

# Xiaoyu Han

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2409757/publications.pdf>

Version: 2024-02-01

20  
papers

1,396  
citations

516710

16  
h-index

752698

20  
g-index

20  
all docs

20  
docs citations

20  
times ranked

3064  
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain and Orientation Modulated Bandgaps and Effective Masses of Phosphorene Nanoribbons. Nano Letters, 2014, 14, 4607-4614.	9.1	306
2	Unique hole-accepting carbon-dots promoting selective carbon dioxide reduction nearly 100% to methanol by pure water. Nature Communications, 2020, 11, 2531.	12.8	168
3	Highly crystallized $\pm$ -FeOOH for a stable and efficient oxygen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 2021-2028.	10.3	140
4	Tunable Covalent Triazine-Based Frameworks (CTF-0) for Visible-Light-Driven Hydrogen and Oxygen Generation from Water Splitting. ACS Catalysis, 2019, 9, 7697-7707.	11.2	131
5	High Detectivity and Transparent Few-Layer $\text{MoS}_2$ /Glassy-Graphene Heterostructure Photodetectors. Advanced Materials, 2018, 30, e1706561.	21.0	111
6	Ultrasml CuCo <sub>2</sub> S <sub>4</sub> Nanocrystals: All-in-One Theragnosis Nanoplatform with Magnetic Resonance/Near-Infrared Imaging for Efficiently Photothermal Therapy of Tumors. Advanced Functional Materials, 2017, 27, 1606218.	14.9	106
7	Structural Transformation Identification of Sputtered Amorphous $\text{MoS}_2$ as an Efficient Hydrogen-Evolving Catalyst during Electrochemical Activation. ACS Catalysis, 2019, 9, 2368-2380.	11.2	78
8	<i>In situ</i> synthesized low-PtCo@porous carbon catalyst for highly efficient hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 6543-6551.	10.3	59
9	Self-standing electrodes with core-shell structures for high-performance supercapacitors. Energy Storage Materials, 2017, 9, 119-125.	18.0	52
10	Graphene-Nanodiamond Heterostructures and their application to High Current Devices. Scientific Reports, 2015, 5, 13771.	3.3	51
11	Cobalt nickel nitride coated by a thin carbon layer anchoring on nitrogen-doped carbon nanotube anodes for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 19853-19862.	10.3	38
12	Solid solution nitride/carbon nanotube hybrids enhance electrocatalysis of oxygen in zinc-air batteries. Energy Storage Materials, 2018, 15, 380-387.	18.0	32
13	Preferential Pt Nanocluster Seeding at Grain Boundary Dislocations in Polycrystalline Monolayer $\text{MoS}_2$ . ACS Nano, 2018, 12, 5626-5636.	14.6	27
14	A Targeted Functional Design for Highly Efficient and Stable Cathodes for Rechargeable Li-Ion Batteries. Advanced Functional Materials, 2017, 27, 1604903.	14.9	22
15	Spatially Bandgap-Graded $\text{MoS}_2(1-x)\text{Se}_2x$ Homojunctions for Self-Powered Visible-Near-Infrared Phototransistors. Nano-Micro Letters, 2020, 12, 26.	27.0	22
16	Epitaxial Growth of Few-Layer Black Phosphorene Quantum Dots on Si Substrates. Advanced Materials Interfaces, 2018, 5, 1801048.	3.7	20
17	Ambipolar and Robust $\text{WSe}_2$ Field-Effect Transistors Utilizing Self-Assembled Edge Oxides. Advanced Materials Interfaces, 2020, 7, 1901628.	3.7	11
18	Assembly of $1\text{T}^{\pm}\text{-MoS}_2$ based fibers for flexible energy storage. Nanoscale, 2020, 12, 6562-6570.	5.6	10

#	ARTICLE	IF	CITATIONS
19	A Metal-Free Oxygenated Covalent Triazine 2-D Photocatalyst Works Effectively from the Ultraviolet to Near-Infrared Spectrum for Water Oxidation Apart from Water Reduction. ACS Applied Energy Materials, 2020, 3, 8960-8968.	5.1	7
20	Van der Waals Effects on semiconductor clusters. Journal of Computational Chemistry, 2015, 36, 1919-1927.	3.3	5