

Jing-Kai Huang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5835270/jing-kai-huang-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

43
papers

5,381
citations

25
h-index

46
g-index

46
ext. papers

6,105
ext. citations

13.3
avg, IF

5.36
L-index

#	Paper	IF	Citations
43	High-gain phototransistors based on a CVD MoS ₂ monolayer. <i>Advanced Materials</i> , 2013 , 25, 3456-61	24	743
42	Large-area synthesis of highly crystalline WSe ₂ monolayers and device applications. <i>ACS Nano</i> , 2014 , 8, 923-30	16.7	732
41	Ultrahigh-gain photodetectors based on atomically thin graphene-MoS ₂ heterostructures. <i>Scientific Reports</i> , 2014 , 4, 3826	4.9	678
40	Wafer-scale MoS ₂ thin layers prepared by MoO ₃ sulfurization. <i>Nanoscale</i> , 2012 , 4, 6637-41	7.7	538
39	Synthesis and transfer of single-layer transition metal disulfides on diverse surfaces. <i>Nano Letters</i> , 2013 , 13, 1852-7	11.5	524
38	Monolayer MoSe ₂ grown by chemical vapor deposition for fast photodetection. <i>ACS Nano</i> , 2014 , 8, 8582-87	10.7	413
37	Selective decoration of Au nanoparticles on monolayer MoS ₂ single crystals. <i>Scientific Reports</i> , 2013 , 3, 1839	4.9	342
36	Metal-Organic Framework-Based Separators for Enhancing Li ⁺ Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. <i>ACS Energy Letters</i> , 2017 , 2, 2362-2367	20.1	160
35	Photoluminescence Enhancement and Structure Repairing of Monolayer MoSe ₂ by Hydrohalic Acid Treatment. <i>ACS Nano</i> , 2016 , 10, 1454-61	16.7	137
34	Multidirection Piezoelectricity in Mono- and Multilayered Hexagonal HnSe. <i>ACS Nano</i> , 2018 , 12, 4976-4983	16.7	133
33	Visualizing band offsets and edge states in bilayer-monolayer transition metal dichalcogenides lateral heterojunction. <i>Nature Communications</i> , 2016 , 6, 10349	17.4	99
32	Evidence of indirect gap in monolayer WSe. <i>Nature Communications</i> , 2017 , 8, 929	17.4	72
31	High quantity and quality few-layers transition metal disulfide nanosheets from wet-milling exfoliation. <i>RSC Advances</i> , 2013 , 3, 13193	3.7	69
30	Gate-Tunable and Multidirection-Switchable Memristive Phenomena in a Van Der Waals Ferroelectric. <i>Advanced Materials</i> , 2019 , 31, e1901300	24	67
29	Enhanced electrocatalytic activity of MoS ₂ (x) on TCNQ-treated electrode for hydrogen evolution reaction. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17679-85	9.5	65
28	Multilayer Graphene-WSe Heterostructures for WSe Transistors. <i>ACS Nano</i> , 2017 , 11, 12817-12823	16.7	65
27	Substrate Lattice-Guided Seed Formation Controls the Orientation of 2D Transition-Metal Dichalcogenides. <i>ACS Nano</i> , 2017 , 11, 9215-9222	16.7	64

26	Functional Two-Dimensional Coordination Polymeric Layer as a Charge Barrier in Li-S Batteries. <i>ACS Nano</i> , 2018 , 12, 836-843	16.7	63
25	Recent Progress in Short- to Long-Wave Infrared Photodetection Using 2D Materials and Heterostructures. <i>Advanced Optical Materials</i> , 2021 , 9, 2001708	8.1	59
24	Laterally Stitched Heterostructures of Transition Metal Dichalcogenide: Chemical Vapor Deposition Growth on Lithographically Patterned Area. <i>ACS Nano</i> , 2016 , 10, 10516-10523	16.7	41
23	Self-Aligned and Scalable Growth of Monolayer WSe ₂ /MoS ₂ Lateral Heterojunctions. <i>Advanced Functional Materials</i> , 2018 , 28, 1706860	15.6	36
22	Graphite edge controlled registration of monolayer MoS ₂ crystal orientation. <i>Applied Physics Letters</i> , 2015 , 106, 181904	3.4	32
21	Engineering Point-Defect States in Monolayer WSe. <i>ACS Nano</i> , 2019 , 13, 1595-1602	16.7	28
20	Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter. <i>Advanced Materials</i> , 2019 , 31, e1900861	24	28
19	Efficient electrochemical transformation of CO to C/C chemicals on benzimidazole-functionalized copper surfaces. <i>Chemical Communications</i> , 2018 , 54, 11324-11327	5.8	27
18	Toward the Growth of High Mobility 2D Transition Metal Dichalcogenide Semiconductors. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900220	4.6	23
17	Scalable Patterning of MoS ₂ Nanoribbons by Micromolding in Capillaries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20993-1001	9.5	21
16	High- κ Perovskite membranes as insulators for two-dimensional transistors.. <i>Nature</i> , 2022 , 605, 262-267	50.4	16
15	Steam-Assisted Chemical Vapor Deposition of Zeolitic Imidazolate Framework 2020 , 2, 485-491		14
14	Disorder-dependent valley properties in monolayer WSe ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	14
13	Fluorescence Quenching: Seeing Two-Dimensional Sheets on Arbitrary Substrates by Fluorescence Quenching Microscopy (Small 19/2013). <i>Small</i> , 2013 , 9, 3252-3252	11	12
12	Electrode Engineering in Halide Perovskite Electronics: Plenty of Room at the Interfaces.. <i>Advanced Materials</i> , 2022 , e2108616	24	12
11	Growth of 2H stacked WSe ₂ bilayers on sapphire. <i>Nanoscale Horizons</i> , 2019 , 4, 1434-1442	10.8	11
10	One-step growth of reduced graphene oxide on arbitrary substrates. <i>Carbon</i> , 2019 , 144, 457-463	10.4	10
9	Moiré-related in-gap states in a twisted MoS ₂ /graphite heterojunction. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	8

8	Seeing two-dimensional sheets on arbitrary substrates by fluorescence quenching microscopy. <i>Small</i> , 2013 , 9, 3253-8	11	5
7	A Solution-Processed All-Perovskite Memory with Dual-Band Light Response and Tri-Mode Operation. <i>Advanced Functional Materials</i> , 2110975	15.6	5
6	Chemical Vapor Deposited MoS ₂ Thin Layers and Their Applications. <i>ECS Transactions</i> , 2013 , 50, 61-63	1	3
5	Strain-Directed Layer-By-Layer Epitaxy Toward van der Waals Homo- and Heterostructures 2021 , 3, 442-453		3
4	Growth of High-Quality Monolayer Transition Metal Dichalcogenide Nanocrystals by Chemical Vapor Deposition and Their Photoluminescence and Electrocatalytic Properties. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47962-47971	9.5	3
3	Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste 2022 , 4, 120-127		2
2	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
1	Effect of the geometry of precursor crucibles on the growth of MoS ₂ flakes by chemical vapor deposition. <i>New Journal of Chemistry</i> , 2020 , 44, 21076-21084	3.6	