Congli He

List of Publications by Year
in descending order

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30	2,306	304743 22	477307 29
papers	citations	h-index	g-index

30	30	30	3893
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultra-sensitive strain sensors based on piezoresistive nanographene films. Applied Physics Letters, 2012, 101, 063112.	3.3	270
2	Large-scale flexible and transparent electronics based on monolayer molybdenum disulfide field-effect transistors. Nature Electronics, 2020, 3, 711-717.	26.0	255
3	Current-driven magnetization switching in a van der Waals ferromagnet Fe ₃ GeTe ₂. Science Advances, 2019, 5, eaaw8904.	10.3	239
4	Room-Temperature Skyrmion Shift Device for Memory Application. Nano Letters, 2017, 17, 261-268.	9.1	227
5	Thermally Induced Graphene Rotation on Hexagonal Boron Nitride. Physical Review Letters, 2016, 116, 126101.	7.8	142
6	High Spin Hall Conductivity in Largeâ€Area Typeâ€II Dirac Semimetal PtTe₂. Advanced Materials, 2020, 32, e2000513.	21.0	117
7	Interfacial Dzyaloshinskii-Moriya Interaction: Effect of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>5</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math> Band Filling and Correlation with Spin Mixing Conductance. Physical Review Letters, 2018, 120, 157204.	7.8	116
8	Multilevel Resistive Switching in Planar Graphene/SiO₂ Nanogap Structures. ACS Nano, 2012, 6, 4214-4221.	14.6	114
9	Room-Temperature Skyrmions in an Antiferromagnet-Based Heterostructure. Nano Letters, 2018, 18, 980-986.	9.1	98
10	Role of dimensional crossover on spin-orbit torque efficiency in magnetic insulator thin films. Nature Communications, 2018, 9, 3612.	12.8	84
11	Artificial Synapse Based on van der Waals Heterostructures with Tunable Synaptic Functions for Neuromorphic Computing. ACS Applied Materials & Interfaces, 2020, 12, 11945-11954.	8.0	75
12	Current-driven perpendicular magnetization switching in Ta/CoFeB/[TaOx or MgO/TaOx] films with lateral structural asymmetry. Applied Physics Letters, 2014, 105, .	3.3	71
13	Tunable Electroluminescence in Planar Graphene/SiO₂ Memristors. Advanced Materials, 2013, 25, 5593-5598.	21.0	67
14	Spin-orbit torques in perpendicularly magnetized Ir22Mn78/Co20Fe60B20/MgO multilayer. Applied Physics Letters, 2016, 109, .	3.3	58
15	A Reliable Allâ€2D Materials Artificial Synapse for High Energyâ€Efficient Neuromorphic Computing. Advanced Functional Materials, 2021, 31, 2011083.	14.9	53
16	Joule Heating Effect on Field-Free Magnetization Switching by Spin-Orbit Torque in Exchange-Biased Systems. Physical Review Applied, 2017, 7, .	3.8	48
17	New Floating Gate Memory with Excellent Retention Characteristics. Advanced Electronic Materials, 2019, 5, 1800726.	5.1	48
18	Gate-tunable large-scale flexible monolayer MoS2 devices for photodetectors and optoelectronic synapses. Nano Research, 2022, 15, 5418-5424.	10.4	48

#	Article	IF	Citations
19	Spin-torque ferromagnetic resonance measurements utilizing spin Hall magnetoresistance in W/Co40Fe40B20/MgO structures. Applied Physics Letters, 2016, 109, .	3.3	36
20	Exchange bias and spinâ€“orbit torque in the Fe3GeTe2-based heterostructures prepared by vacuum exfoliation approach. Applied Physics Letters, 2021, 118, .	3.3	27
21	Spin-torque ferromagnetic resonance in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mrow><mml:mrow><mml:mi mathvariant="normal">W</mml:mi></mml:mrow></mml:mrow><mml:mo>/</mml:mo><mml:mi>Co</mml:mi><mml:msub displaystyle="false" scriptlevel="0"><mml:mtext>â€“</mml:mtext></mml:msub><mml:mi>Fe</mml:mi><mml:msub displaystyle="false"	3.3	23
22	Characterization of Spin-Orbit Torque Efficiency in Magnetic Heterostructures with Perpendicular Magnetic Anisotropy via Spin-Torque Ferromagnetic Resonance. Physical Review Applied, 2020, 13, .	3.8	22
23	Competing effect of spin-orbit torque terms on perpendicular magnetization switching in structures with multiple inversion asymmetries. Scientific Reports, 2016, 6, 23956.	3.3	21
24	Correlation between the Dzyaloshinskii-Moriya interaction and spin-mixing conductance at an antiferromagnet/ferromagnet interface. Physical Review B, 2018, 98, .	3.2	13
25	Nonvolatile Memory: New Floating Gate Memory with Excellent Retention Characteristics (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.1	8
26	Interfacial spin transmission and spinâ€“orbit torques in as-grown and annealed W/Co2FeAl/MgO multilayers. Applied Physics Letters, 2020, 117, .	3.3	8
27	Study of the perpendicular magnetic anisotropy, spinâ€“orbit torque, and Dzyaloshinskiiâ€“Moriya interaction in the heavy metal/CoFeB bilayers with Ir22Mn78 insertion. Applied Physics Letters, 2020, 116, 242407.	3.3	8
28	Enhancement of the spinâ€“orbit torque efficiency in W/Cu/CoFeB heterostructures via interface engineering. Applied Physics Letters, 2020, 117, 082409.	3.3	6
29	Versatile Fabrication of Self-Aligned Nanoscale Hall Devices Using Nanowire Masks. Nano Letters, 2016, 16, 3109-3115.	9.1	4
30	Real-space observation of non-collinear spin structure in centrosymmetric TbGa rare-earth magnet. AIP Advances, 2022, 12, 055315.	1.3	0