

# Xiaoyu Han

## List of Publications by Year in descending order

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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	Ambipolar and Robust WSe <sub>2</sub> Field-Effect Transistors Utilizing Self-Assembled Edge Oxides. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901628.	3.7	11
2	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. <i>ACS Applied Energy Materials</i> , 2020, 3, 8960-8968.	5.1	7
3	Unique hole-accepting carbon-dots promoting selective carbon dioxide reduction nearly 100% to methanol by pure water. <i>Nature Communications</i> , 2020, 11, 2531.	12.8	168
4	Assembly of 1Tâ€²-MoS <sub>2</sub> based fibers for flexible energy storage. <i>Nanoscale</i> , 2020, 12, 6562-6570.	5.6	10
5	Spatially Bandgap-Graded MoS <sub>2</sub> (1âˆ™x)Se <sub>2x</sub> Homojunctions for Self-Powered Visible-Near-Infrared Phototransistors. <i>Nano-Micro Letters</i> , 2020, 12, 26.	27.0	22
6	Tunable Covalent Triazine-Based Frameworks (CTF-0) for Visible-Light-Driven Hydrogen and Oxygen Generation from Water Splitting. <i>ACS Catalysis</i> , 2019, 9, 7697-7707.	11.2	131
7	Structural Transformation Identification of Sputtered Amorphous MoS <sub>2</sub> as an Efficient Hydrogen-Evolving Catalyst during Electrochemical Activation. <i>ACS Catalysis</i> , 2019, 9, 2368-2380.	11.2	78
8	In situ synthesized low-PtCo@porous carbon catalyst for highly efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6543-6551.	10.3	59
9	High Detectivity and Transparent Few-Layer MoS <sub>2</sub> /Glassy-Graphene Heterostructure Photodetectors. <i>Advanced Materials</i> , 2018, 30, e1706561.	21.0	111
10	Cobalt nickel nitride coated by a thin carbon layer anchoring on nitrogen-doped carbon nanotube anodes for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19853-19862.	10.3	38
11	Epitaxial Growth of Few-Layer Black Phosphorene Quantum Dots on Si Substrates. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801048.	3.7	20
12	Solid solution nitride/carbon nanotube hybrids enhance electrocatalysis of oxygen in zinc-air batteries. <i>Energy Storage Materials</i> , 2018, 15, 380-387.	18.0	32
13	Preferential Pt Nanocluster Seeding at Grain Boundary Dislocations in Polycrystalline Monolayer MoS <sub>2</sub> . <i>ACS Nano</i> , 2018, 12, 5626-5636.	14.6	27
14	Ultrasmall 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. <i>Advanced Functional Materials</i> , 2017, 27, 1606218.	14.9	106
15	A Targeted Functional Design for Highly Efficient and Stable Cathodes for Rechargeable Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1604903.	14.9	22
16	Highly crystallized Î±-FeOOH for a stable and efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2021-2028.	10.3	140
17	Self-standing electrodes with core-shell structures for high-performance supercapacitors. <i>Energy Storage Materials</i> , 2017, 9, 119-125.	18.0	52
18	Graphene-Nanodiamond Heterostructures and their application to High Current Devices. <i>Scientific Reports</i> , 2015, 5, 13771.	3.3	51

#	ARTICLE	IF	CITATIONS
19	Van der Waals Effects on semiconductor clusters. Journal of Computational Chemistry, 2015, 36, 1919-1927.	3.3	5
20	Strain and Orientation Modulated Bandgaps and Effective Masses of Phosphorene Nanoribbons. Nano Letters, 2014, 14, 4607-4614.	9.1	306