

# Xiaoyong Xu

## List of Publications by Year in descending order

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72  
papers

2,923  
citations

159358

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168136

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73  
docs citations

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times ranked

4655  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heteroatomic Platinum-Cobalt Synergetic Active Centers with Charge Polarization Enable Superior Hydrogen Evolution Performance in both Acid and Base Media. ACS Applied Energy Materials, 2022, 5, 1496-1504.	2.5	19
2	Chameleon-Like Reconstruction on Redox Catalysts Adaptive to Alkali Water Electrolysis. Small, 2022, 18, .	5.2	9
3	Oxygen vacancies activating surface reactivity to favor charge separation and transfer in nanoporous BiVO <sub>4</sub> photoanodes. Applied Catalysis B: Environmental, 2021, 281, 119477.	10.8	116
4	Refined Z-scheme charge transfer in facet-selective BiVO <sub>4</sub> /Au/CdS heterostructure for solar overall water splitting. International Journal of Hydrogen Energy, 2021, 46, 8531-8538.	3.8	23
5	Vertical-orbital band center as an activity descriptor for hydrogen evolution reaction on single-atom-anchored 2D catalysts. Journal of Physics Condensed Matter, 2021, 33, 245201.	0.7	9
6	Role of exchange splitting and ligand-field splitting in tuning the magnetic anisotropy of an individual iridium atom on TaS <sub>2</sub> substrate. Physical Review B, 2021, 103, .	1.1	17
7	Pronounced Linewidth Narrowing of Vertical Metallic Split-Ring Resonators via Strong Coupling with Metal Surface. Nanomaterials, 2021, 11, 2194.	1.9	4
8	Engineering Self-Reconstruction via Flexible Components in Layered Double Hydroxides for Superior Evolving Performance. Small, 2021, 17, e2101671.	5.2	30
9	The mechanism of enhanced photocatalytic activity for water-splitting of ReS <sub>2</sub> by strain and electric field engineering. RSC Advances, 2021, 11, 23055-23063.	1.7	5
10	MoS <sub>2</sub> Nanostructures with the 1T Phase for Electromagnetic Wave Absorption. ACS Applied Nano Materials, 2021, 4, 11042-11051.	2.4	29
11	Redox bifunctional activities with optical gain of Ni <sub>3</sub> S <sub>2</sub> nanosheets edged with MoS <sub>2</sub> for overall water splitting. Applied Catalysis B: Environmental, 2020, 268, 118435.	10.8	118
12	Photo-induced charge kinetic acceleration in ultrathin layered double hydroxide nanosheets boosts the oxygen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 1105-1112.	5.2	32
13	Plasmonic Cocatalyst with Electric and Thermal Stimuli Boots Solar Hydrogen Evolution. Solar Rrl, 2020, 4, 2070062.	3.1	4
14	Plasmonic Cocatalyst with Electric and Thermal Stimuli Boots Solar Hydrogen Evolution. Solar Rrl, 2020, 4, 2000094.	3.1	11
15	Construction of Active Orbital via Single-Atom Cobalt Anchoring on the Surface of 1T-MoS <sub>2</sub> Basal Plane toward Efficient Hydrogen Evolution. ACS Applied Energy Materials, 2020, 3, 2315-2322.	2.5	50
16	Organic Dye Molecules Sensitization-Enhanced Photocatalytic Water-Splitting Activity of MoS <sub>2</sub> from First-Principles Calculations. Journal of Physical Chemistry C, 2020, 124, 6580-6587.	1.5	12
17	Incorporation of active phase in porous MoS <sub>2</sub> for enhanced hydrogen evolution reaction. Journal of Materials Science: Materials in Electronics, 2020, 31, 4121-4128.	1.1	3
18	Functionalization of two-dimensional 1T- $\epsilon^2$ -ReS <sub>2</sub> with surface ligands for use as a photocatalyst in the hydrogen evolution reaction: a first-principles calculation study. Physical Chemistry Chemical Physics, 2020, 22, 9415-9423.	1.3	8

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19	Engineering Interfaces to Steer Hole Dynamics of BiVO <sub>4</sub> Photoanodes for Solar Water Oxidation. Solar Rrl, 2019, 3, 1900115.	3.1	23
20	Transition metal doping activated basal-plane catalytic activity of two-dimensional 1Tâ€™-ReS <sub>2</sub> for hydrogen evolution reaction: a first-principles calculation study. Nanoscale, 2019, 11, 10402-10409.	2.8	56
21	Metallic molybdenum sulfide nanodots as platinum-alternative co-catalysts for photocatalytic hydrogen evolution. Journal of Catalysis, 2019, 374, 237-245.	3.1	37
22	Hole dynamic acceleration over CdSO nanoparticles for high-efficiency solar hydrogen production with urea photolysis. Journal of Materials Chemistry A, 2019, 7, 25650-25656.	5.2	6
23	Identification of few-layer ReS <sub>2</sub> as photo-electro integrated catalyst for hydrogen evolution. Nano Energy, 2018, 48, 337-344.	8.2	71
24	Enriching Hot Electrons via NIRâ€“Photonâ€“Excited Plasmon in WS <sub>2</sub> @Cu Hybrids for Fullâ€“Spectrum Solar Hydrogen Evolution. Advanced Functional Materials, 2018, 28, 1804055.	7.8	89
25	Self-assembly optimization of cadmium/molybdenum sulfide hybrids by cation coordination competition toward extraordinarily efficient photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 18396-18402.	5.2	22
26	Achieving half-metallicity in zigzag MoS <sub>2</sub> nanoribbon with a sulfur vacancy by edge passivation. Journal Physics D: Applied Physics, 2018, 51, 265005.	1.3	5
27	Integrating Semiconducting Catalyst of ReS <sub>2</sub> Nanosheets into P-Silicon Photocathode for Enhanced Solar Water Reduction. ACS Applied Materials & Interfaces, 2018, 10, 23074-23080.	4.0	30
28	Half-metallic carbon nitride nanosheets with micro grid mode resonance structure for efficient photocatalytic hydrogen evolution. Nature Communications, 2018, 9, 3366.	5.8	219
29	The indirectâ€“direct band gap tuning in armchair MoS <sub>2</sub> nanoribbon by edge passivation. Journal Physics D: Applied Physics, 2017, 50, 095102.	1.3	20
30	Interface Band Engineering Charge Transfer for 3D MoS <sub>2</sub> Photoanode to Boost Photoelectrochemical Water Splitting. ACS Sustainable Chemistry and Engineering, 2017, 5, 3829-3836.	3.2	51
31	Creating Carbonâ€“Oxygen Bonds over TiO <sub>2</sub> Nanofibers for Synergistic Benefits of Visibleâ€“Light Response and Charge Separation toward Photocatalysis. Advanced Materials Interfaces, 2017, 4, 1600795.	1.9	6
32	Surface states engineering carbon dots as multi-band light active sensitizers for ZnO nanowire array photoanode to boost solar water splitting. Carbon, 2017, 121, 201-208.	5.4	38
33	Three electron channels toward two types of active sites in MoS <sub>2</sub> @Pt nanosheets for hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 22654-22661.	5.2	42
34	Steering Photoelectrons Excited in Carbon Dots into Platinum Cluster Catalyst for Solarâ€“Driven Hydrogen Production. Advanced Science, 2017, 4, 1700273.	5.6	39
35	Transition-metal doping induces the transition of electronic and magnetic properties in armchair MoS <sub>2</sub> nanoribbons. Physical Chemistry Chemical Physics, 2017, 19, 24594-24604.	1.3	24
36	Coexistence of negative photoconductivity and hysteresis in semiconducting graphene. AIP Advances, 2016, 6, .	0.6	14

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37	Two-dimensional ZnO ultrathin nanosheets decorated with Au nanoparticles for effective photocatalysis. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	23
38	Efficient photon harvesting and charge collection in 3D porous RGO-TiO <sub>2</sub> photoanode for solar water splitting. <i>Materials and Design</i> , 2016, 101, 95-101.	3.3	24
39	Enriching Photoelectrons via Three Transition Channels in Amino-Conjugated Carbon Quantum Dots to Boost Photocatalytic Hydrogen Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14118-14124.	4.0	57
40	Constructing n-ZnO@Au heterogeneous nanorod arrays on p-Si substrate as efficient photocathode for water splitting. <i>Nanotechnology</i> , 2016, 27, 305403.	1.3	24
41	ZnO quantum dots arranged by hole scavenger groups for enhanced and stable photocatalytic hydrogen generation. <i>Materials Letters</i> , 2016, 165, 196-199.	1.3	10
42	Well-Steered Charge-Carrier Transfer in 3D Branched Cu <sub>2</sub> O/ZnO@Au Heterostructures for Efficient Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 26819-26827.	4.0	77
43	Self-assembled 3D ACF-rGO-TiO <sub>2</sub> composite as efficient and recyclable spongy adsorbent for organic dye removal. <i>Materials and Design</i> , 2015, 83, 522-527.	3.3	26
44	Dispersedly embedded loading of Fe <sub>3</sub> O <sub>4</sub> nanoparticles into graphene nanosheets for highly efficient and recyclable removal of heavy metal ions. <i>New Journal of Chemistry</i> , 2015, 39, 7355-7362.	1.4	30
45	Photogenerated electron reservoir in hetero-p-n CuO-ZnO nanocomposite device for visible-light-driven photocatalytic reduction of aqueous Cr(VI). <i>Journal of Materials Chemistry A</i> , 2015, 3, 1199-1207.	5.2	231
46	Room Temperature Ferromagnetism and Photoluminescence in Cu-Doped ZnO Nanocrystals. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 6012-6015.	0.9	5
47	High-performance deep ultraviolet photodetectors based on ZnO quantum dot assemblies. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	26
48	Manganese ion-assisted assembly of superparamagnetic graphene oxide microbowls. <i>Applied Physics Letters</i> , 2014, 104, 121602.	1.5	2
49	Resistive switching memories in MoS <sub>2</sub> nanosphere assemblies. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	62
50	Vertically aligned MoS <sub>2</sub> /MoO <sub>x</sub> heterojunction nanosheets for enhanced visible-light photocatalytic activity and photostability. <i>CrystEngComm</i> , 2014, 16, 9025-9032.	1.3	58
51	Photoanode Current of Large-Area MoS <sub>2</sub> Ultrathin Nanosheets with Vertically Mesh-Shaped Structure on Indium Tin Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5983-5987.	4.0	79
52	Photogenerated Carriers Transfer in Dye-Graphene-SnO <sub>2</sub> Composites for Highly Efficient Visible-Light Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 613-621.	4.0	122
53	Transparent SnO <sub>2</sub> QDs-based multifunctional glass for ultraviolet-blocking and enhanced hydrophobicity. <i>Materials Letters</i> , 2014, 128, 291-294.	1.3	10
54	Comparison on Photoluminescence and Magnetism between Two Kinds of Undoped ZnO Nanorods. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24549-24553.	1.5	44

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55	Localized Surface Plasmon Resonance-Enhanced Two-Photon Excited Ultraviolet Emission of Au-Decorated ZnO Nanorod Arrays. <i>Advanced Optical Materials</i> , 2013, 1, 940-945.	3.6	33
56	Transparent and UV-shielding ZnO@PMMA nanocomposite films. <i>Optical Materials</i> , 2013, 36, 169-172.	1.7	88
57	PEGME-bonded SnO <sub>2</sub> quantum dots for excellent photocatalytic activity. <i>RSC Advances</i> , 2013, 3, 20422.	1.7	19
58	Controllable fabrication and optical properties of Sn-doped ZnO hexagonal microdisk for whispering gallery mode microlaser. <i>APL Materials</i> , 2013, 1, .	2.2	18
59	Control mechanism behind broad fluorescence from violet to orange in ZnO quantum dots. <i>CrystEngComm</i> , 2013, 15, 977-981.	1.3	39
60	Variation of structural, optical and magnetic properties with Co-doping in Sn <sub>1-x</sub> Co <sub>x</sub> O <sub>2</sub> nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 327, 24-27.	1.0	35
61	Single ZnO Microrod Ultraviolet Photodetector with High Photocurrent Gain. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 9344-9348.	4.0	101
62	Brush-like SnO <sub>2</sub> /ZnO hierarchical nanostructure: Synthesis, characterization and application in UV photoresponse. <i>AIP Advances</i> , 2013, 3, .	0.6	24
63	Role of zinc vacancies in driving ferromagnetism in undoped ZnO granular films. <i>Europhysics Letters</i> , 2013, 101, 27009.	0.7	13
64	DEFECT-ORIGIN AND STABILITY OF VISIBLE EMISSION IN ZnO NANOPILLARS. <i>Functional Materials Letters</i> , 2012, 05, 1240001.	0.7	7
65	Structure evolution and optical properties of hierarchical ZnO micro/nanorods fabricated by a two-step growth method. <i>CrystEngComm</i> , 2012, 14, 2180.	1.3	4
66	Surface photoluminescence and magnetism in hydrothermally grown undoped ZnO nanorod arrays. <i>Applied Physics Letters</i> , 2012, 100, 172401.	1.5	41
67	Size Dependence of Defect-Induced Room Temperature Ferromagnetism in Undoped ZnO Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8813-8818.	1.5	201
68	Identification of visible emission from ZnO quantum dots: Excitation-dependence and size-dependence. <i>Journal of Applied Physics</i> , 2012, 111, 083521.	1.1	40
69	Evolutions of defects and blue-green emissions in ZnO microwhiskers fabricated by vapor-phase transport. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 858-862.	1.9	32
70	Excitation-dependent photoluminescence of ZnO microrods with MgO surface coating. <i>Materials Letters</i> , 2012, 82, 145-147.	1.3	6
71	Strain-induced magnetoresistance for novel strain sensors. <i>Journal of Applied Physics</i> , 2010, 108, 033916.	1.1	7
72	The cooling field and the exchange bias in ferromagnet/antiferromagnet bilayers. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	14