

Kaiming Cai

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

2,196
citations

304743

22
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

3325
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric field control of deterministic current-induced magnetization switching in a hybrid ferromagnetic/ferroelectric structure. <i>Nature Materials</i> , 2017, 16, 712-716.	27.5	401
2	All-electric magnetization switching and Dzyaloshinskiiâ€Moriya interaction in WTe ₂ /ferromagnet heterostructures. <i>Nature Nanotechnology</i> , 2019, 14, 945-949.	31.5	177
3	Recent advances in spin-orbit torques: Moving towards device applications. <i>Applied Physics Reviews</i> , 2018, 5, 031107.	11.3	176
4	Gate Tuning of High-Performance InSeâ€Based Photodetectors Using Graphene Electrodes. <i>Advanced Optical Materials</i> , 2015, 3, 1418-1423.	7.3	170
5	Nonvolatile infrared memory in MoS ₂ /PbS van der Waals heterostructures. <i>Science Advances</i> , 2018, 4, eaap7916.	10.3	161
6	Ultrafast and energy-efficient spinâ€orbit torque switching in compensated ferrimagnets. <i>Nature Electronics</i> , 2020, 3, 37-42.	26.0	147
7	Magnetization switching by magnon-mediated spin torque through an antiferromagnetic insulator. <i>Science</i> , 2019, 366, 1125-1128.	12.6	127
8	Strong enhancement of photoresponsivity with shrinking the electrodes spacing in few layer GaSe photodetectors. <i>Scientific Reports</i> , 2015, 5, 8130.	3.3	106
9	Spin-orbit torque in Pt/CoNiCo/Pt symmetric devices. <i>Scientific Reports</i> , 2016, 6, 20778.	3.3	92
10	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
11	Electric-field control of spin accumulation direction for spin-orbit torques. <i>Nature Communications</i> , 2019, 10, 248.	12.8	61
12	Observation of Out-of-Plane Spin Texture in a $\text{SrTiO}_3/\text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 292 Td}$ heterostructure. <i>Review Letters</i> , 2018, 120, 266802.	7.8	53
13	Field-Free Spinâ€Orbit Torque Switching from Geometrical Domain-Wall Pinning. <i>Nano Letters</i> , 2018, 18, 4669-4674.	9.1	48
14	Piezo Voltage Controlled Planar Hall Effect Devices. <i>Scientific Reports</i> , 2016, 6, 28458.	3.3	40
15	Spinâ€Orbit Torque Magnetization Switching in MoTe ₂ /Permalloy Heterostructures. <i>Advanced Materials</i> , 2020, 32, e2002799.	21.0	40
16	Rational Design of Ultralarge Pb _{1-x} Sn _x Te Nanoplates for Exploring Crystalline Symmetryâ€Protected Topological Transport. <i>Advanced Materials</i> , 2016, 28, 617-623.	21.0	38
17	Nonlinear magnetotransport shaped by Fermi surface topology and convexity. <i>Nature Communications</i> , 2019, 10, 1290.	12.8	38
18	Anisotropic Picosecond Spin-Photocurrent from Weyl Semimetal WTe ₂ . <i>ACS Nano</i> , 2020, 14, 3539-3545.	14.6	36

#	ARTICLE	IF	CITATIONS
19	Room-Temperature Nanoseconds Spin Relaxation in WTe_2 and $MoTe_2$ Thin Films. <i>Advanced Science</i> , 2018, 5, 1700912.	11.2	34
20	Pressure-Induced Metallization and Robust Superconductivity in Pristine $1T-SnSe$. <i>Advanced Electronic Materials</i> , 2018, 4, 1800155.	5.1	33
21	Bloch Chirality Induced by an Interlayer Dzyaloshinskii-Moriya Interaction in Ferromagnetic Multilayers. <i>Physical Review Letters</i> , 2020, 125, 227203.	7.8	30
22	Oscillatory spin-orbit torque switching induced by field-like torques. <i>Communications Physics</i> , 2018, 1, .	5.3	28
23	Anomalous Photothermoelectric Transport Due to Anisotropic Energy Dispersion in WTe_2 . <i>Nano Letters</i> , 2019, 19, 2647-2652.	9.1	21
24	Progress of electrical control magnetization reversal and domain wall motion. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2017, 66, 027501.	0.5	19
25	Deterministic magnetic switching of perpendicular magnets by gradient current density. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 489, 165474.	2.3	14
26	Synthesis of Homogenous Bilayer Graphene on Industrial Cu Foil. <i>Chinese Physics Letters</i> , 2014, 31, 067202.	3.3	10
27	Transport and Capacitance Properties of Charge Density Wave in Few-Layer $2H-TaS_2$ Devices. <i>Chinese Physics Letters</i> , 2014, 31, 077203.	3.3	9
28	Electrical Generation and Detection of Terahertz Signal Based on Spin-Wave Emission From Ferrimagnets. <i>Physical Review Applied</i> , 2020, 13, .	3.8	8
29	Composition dependence of spin-orbit torques in PtRh/ferromagnet heterostructures. <i>APL Materials</i> , 2021, 9, .	5.1	8
30	Anomalous Hall Effect of Fe_2CoSi/Pt Multilayers With Large Perpendicular Magnetic Anisotropy. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	2.1	2