

Mengzhou Liao

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.

31
papers

1,714
citations

19
h-index

33
g-index

33
ext. papers

2,187
ext. citations

10
avg, IF

4.27
L-index

#	Paper	IF	Citations
31	Hot-Pressed Two-Dimensional Amorphous Metals and Their Electronic Properties. <i>Crystals</i> , 2022 , 12, 616	2.3	
30	Ultra-low friction and edge-pinning effect in large-lattice-mismatch van der Waals heterostructures. <i>Nature Materials</i> , 2021 ,	27	21
29	Precise control of the interlayer twist angle in large scale MoS homostructures. <i>Nature Communications</i> , 2020 , 11, 2153	17.4	55
28	Scratching lithography for wafer-scale MoS ₂ monolayers. <i>2D Materials</i> , 2020 , 7, 045028	5.9	4
27	In Situ Oxygen Doping of Monolayer MoS for Novel Electronics. <i>Small</i> , 2020 , 16, e2004276	11	21
26	Current-driven magnetization switching in a van der Waals ferromagnet FeGeTe. <i>Science Advances</i> , 2019 , 5, eaaw8904	14.3	119
25	Enhancing and controlling valley magnetic response in MoS/WS heterostructures by all-optical route. <i>Nature Communications</i> , 2019 , 10, 4226	17.4	20
24	Strongly distinct electrical response between circular and valley polarization in bilayer transition metal dichalcogenides. <i>Physical Review B</i> , 2019 , 99,	3.3	10
23	Strong and tunable interlayer coupling of infrared-active phonons to excitons in van der Waals heterostructures. <i>Physical Review B</i> , 2019 , 99,	3.3	6
22	Boundary activated hydrogen evolution reaction on monolayer MoS. <i>Nature Communications</i> , 2019 , 10, 1348	17.4	168
21	Pressure-mediated contact quality improvement between monolayer MoS ₂ and graphite. <i>Chinese Physics B</i> , 2019 , 28, 017301	1.2	2
20	Giant Valley Coherence at Room Temperature in 3R WS with Broken Inversion Symmetry. <i>Research</i> , 2019 , 2019, 6494565	7.8	7
19	2D proximate quantum spin liquid state in atomic-thin RuCl_3 . <i>2D Materials</i> , 2019 , 6, 015014	5.9	16
18	Temperature-driven evolution of critical points, interlayer coupling, and layer polarization in bilayer MoS ₂ . <i>Physical Review B</i> , 2018 , 97,	3.3	18
17	Robust spin-valley polarization in commensurate MoS ₂ /graphene heterostructures. <i>Physical Review B</i> , 2018 , 97,	3.3	20
16	Bandgap broadening at grain boundaries in single-layer MoS ₂ . <i>Nano Research</i> , 2018 , 11, 6102-6109	10	17
15	Twist angle-dependent conductivities across MoS/graphene heterojunctions. <i>Nature Communications</i> , 2018 , 9, 4068	17.4	59

14	Magnetotransport Properties of Graphene Nanoribbons with Zigzag Edges. <i>Physical Review Letters</i> , 2018 , 120, 216601	7.4	19
13	Strongly enhanced exciton-phonon coupling in two-dimensional WSe ₂ . <i>Physical Review B</i> , 2018 , 97,	3.3	21
12	Large area growth of monolayer MoS ₂ film on quartz and its use as a saturable absorber in laser mode-locking. <i>Semiconductor Science and Technology</i> , 2017 , 32, 025013	1.8	16
11	Free-Standing Single-Molecule Thick Crystals Consisting of Linear Long-Chain Polymers. <i>Nano Letters</i> , 2017 , 17, 1655-1659	11.5	7
10	Precisely Aligned Monolayer MoS Epitaxially Grown on h-BN basal Plane. <i>Small</i> , 2017 , 13, 1603005	11	73
9	Argon Plasma Induced Phase Transition in Monolayer MoS. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10216-10219	16.4	234
8	Graphene-Contacted Ultrashort Channel Monolayer MoS Transistors. <i>Advanced Materials</i> , 2017 , 29, 1702522	24.2	144
7	Highly Sensitive MoS Humidity Sensors Array for Noncontact Sensation. <i>Advanced Materials</i> , 2017 , 29, 1702076	24	223
6	Wafer-Scale Growth and Transfer of Highly-Oriented Monolayer MoS Continuous Films. <i>ACS Nano</i> , 2017 , 11, 12001-12007	16.7	264
5	Modulating PL and electronic structures of MoS ₂ /graphene heterostructures via interlayer twisting angle. <i>Applied Physics Letters</i> , 2017 , 111, 263106	3.4	31
4	Patterned Peeling 2D MoS ₂ off the Substrate. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16546-509.5	9.5	28
3	Integrated Flexible and High-Quality Thin Film Transistors Based on Monolayer MoS ₂ . <i>Advanced Electronic Materials</i> , 2016 , 2, 1500379	6.4	37
2	The Effect of Twin Grain Boundary Tuned by Temperature on the Electrical Transport Properties of Monolayer MoS ₂ . <i>Crystals</i> , 2016 , 6, 115	2.3	15
1	Rolling Up a Monolayer MoS ₂ Sheet. <i>Small</i> , 2016 , 12, 3770-4	11	39