

Jing-Kai Huang

List of Publications by Year in Descending Order

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

Version: 2024-04-23

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	Electrode Engineering in Halide Perovskite Electronics: Plenty of Room at the Interfaces.. <i>Advanced Materials</i> , 2022 , e2108616	24	12
42	Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste 2022 , 4, 120-127		2
41	High- κ Perovskite membranes as insulators for two-dimensional transistors.. <i>Nature</i> , 2022 , 605, 262-267	50.4	16
40	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
39	Strain-Directed Layer-By-Layer Epitaxy Toward van der Waals Homo- and Heterostructures 2021 , 3, 442-453		3
38	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
37	Steam-Assisted Chemical Vapor Deposition of Zeolitic Imidazolate Framework 2020 , 2, 485-491		14
36	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	
35	Engineering Point-Defect States in Monolayer WSe. <i>ACS Nano</i> , 2019 , 13, 1595-1602	16.7	28
34	Toward the Growth of High Mobility 2D Transition Metal Dichalcogenide Semiconductors. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900220	4.6	23
33	Gate-Tunable and Multidirection-Switchable Memristive Phenomena in a Van Der Waals Ferroelectric. <i>Advanced Materials</i> , 2019 , 31, e1901300	24	67
32	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
31	Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter. <i>Advanced Materials</i> , 2019 , 31, e1900861	24	28
30	Growth of 2H stacked WSe ₂ bilayers on sapphire. <i>Nanoscale Horizons</i> , 2019 , 4, 1434-1442	10.8	11
29	One-step growth of reduced graphene oxide on arbitrary substrates. <i>Carbon</i> , 2019 , 144, 457-463	10.4	10
28	Self-Aligned and Scalable Growth of Monolayer WSe ₂ /MoS ₂ Lateral Heterojunctions. <i>Advanced Functional Materials</i> , 2018 , 28, 1706860	15.6	36
27	Multidirection Piezoelectricity in Mono- and Multilayered Hexagonal HnSe. <i>ACS Nano</i> , 2018 , 12, 4976-4983	36.7	133

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	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
24	Evidence of indirect gap in monolayer WSe. <i>Nature Communications</i> , 2017 , 8, 929	17.4	72
23	Metal-Organic Framework-Based Separators for Enhancing LiS Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. <i>ACS Energy Letters</i> , 2017 , 2, 2362-2367	20.1	160
22	Disorder-dependent valley properties in monolayer WSe ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	14
21	Moiré-related in-gap states in a twisted MoS ₂ /graphite heterojunction. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	8
20	Substrate Lattice-Guided Seed Formation Controls the Orientation of 2D Transition-Metal Dichalcogenides. <i>ACS Nano</i> , 2017 , 11, 9215-9222	16.7	64
19	Multilayer Graphene-WSe Heterostructures for WSe Transistors. <i>ACS Nano</i> , 2017 , 11, 12817-12823	16.7	65
18	Scalable Patterning of MoS ₂ Nanoribbons by Micromolding in Capillaries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20993-1001	9.5	21
17	Visualizing band offsets and edge states in bilayer-monolayer transition metal dichalcogenides lateral heterojunction. <i>Nature Communications</i> , 2016 , 6, 10349	17.4	99
16	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
15	Photoluminescence Enhancement and Structure Repairing of Monolayer MoSe ₂ by Hydrohalic Acid Treatment. <i>ACS Nano</i> , 2016 , 10, 1454-61	16.7	137
14	Graphite edge controlled registration of monolayer MoS ₂ crystal orientation. <i>Applied Physics Letters</i> , 2015 , 106, 181904	3.4	32
13	Ultrahigh-gain photodetectors based on atomically thin graphene-MoS ₂ heterostructures. <i>Scientific Reports</i> , 2014 , 4, 3826	4.9	678
12	Large-area synthesis of highly crystalline WSe(2) monolayers and device applications. <i>ACS Nano</i> , 2014 , 8, 923-30	16.7	732
11	Enhanced electrocatalytic activity of MoS(x) on TCNQ-treated electrode for hydrogen evolution reaction. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17679-85	9.5	65
10	Monolayer MoSe ₂ grown by chemical vapor deposition for fast photodetection. <i>ACS Nano</i> , 2014 , 8, 8582-8590	16.7	413
9	Synthesis and transfer of single-layer transition metal disulfides on diverse surfaces. <i>Nano Letters</i> , 2013 , 13, 1852-7	11.5	524

8	Seeing two-dimensional sheets on arbitrary substrates by fluorescence quenching microscopy. <i>Small</i> , 2013 , 9, 3253-8	11	5
7	Selective decoration of Au nanoparticles on monolayer MoS ₂ single crystals. <i>Scientific Reports</i> , 2013 , 3, 1839	4.9	34 ²
6	High-gain phototransistors based on a CVD MoS ₂ monolayer. <i>Advanced Materials</i> , 2013 , 25, 3456-61	24	743
5	High quantity and quality few-layers transition metal disulfide nanosheets from wet-milling exfoliation. <i>RSC Advances</i> , 2013 , 3, 13193	3.7	69
4	Chemical Vapor Deposited MoS ₂ Thin Layers and Their Applications. <i>ECS Transactions</i> , 2013 , 50, 61-63	1	3
3	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
2	Wafer-scale MoS ₂ thin layers prepared by MoO ₃ sulfurization. <i>Nanoscale</i> , 2012 , 4, 6637-41	7.7	53 ⁸
1	A Solution-Processed All-Perovskite Memory with Dual-Band Light Response and Tri-Mode Operation. <i>Advanced Functional Materials</i> , 2110975	15.6	5