

Kaiming Cai

List of Publications by Year in descending order

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30
papers

2,196
citations

304743

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454955

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docs citations

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times ranked

3325
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition dependence of spin-orbit torques in PtRh/ferromagnet heterostructures. <i>APL Materials</i> , 2021, 9, .	5.1	8
2	Spin-Orbit Torque Magnetization Switching in MoTe ₂ /Permalloy Heterostructures. <i>Advanced Materials</i> , 2020, 32, e2002799.	21.0	40
3	Bloch Chirality Induced by an Interlayer Dzyaloshinskii-Moriya Interaction in Ferromagnetic Multilayers. <i>Physical Review Letters</i> , 2020, 125, 227203.	7.8	30
4	Electrical Generation and Detection of Terahertz Signal Based on Spin-Wave Emission From Ferrimagnets. <i>Physical Review Applied</i> , 2020, 13, .	3.8	8
5	Anisotropic Picosecond Spin-Photocurrent from Weyl Semimetal WTe ₂ . <i>ACS Nano</i> , 2020, 14, 3539-3545.	14.6	36
6	Ultrafast and energy-efficient spin-orbit torque switching in compensated ferrimagnets. <i>Nature Electronics</i> , 2020, 3, 37-42.	26.0	147
7	All-electric magnetization switching and Dzyaloshinskii-Moriya interaction in WTe ₂ /ferromagnet heterostructures. <i>Nature Nanotechnology</i> , 2019, 14, 945-949.	31.5	177
8	Spin Logic Devices via Electric Field Controlled Magnetization Reversal by Spin-Orbit Torque. <i>IEEE Electron Device Letters</i> , 2019, 40, 1554-1557.	3.9	69
9	Deterministic magnetic switching of perpendicular magnets by gradient current density. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 489, 165474.	2.3	14
10	Nonlinear magnetotransport shaped by Fermi surface topology and convexity. <i>Nature Communications</i> , 2019, 10, 1290.	12.8	38
11	Anomalous Photothermoelectric Transport Due to Anisotropic Energy Dispersion in WTe ₂ . <i>Nano Letters</i> , 2019, 19, 2647-2652.	9.1	21
12	Magnetization switching by magnon-mediated spin torque through an antiferromagnetic insulator. <i>Science</i> , 2019, 366, 1125-1128.	12.6	127
13	Electric-field control of spin accumulation direction for spin-orbit torques. <i>Nature Communications</i> , 2019, 10, 248.	12.8	61
14	Nonvolatile infrared memory in MoS ₂ /PbS van der Waals heterostructures. <i>Science Advances</i> , 2018, 4, eaap7916.	10.3	161
15	Room-Temperature Nanoseconds Spin Relaxation in WTe ₂ and MoTe ₂ Thin Films. <i>Advanced Science</i> , 2018, 5, 1700912.	11.2	34
16	Oscillatory spin-orbit torque switching induced by field-like torques. <i>Communications Physics</i> , 2018, 1, .	5.3	28
17	Recent advances in spin-orbit torques: Moving towards device applications. <i>Applied Physics Reviews</i> , 2018, 5, 031107.	11.3	176
18	Anomalous Hall Effect of Fe ₂ CoSi/Pt Multilayers With Large Perpendicular Magnetic Anisotropy. <i>IEEE Transactions on Magnetism</i> , 2018, 54, 1-4.	2.1	2

#	ARTICLE	IF	CITATIONS
19	Field-Free Spin-Orbit Torque Switching from Geometrical Domain-Wall Pinning. Nano Letters, 2018, 18, 4669-4674.	9.1	48
20	Observation of Out-of-Plane Spin Texture in a SrTiO_3 Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 692 Td (stretchy="false")		
21	Review Letters, 2018, 120, 266802. Pressure-Induced Metallization and Robust Superconductivity in Pristine $\text{1T}'\text{-SnSe}_2$. Advanced Electronic Materials, 2018, 4, 1800155.	5.1	33
22	Electric field control of deterministic current-induced magnetization switching in a hybrid ferromagnetic/ferroelectric structure. Nature Materials, 2017, 16, 712-716.	27.5	401
23	Progress of electrical control magnetization reversal and domain wall motion. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 027501.	0.5	19
24	Piezo Voltage Controlled Planar Hall Effect Devices. Scientific Reports, 2016, 6, 28458.	3.3	40
25	Spin-orbit torque in Pt/CoNiCo/Pt symmetric devices. Scientific Reports, 2016, 6, 20778.	3.3	92
26	Rational Design of Ultralarge $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$ Nanoplates for Exploring Crystalline Symmetry-Protected Topological Transport. Advanced Materials, 2016, 28, 617-623.	21.0	38
27	Gate Tuning of High-Performance InSe-Based Photodetectors Using Graphene Electrodes. Advanced Optical Materials, 2015, 3, 1418-1423.	7.3	170
28	Strong enhancement of photoresponsivity with shrinking the electrodes spacing in few layer GaSe photodetectors. Scientific Reports, 2015, 5, 8130.	3.3	106
29	Transport and Capacitance Properties of Charge Density Wave in Few-Layer 2H-TaS_2 Devices. Chinese Physics Letters, 2014, 31, 077203.	3.3	9
30	Synthesis of Homogenous Bilayer Graphene on Industrial Cu Foil. Chinese Physics Letters, 2014, 31, 067202.	3.3	10