, 604-611.	13.1	36
13	Probing the low-temperature limit of the quantum anomalous Hall effect. <i>Science Advances</i> , 2020, 6, eaaz3595.	4.7	35
14	Zero-field edge plasmons in a magnetic topological insulator. <i>Nature Communications</i> , 2017, 8, 1836.	5.8	32
15	Control of Spin-Wave Damping in YIG Using Spin Currents from Topological Insulators. <i>Physical Review Applied</i> , 2019, 11, .	1.5	30
16	Strongly Surface State Carrier-Dependent Spin-Orbit Torque in Magnetic Topological Insulators. <i>Advanced Materials</i> , 2020, 32, e1907661.	11.1	29
17	Observation of Quantum Anomalous Hall Effect and Exchange Interaction in Topological Insulator/Antiferromagnet Heterostructure. <i>Advanced Materials</i> , 2020, 32, e2001460.	11.1	27
18	Spectroscopic fingerprint of chiral Majorana modes at the edge of a quantum anomalous Hall insulator/superconductor heterostructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 238-242.	3.3	22

#	ARTICLE	IF	CITATIONS
19	Unidirectional Magneto-Resistance in Modulation-Doped Magnetic Topological Insulators. Nano Letters, 2019, 19, 692-698.	4.5	20
20	Termination switching of antiferromagnetic proximity effect in topological insulator. Science Advances, 2020, 6, eaaz8463.	4.7	20
21	Manipulating Exchange Bias in a Van der Waals Ferromagnet. Advanced Materials, 2022, 34, e2105266. Anomalous helicity-dependent photocurrent in the topological insulator (T_j ETQq0 0 0 rgBT /Overlock 10 Tf 50 642 Td (xm	11.1	16
22	Te Physical Review B, 2018, 97, .	1.1	12
23	Bulk dissipation in the quantum anomalous Hall effect. APL Materials, 2021, 9, 081116.	2.2	12
24	Resonant magneto-optic Kerr effect in the magnetic topological insulator Physical Review B, 2015, 92, .	1.1	7
25	Effects of Cd vacancies and unconventional spin dynamics in the Dirac semimetal Cd ₃ As ₂ . Journal of Chemical Physics, 2017, 147, 084706.	1.2	6
26	Large Room Temperature Charge-to-Spin Conversion Efficiency in Topological Insulator/CoFeB bilayers. , 2018, , .		4
27	Faraday Rotation Due to Quantum Anomalous Hall Effect in Cr-Doped (Bi,Sb) ₂ Te ₃ . Crystals, 2021, 11, 154.	1.0	2
28	Ultrafast optical control of surface and bulk magnetism in magnetic topological insulator/antiferromagnet heterostructure. Scientific Reports, 2022, 12, .	1.6	2