

# Congli He

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6144510/publications.pdf>

Version: 2024-02-01

30  
papers

2,306  
citations

304743

22  
h-index

477307

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

3893  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gate-tunable large-scale flexible monolayer MoS <sub>2</sub> devices for photodetectors and optoelectronic synapses. Nano Research, 2022, 15, 5418-5424.	10.4	48
2	Real-space observation of non-collinear spin structure in centrosymmetric TbGa rare-earth magnet. AIP Advances, 2022, 12, 055315.	1.3	0
3	A Reliable All-2D Materials Artificial Synapse for High Energy-Efficient Neuromorphic Computing. Advanced Functional Materials, 2021, 31, 2011083.	14.9	53
4	Exchange bias and spin-orbit torque in the Fe <sub>3</sub> GeTe <sub>2</sub> -based heterostructures prepared by vacuum exfoliation approach. Applied Physics Letters, 2021, 118, .	3.3	27
5	Large-scale flexible and transparent electronics based on monolayer molybdenum disulfide field-effect transistors. Nature Electronics, 2020, 3, 711-717.	26.0	255
6	Enhancement of the spin-orbit torque efficiency in W/Cu/CoFeB heterostructures via interface engineering. Applied Physics Letters, 2020, 117, 082409.	3.3	6
7	Interfacial spin transmission and spin-orbit torques in as-grown and annealed W/Co <sub>2</sub> FeAl/MgO multilayers. Applied Physics Letters, 2020, 117, .	3.3	8
8	Study of the perpendicular magnetic anisotropy, spin-orbit torque, and Dzyaloshinskii-Moriya interaction in the heavy metal/CoFeB bilayers with Ir <sub>22</sub> Mn <sub>78</sub> insertion. Applied Physics Letters, 2020, 116, 242407.	3.3	8
9	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
10	High Spin Hall Conductivity in Large-Area Type-II Dirac Semimetal PtTe <sub>2</sub> . Advanced Materials, 2020, 32, e2000513.	21.0	117
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 magnetization switching in a van der Waals ferromagnet Fe <sub>3</sub> GeTe <sub>2</sub> . Science Advances, 2019, 5, eaaw8904.	10.3	239
13	Nonvolatile Memory: New Floating Gate Memory with Excellent Retention Characteristics (Adv.) Tj ETQq1 1 0.784314 rgBT / Q <sub>overlock</sub> 5.1 8		
14	New Floating Gate Memory with Excellent Retention Characteristics. Advanced Electronic Materials, 2019, 5, 1800726.	5.1	48
15	Interfacial Dzyaloshinskii-Moriya Interaction: Effect of $\frac{d}{W}$ Band Filling and Correlation with Spin Mixing Conductance. Physical Review Letters, 2018, 120, 157204.	7.8	116
16	Room-Temperature Skyrmions in an Antiferromagnet-Based Heterostructure. Nano Letters, 2018, 18, 980-986.	9.1	98
17	Spin-Torque Ferromagnetic Resonance in $\frac{d}{W}$ $W$ $Co$ $Fe$ $x$ $2$		
18	Correlation between the Dzyaloshinskii-Moriya interaction and spin-mixing conductance at an antiferromagnet/ferromagnet interface. Physical Review B, 2018, 98, .	3.2	13

#	ARTICLE	IF	CITATIONS
19	Role of dimensional crossover on spin-orbit torque efficiency in magnetic insulator thin films. Nature Communications, 2018, 9, 3612.	12.8	84
20	Joule Heating Effect on Field-Free Magnetization Switching by Spin-Orbit Torque in Exchange-Biased Systems. Physical Review Applied, 2017, 7, .	3.8	48
21	Room-Temperature Skyrmion Shift Device for Memory Application. Nano Letters, 2017, 17, 261-268.	9.1	227
22	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
23	Spin-torque ferromagnetic resonance measurements utilizing spin Hall magnetoresistance in W/Co40Fe40B20/MgO structures. Applied Physics Letters, 2016, 109, .	3.3	36
24	Spin-orbit torques in perpendicularly magnetized Ir22Mn78/Co20Fe60B20/MgO multilayer. Applied Physics Letters, 2016, 109, .	3.3	58
25	Versatile Fabrication of Self-Aligned Nanoscale Hall Devices Using Nanowire Masks. Nano Letters, 2016, 16, 3109-3115.	9.1	4
26	Thermally Induced Graphene Rotation on Hexagonal Boron Nitride. Physical Review Letters, 2016, 116, 126101.	7.8	142
27	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
28	Tunable Electroluminescence in Planar Graphene/SiO <sub>2</sub> Memristors. Advanced Materials, 2013, 25, 5593-5598.	21.0	67
29	Ultra-sensitive strain sensors based on piezoresistive nanographene films. Applied Physics Letters, 2012, 101, 063112.	3.3	270
30	Multilevel Resistive Switching in Planar Graphene/SiO <sub>2</sub> Nanogap Structures. ACS Nano, 2012, 6, 4214-4221.	14.6	114