

Ting Cao

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

8,134
citations

30
h-index

54
g-index

54
ext. papers

10,313
ext. citations

18.9
avg, IF

6.01
L-index

#	Paper	IF	Citations
48	Reversible strain-induced magnetic phase transition in a van der Waals magnet.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	9
47	Long-range transport of 2D excitons with acoustic waves.. <i>Nature Communications</i> , 2022 , 13, 1334	17.4	3
46	Spin photovoltaic effect in magnetic van der Waals heterostructures. <i>Science Advances</i> , 2021 , 7, eabg8094	14.3	0
45	Direct visualization of magnetic domains and moiré magnetism in twisted 2D magnets. <i>Science</i> , 2021 , 374, 1140-1144	33.3	21
44	Topological Phases in Graphene Nanoribbons Tuned by Electric Fields. <i>Physical Review Letters</i> , 2021 , 127, 166401	7.4	3
43	Imaging Graphene Moiré Superlattices via Scanning Kelvin Probe Microscopy. <i>Nano Letters</i> , 2021 , 21, 3280-3286	11.5	3
42	Experimental measurement of the intrinsic excitonic wave function. <i>Science Advances</i> , 2021 , 7,	14.3	14
41	Interlayer electronic coupling on demand in a 2D magnetic semiconductor. <i>Nature Materials</i> , 2021 , 20, 1657-1662	27	12
40	Theory and Ab Initio Calculation of Optically Excited States-Recent Advances in 2D Materials. <i>Advanced Materials</i> , 2021 , 33, e1904306	24	7
39	Designing artificial two-dimensional landscapes via atomic-layer substitution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
38	Twist-Angle-Dependent Ultrafast Charge Transfer in MoS-Graphene van der Waals Heterostructures. <i>Nano Letters</i> , 2021 , 21, 8051-8057	11.5	8
37	Optical Imaging and Spectroscopy of Atomically Precise Armchair Graphene Nanoribbons. <i>Nano Letters</i> , 2020 , 20, 1124-1130	11.5	11
36	Directly visualizing the momentum-forbidden dark excitons and their dynamics in atomically thin semiconductors. <i>Science</i> , 2020 , 370, 1199-1204	33.3	55
35	Inducing metallicity in graphene nanoribbons via zero-mode superlattices. <i>Science</i> , 2020 , 369, 1597-1603	33.3	46
34	Emerging photoluminescence from the dark-exciton phonon replica in monolayer WSe. <i>Nature Communications</i> , 2019 , 10, 2469	17.4	57
33	Physical origin of giant excitonic and magneto-optical responses in two-dimensional ferromagnetic insulators. <i>Nature Communications</i> , 2019 , 10, 2371	17.4	42
32	Valley-dependent exciton fine structure and Autler-Townes doublets from Berry phases in monolayer MoSe. <i>Nature Materials</i> , 2019 , 18, 1065-1070	27	18

31	Giant nonreciprocal second-harmonic generation from antiferromagnetic bilayer CrI. <i>Nature</i> , 2019 , 572, 497-501	50.4	172
30	Switching 2D magnetic states via pressure tuning of layer stacking. <i>Nature Materials</i> , 2019 , 18, 1298-1302		194
29	Momentum-Dark Intervalley Exciton in Monolayer Tungsten Diselenide Brightened Chiral Phonon. <i>ACS Nano</i> , 2019 , 13, 14107-14113	16.7	25
28	Exchange-driven intravalley mixing of excitons in monolayer transition metal dichalcogenides. <i>Nature Physics</i> , 2019 , 15, 228-232	16.2	43
27	Interfacial engineering in graphene bandgap. <i>Chemical Society Reviews</i> , 2018 , 47, 3059-3099	58.5	94
26	Unifying Optical Selection Rules for Excitons in Two Dimensions: Band Topology and Winding Numbers. <i>Physical Review Letters</i> , 2018 , 120, 087402	7.4	34
25	Ultrasensitive tunability of the direct bandgap of 2D InSe flakes via strain engineering. <i>2D Materials</i> , 2018 , 5, 021002	5.9	53
24	Topological band engineering of graphene nanoribbons. <i>Nature</i> , 2018 , 560, 204-208	50.4	287
23	Topological Phases in Cove-Edged and Chevron Graphene Nanoribbons: Geometric Structures, [Formula: see text] Invariants, and Junction States. <i>Nano Letters</i> , 2018 , 18, 7247-7253	11.5	30
22	Two-dimensional ferromagnetism in few-layer van der Waals crystals: Renormalized spin-wave theory and calculations. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 463, 28-35	2.8	21
21	Concentration Dependence of Dopant Electronic Structure in Bottom-up Graphene Nanoribbons. <i>Nano Letters</i> , 2018 , 18, 3550-3556	11.5	19
20	Generation of Anisotropic Massless Dirac Fermions and Asymmetric Klein Tunneling in Few-Layer Black Phosphorus Superlattices. <i>Nano Letters</i> , 2017 , 17, 2280-2286	11.5	33
19	Interfacial Engineering of Van der Waals Coupled 2D Layered Materials. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1601054	4.6	18
18	Discovery of intrinsic ferromagnetism in two-dimensional van der Waals crystals. <i>Nature</i> , 2017 , 546, 265-269	36.4	1890
17	Topological Phases in Graphene Nanoribbons: Junction States, Spin Centers, and Quantum Spin Chains. <i>Physical Review Letters</i> , 2017 , 119, 076401	7.4	151
16	Tunable excitons in bilayer graphene. <i>Science</i> , 2017 , 358, 907-910	33.3	89
15	Robust Stacking-Independent Ultrafast Charge Transfer in MoS ₂ /WS ₂ Bilayers. <i>ACS Nano</i> , 2017 , 11, 12020-12026	10.9	2689
14	Magnetic brightening and control of dark excitons in monolayer WSe ₂ . <i>Nature Nanotechnology</i> , 2017 , 12, 883-888	28.7	213

13	Gate Switchable Transport and Optical Anisotropy in 90° Twisted Bilayer Black Phosphorus. <i>Nano Letters</i> , 2016 , 16, 5542-6	11.5	56
12	Bottom-Up Synthesis of N = 13 Sulfur-Doped Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2684-2687	3.8	95
11	Molecular bandgap engineering of bottom-up synthesized graphene nanoribbon heterojunctions. <i>Nature Nanotechnology</i> , 2015 , 10, 156-60	28.7	340
10	Tunable Magnetism and Half-Metallicity in Hole-Doped Monolayer GaSe. <i>Physical Review Letters</i> , 2015 , 114, 236602	7.4	257
9	Site-Specific Substitutional Boron Doping of Semiconducting Armchair Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8872-5	16.4	177
8	Strong Second-Harmonic Generation in Atomic Layered GaSe. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7994-7	16.4	206
7	Nonanalyticity, Valley Quantum Phases, and Lightlike Exciton Dispersion in Monolayer Transition Metal Dichalcogenides: Theory and First-Principles Calculations. <i>Physical Review Letters</i> , 2015 , 115, 176801	7.4	130
6	Three-dimensional spirals of atomic layered MoS ₂ . <i>Nano Letters</i> , 2014 , 14, 6418-23	11.5	136
5	Probing excitonic dark states in single-layer tungsten disulphide. <i>Nature</i> , 2014 , 513, 214-8	50.4	672
4	Evolution of interlayer coupling in twisted molybdenum disulfide bilayers. <i>Nature Communications</i> , 2014 , 5, 4966	17.4	410
3	Coupling the valley degree of freedom to antiferromagnetic order. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3738-42	11.5	167
2	Valley-selective circular dichroism of monolayer molybdenum disulphide. <i>Nature Communications</i> , 2012 , 3, 887	17.4	1702
1	Adsorption of hydrogen on the interface of a graphene/boron nitride hybrid atomic membrane. <i>Physical Review B</i> , 2011 , 84,	3.3	7