

Ming-Hui Chiu

List of Publications by Year in Descending Order

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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.

32 papers	5,245 citations	22 h-index	35 g-index
35 ext. papers	6,393 ext. citations	16.3 avg, IF	5.37 L-index

#	Paper	IF	Citations
32	Ultralow contact resistance between semimetal and monolayer semiconductors. <i>Nature</i> , 2021 , 593, 211-217	31.7	154
31	Strain-Directed Layer-By-Layer Epitaxy Toward van der Waals Homo- and Heterostructures 2021 , 3, 442-453		3
30	Mixed-state electron ptychography enables sub-angstrom resolution imaging with picometer precision at low dose. <i>Nature Communications</i> , 2020 , 11, 2994	17.4	22
29	Strain engineering and epitaxial stabilization of halide perovskites. <i>Nature</i> , 2020 , 577, 209-215	50.4	213
28	Additive manufacturing assisted van der Waals integration of 3D/3D hierarchically functional nanostructures. <i>Communications Materials</i> , 2020 , 1,	6	4
27	Epitaxial Growth and Determination of Band Alignment of Bi ₂ Te ₃ /WSe ₂ Vertical van der Waals Heterojunctions 2020 , 2, 1351-1359		5
26	2D Materials: Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter (Adv. Mater. 18/2019). <i>Advanced Materials</i> , 2019 , 31, 1970132	24	0
25	One-Step Vapor-Phase Synthesis and Quantum-Confined Exciton in Single-Crystal Platelets of Hybrid Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2363-2371	6.4	20
24	Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter. <i>Advanced Materials</i> , 2019 , 31, e1900861	24	28
23	Selectively Plasmon-Enhanced Second-Harmonic Generation from Monolayer Tungsten Diselenide on Flexible Substrates. <i>ACS Nano</i> , 2018 , 12, 1859-1867	16.7	58
22	Janus monolayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2017 , 12, 744-749	28.7	828
21	Multilayer Graphene-WSe Heterostructures for WSe Transistors. <i>ACS Nano</i> , 2017 , 11, 12817-12823	16.7	65
20	Band Alignment of 2D Transition Metal Dichalcogenide Heterojunctions. <i>Advanced Functional Materials</i> , 2017 , 27, 1603756	15.6	55
19	Anomalous photoluminescence thermal quenching of sandwiched single layer MoS ₂ . <i>Optical Materials Express</i> , 2017 , 7, 3697	2.6	8
18	Heterostructured WS ₂ /CH ₃ NH ₃ PbI ₃ Photoconductors with Suppressed Dark Current and Enhanced Photodetectivity. <i>Advanced Materials</i> , 2016 , 28, 3683-9	24	319
17	Photoluminescence Enhancement and Structure Repairing of Monolayer MoSe ₂ by Hydrohalic Acid Treatment. <i>ACS Nano</i> , 2016 , 10, 1454-61	16.7	137
16	Photodetection in p-n junctions formed by electrolyte-gated transistors of two-dimensional crystals. <i>Applied Physics Letters</i> , 2016 , 109, 201107	3.4	12

15	Determination of band alignment in the single-layer MoS ₂ /WSe ₂ heterojunction. <i>Nature Communications</i> , 2015 , 6, 7666	17.4	421
14	Emerging energy applications of two-dimensional layered transition metal dichalcogenides. <i>Nano Energy</i> , 2015 , 18, 293-305	17.1	181
13	Band gap-tunable molybdenum sulfide selenide monolayer alloy. <i>Small</i> , 2014 , 10, 2589-94	11	92
12	Second harmonic generation from artificially stacked transition metal dichalcogenide twisted bilayers. <i>ACS Nano</i> , 2014 , 8, 2951-8	16.7	294
11	Large-area synthesis of highly crystalline WSe ₂ monolayers and device applications. <i>ACS Nano</i> , 2014 , 8, 923-30	16.7	732
10	Observing grain boundaries in CVD-grown monolayer transition metal dichalcogenides. <i>ACS Nano</i> , 2014 , 8, 11401-8	16.7	97
9	Monolayer MoSe ₂ grown by chemical vapor deposition for fast photodetection. <i>ACS Nano</i> , 2014 , 8, 8582-87	16.7	413
8	Spectroscopic signatures for interlayer coupling in MoS ₂ -WSe ₂ van der Waals stacking. <i>ACS Nano</i> , 2014 , 8, 9649-56	16.7	233
7	Role of metal contacts in high-performance phototransistors based on WSe ₂ monolayers. <i>ACS Nano</i> , 2014 , 8, 8653-61	16.7	317
6	Controllable Synthesis of Band-Gap-Tunable and Monolayer Transition-Metal Dichalcogenide Alloys. <i>Frontiers in Energy Research</i> , 2014 , 2,	3.8	70
5	Hole mobility enhancement and p -doping in monolayer WSe ₂ by gold decoration. <i>2D Materials</i> , 2014 , 1, 034001	5.9	104
4	Ultrafast generation of pseudo-magnetic field for valley excitons in WSe ₂ monolayers. <i>Science</i> , 2014 , 346, 1205-8	33.3	192
3	Ultrafast transient terahertz conductivity of monolayer MoS ₂ and WSe ₂ grown by chemical vapor deposition. <i>ACS Nano</i> , 2014 , 8, 11147-53	16.7	161
2	Efficiency Improvement of Silicon Solar Cells by Nitric Acid Oxidization. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 022301	1.4	6
1	Performance Limits and Potential of Multilayer Graphene/Wungsten Diselenide Heterostructures. <i>Advanced Electronic Materials</i> , 2100355	6.4	0