## Xiaohui Ren

## List of Publications by Year in descending order

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51	3,115	27	51
papers	citations	h-index	g-index
51	51	51	4014 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Selfâ€Powered Photodetector. Advanced Functional Materials, 2017, 27, 1606834.	7.8	342
2	Few‣ayer Black Phosphorus Nanosheets as Electrocatalysts for Highly Efficient Oxygen Evolution Reaction. Advanced Energy Materials, 2017, 7, 1700396.	10.2	301
3	Highâ€Performance Photoâ€Electrochemical Photodetector Based on Liquidâ€Exfoliated Fewâ€Layered InSe Nanosheets with Enhanced Stability. Advanced Functional Materials, 2018, 28, 1705237.	7.8	258
4	Selfâ€Powered Photodetectors Based on 2D Materials. Advanced Optical Materials, 2020, 8, 1900765.	3 <b>.</b> 6	245
5	A black/red phosphorus hybrid as an electrode material for high-performance Li-ion batteries and supercapacitors. Journal of Materials Chemistry A, 2017, 5, 6581-6588.	5.2	160
6	Wall-like hierarchical metal oxide nanosheet arrays grown on carbon cloth for excellent supercapacitor electrodes. Nanoscale, 2016, 8, 13273-13279.	2.8	144
7	Plasmonic photothermal catalysis for solar-to-fuel conversion: current status and prospects. Chemical Science, 2021, 12, 5701-5719.	3.7	129
8	Present Perspectives of Advanced Characterization Techniques in TiO <sub>2</sub> -Based Photocatalysts. ACS Applied Materials & Samp; Interfaces, 2017, 9, 23265-23286.	4.0	112
9	Two-dimensional bismuth nanosheets as prospective photo-detector with tunable optoelectronic performance. Nanotechnology, 2018, 29, 235201.	1.3	98
10	Temperature-Dependent Raman Responses of the Vapor-Deposited Tin Selenide Ultrathin Flakes. Journal of Physical Chemistry C, 2017, 121, 4674-4679.	1.5	94
11	Two-dimensional MOF and COF nanosheets for next-generation optoelectronic applications. Coordination Chemistry Reviews, 2021, 435, 213781.	9.5	88
12	Triggering Water and Methanol Activation for Solar-Driven H <sub>2</sub> Production: Interplay of Dual Active Sites over Plasmonic ZnCu Alloy. Journal of the American Chemical Society, 2021, 143, 12145-12153.	6.6	85
13	2D co-catalytic MoS <sub>2</sub> nanosheets embedded with 1D TiO <sub>2</sub> nanoparticles for enhancing photocatalytic activity. Journal Physics D: Applied Physics, 2016, 49, 315304.	1.3	80
14	Recent advances of low-dimensional phosphorus-based nanomaterials for solar-driven photocatalytic reactions. Coordination Chemistry Reviews, 2020, 424, 213516.	9.5	64
15	Direct Vapor Deposition Growth of 1T′ MoTe <sub>2</sub> on Carbon Cloth for Electrocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2020, 3, 3212-3219.	2.5	52
16	Hierarchical NiSe2 sheet-like nano-architectures as an efficient and stable bifunctional electrocatalyst for overall water splitting: Phase and morphology engineering. Electrochimica Acta, 2018, 279, 195-203.	2.6	49
17	Rational construction of dual cobalt active species encapsulated by ultrathin carbon matrix from MOF for boosting photocatalytic H2 generation. Applied Catalysis B: Environmental, 2021, 286, 119924.	10.8	49
18	Hydrothermally synthesized FeCo2O4 nanostructures: Structural manipulation for high-performance all solid-state supercapacitors. Ceramics International, 2018, 44, 120-127.	2.3	48

#	Article	IF	Citations
19	Few-Layer Antimonene Nanosheet: A Metal-Free Bifunctional Electrocatalyst for Effective Water Splitting. ACS Applied Energy Materials, 2019, 2, 4774-4781.	2.5	46
20	Stabilizing Atomically Dispersed Catalytic Sites on Tellurium Nanosheets with Strong Metal–Support Interaction Boosts Photocatalysis. Small, 2020, 16, e2002356.	5 <b>.</b> 2	45
21	Self-powered photodetectors based on 0D/2D mixed dimensional heterojunction with black phosphorus quantum dots as hole accepters. Applied Materials Today, 2020, 20, 100765.	2.3	44
22	Synthesis of SnSe nanosheets by hydrothermal intercalation and exfoliation route and their photoresponse properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 214, 46-50.	1.7	42
23	Flexible Bismuth Selenide /Graphene composite paper for lithium-ion batteries. Ceramics International, 2017, 43, 1437-1442.	2.3	41
24	Flexible self-powered photoelectrochemical-type photodetector based on 2D WS2-graphene heterojunction. FlatChem, 2021, 25, 100215.	2.8	35
25	A universal strategy boosting photoelectrochemical water oxidation by utilizing MXene nanosheets as hole transfer mediators. Applied Catalysis B: Environmental, 2021, 297, 120268.	10.8	35
26	Photodetectors Based on SnS <sub>2</sub> /Graphene Heterostructure on Rigid and Flexible Substrates. ChemNanoMat, 2018, 4, 373-378.	1.5	34
27	Single Cobalt Atom Anchored Black Phosphorous Nanosheets as an Effective Cocatalyst Promotes Photocatalysis. ChemCatChem, 2020, 12, 3870-3879.	1.8	34
28	Recent insights into the robustness of two-dimensional black phosphorous in optoelectronic applications. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2020, 43, 100354.	5 <b>.</b> 6	25
29	Engineering interfacial charge transfer channel for efficient photocatalytic H2 evolution: The interplay of CoPx and Ca2+ dopant. Applied Catalysis B: Environmental, 2022, 303, 120887.	10.8	25
30	MoS <sub>2</sub> Nanosheet Loaded with TiO <sub>2</sub> Nanoparticles: An Efficient Electrocatalyst for Hydrogen Evolution Reaction. Journal of the Electrochemical Society, 2016, 163, H1087-H1090.	1.3	23
31	Hydrothermal synthesis of NiSe2 nanosheets on carbon cloths for photoelectrochemical hydrogen generation. Journal of Materials Science: Materials in Electronics, 2017, 28, 768-772.	1.1	23
32	Efficient photocatalytic CO <sub>2</sub> reduction mediated by transitional metal borides: metal site-dependent activity and selectivity. Journal of Materials Chemistry A, 2020, 8, 21833-21841.	<b>5.</b> 2	23
33	Constructing Chemical Interaction between Hematite and Carbon Nanosheets with Single Active Sites for Efficient Photoâ€Electrochemical Water Oxidation. Small Methods, 2020, 4, 2000577.	4.6	23
34	Photoelectrochemical self-powered photodetector based on 2D liquid-exfoliated bismuth nanosheets: with novel structures for portability and flexibility. Materials Today Nano, 2021, 14, 100109.	2.3	23
35	Anomalous Temperature-Dependent Raman Scattering of Vapor-Deposited Two-Dimensional Bi Thin Films. Journal of Physical Chemistry C, 2018, 122, 24459-24466.	1.5	22
36	Photoresponse improvement in liquid-exfoliated SnSe nanosheets by reduced graphene oxide hybridization. Journal of Materials Science, 2018, 53, 4371-4377.	1.7	19

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37	Tridecaboron diphosphide: a new infrared light active photocatalyst for efficient CO <sub>2</sub> photoreduction under mild reaction conditions. Journal of Materials Chemistry A, 2021, 9, 2421-2428.	5.2	19
38	Engineering Heterogeneous NiS <sub>2</sub> /NiS Cocatalysts with Progressive Electron Transfer from Planar <i>p</i> ppêi Photocathodes for Solar Hydrogen Evolution. Small Methods, 2021, 5, e2001018.	4.6	18
39	Enhanced photoresponse behavior of Au@Bi2Te3 based photoelectrochemical-type photodetector at solid-solid-liquid joint interface. Materials Today Energy, 2020, 16, 100401.	2.5	17
40	Exploring co-catalytic graphene frameworks for improving photocatalytic activity of Tin disulfide nanoplates. Solar Energy, 2017, 157, 905-910.	2.9	16
41	xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml31" display="inline" overflow="scroll" altimg="si31.gif" > mml:msub > mml:mrow > mml:mi mathvariant="normal" > WS < mml:mi >  < mml:mrow > < mml:mn > 2 < / mml:mn > < / mml:mrow > < / mml:msus >	sub> <mm sub&gt;<td>:mtext&gt;-</td></mm 	:mtext>-
42	Au Nanoparticle Modification Induces Charge-Transfer Channels to Enhance the Electrocatalytic Hydrogen Evolution Reaction of InSe Nanosheets. ACS Applied Materials & Enhances, 2022, 14, 2908-2917.	4.0	14
43	Mixed-dimensional TiO2 nanoparticles with MoSe2 nanosheets for photochemical hydrogen generation. Journal of Materials Science: Materials in Electronics, 2017, 28, 2023-2028.	1.1	9
44	Electronic and Magnetic Properties of Monolayer and Bilayer Phosphorene Doped with Transitionâ€Metal Atoms. Physica Status Solidi (B): Basic Research, 2018, 255, 1700370.	0.7	9
45	Non-stoichiometric Ag-In-S quantum dots for efficient photocatalytic CO2 reduction: Ag/In molar ratio dependent activity and selectivity. Journal of Catalysis, 2021, 401, 271-278.	3.1	9
46	Facile sonochemical-assisted synthesis of orthorhombic phase black phosphorus/rGO hybrids for effective photothermal therapy. Nanophotonics, 2020, 9, 3023-3034.	2.9	7
47	Synergy between Confined Cobalt Centers and Oxygen Defects on αâ€Fe <sub>2</sub> O <sub>3</sub> Platelets for Efficient Photocatalytic CO <sub>2</sub> Reduction. Solar Rrl, 2022, 6, 2100833.	3.1	6
48	A synergetic strategy to construct anti-reflective and anti-corrosive Co-P/WSx/Si photocathode for durable hydrogen evolution in alkaline condition. Applied Catalysis B: Environmental, 2022, 304, 120954.	10.8	6
49	Photodetectors: Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Selfâ€Powered Photodetector (Adv. Funct. Mater. 18/2017). Advanced Functional Materials, 2017, 27, .	7.8	4
50	Facile hydrothermally synthesis of hexagon tin disulfide nanosheets for high-performance photocatalytic hydrogen generation. Journal of Materials Science: Materials in Electronics, 2018, 29, 19614-19619.	1.1	3
51	P25/Black phosphorus/Graphene hybrid for enhanced photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2018, 29, 4441-4448.	1.1	2