Xiaoyong Xu

List of Publications by Year in descending order

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72	2,923	30	53
papers	citations	h-index	g-index
73	73	73	4655
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Photogenerated electron reservoir in hetero-p–n CuO–ZnO nanocomposite device for visible-light-driven photocatalytic reduction of aqueous Cr(<scp>vi</scp>). Journal of Materials Chemistry A, 2015, 3, 1199-1207.	5.2	231
2	Half-metallic carbon nitride nanosheets with micro grid mode resonance structure for efficient photocatalytic hydrogen evolution. Nature Communications, 2018, 9, 3366.	5.8	219
3	Size Dependence of Defect-Induced Room Temperature Ferromagnetism in Undoped ZnO Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 8813-8818.	1.5	201
4	Photogenerated Carriers Transfer in Dye–Graphene–SnO ₂ Composites for Highly Efficient Visible-Light Photocatalysis. ACS Applied Materials & Interfaces, 2014, 6, 613-621.	4.0	122
5	Redox bifunctional activities with optical gain of Ni3S2 nanosheets edged with MoS2 for overall water splitting. Applied Catalysis B: Environmental, 2020, 268, 118435.	10.8	118
6	Oxygen vacancies activating surface reactivity to favor charge separation and transfer in nanoporous BiVO4 photoanodes. Applied Catalysis B: Environmental, 2021, 281, 119477.	10.8	116
7	Single ZnO Microrod Ultraviolet Photodetector with High Photocurrent Gain. ACS Applied Materials & amp; Interfaces, 2013, 5, 9344-9348.	4.0	101
8	Enriching Hot Electrons via NIRâ€Photonâ€Excited Plasmon in WS ₂ @Cu Hybrids for Fullâ€Spectrum Solar Hydrogen Evolution. Advanced Functional Materials, 2018, 28, 1804055.	7.8	89
9	Transparent and UV-shielding ZnO@PMMA nanocomposite films. Optical Materials, 2013, 36, 169-172.	1.7	88
10	Photoanode Current of Large–Area MoS ₂ Ultrathin Nanosheets with Vertically Mesh–Shaped Structure on Indium Tin Oxide. ACS Applied Materials & Diterfaces, 2014, 6, 5983-5987.	4.0	79
11	Well–Steered Charge–Carrier Transfer in 3D Branched CuxO/ZnO@Au Heterostructures for Efficient Photocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2015, 7, 26819-26827.	4.0	77
12	Identification of few-layer ReS2 as photo-electro integrated catalyst for hydrogen evolution. Nano Energy, 2018, 48, 337-344.	8.2	71
13	Resistive switching memories in MoS2 nanosphere assemblies. Applied Physics Letters, 2014, 104, .	1.5	62
14	Vertically aligned MoS ₂ /MoO _x heterojunction nanosheets for enhanced visible-light photocatalytic activity and photostability. CrystEngComm, 2014, 16, 9025-9032.	1.3	58
15	Enriching Photoelectrons via Three Transition Channels in Amino-Conjugated Carbon Quantum Dots to Boost Photocatalytic Hydrogen Generation. ACS Applied Materials & Diterfaces, 2016, 8, 14118-14124.	4.0	57
16	Transition metal doping activated basal-plane catalytic activity of two-dimensional 1T'-ReS ₂ for hydrogen evolution reaction: a first-principles calculation study. Nanoscale, 2019, 11, 10402-10409.	2.8	56
17	Interface Band Engineering Charge Transfer for 3D MoS ₂ Photoanode to Boost Photoelectrochemical Water Splitting. ACS Sustainable Chemistry and Engineering, 2017, 5, 3829-3836.	3.2	51
18	Construction of Active Orbital via Single-Atom Cobalt Anchoring on the Surface of 1T-MoS ₂ Basal Plane toward Efficient Hydrogen Evolution. ACS Applied Energy Materials, 2020, 3, 2315-2322.	2.5	50

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19	Comparison on Photoluminescence and Magnetism between Two Kinds of Undoped ZnO Nanorods. Journal of Physical Chemistry C, 2013, 117, 24549-24553.	1.5	44
20	Three electron channels toward two types of active sites in MoS ₂ @Pt nanosheets for hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 22654-22661.	5.2	42
21	Surface photoluminescence and magnetism in hydrothermally grown undoped ZnO nanorod arrays. Applied Physics Letters, 2012, 100, 172401.	1.5	41
22	Identification of visible emission from ZnO quantum dots: Excitation-dependence and size-dependence. Journal of Applied Physics, 2012, 111, 083521.	1.1	40
23	Control mechanism behind broad fluorescence from violet to orange in ZnO quantum dots. CrystEngComm, 2013, 15, 977-981.	1.3	39
24	Steering Photoelectrons Excited in Carbon Dots into Platinum Cluster Catalyst for Solarâ€Driven Hydrogen Production. Advanced Science, 2017, 4, 1700273.	5.6	39
25	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
26	Metallic molybdenum sulfide nanodots as platinum-alternative co-catalysts for photocatalytic hydrogen evolution. Journal of Catalysis, 2019, 374, 237-245.	3.1	37
27	Variation of structural, optical and magnetic properties with Co-doping in Sn1â^'xCoxO2 nanoparticles. Journal of Magnetism and Magnetic Materials, 2013, 327, 24-27.	1.0	35
28	Localized Surface Plasmon Resonanceâ€Enhanced Twoâ€Photon Excited Ultraviolet Emission of Auâ€Decorated ZnO Nanorod Arrays. Advanced Optical Materials, 2013, 1, 940-945.	3.6	33
29	Evolutions of defects and blue–green emissions in ZnO microwhiskers fabricated by vapor-phase transport. Journal of Physics and Chemistry of Solids, 2012, 73, 858-862.	1.9	32
30	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
31	Dispersedly embedded loading of Fe ₃ O ₄ nanoparticles into graphene nanosheets for highly efficient and recyclable removal of heavy metal ions. New Journal of Chemistry, 2015, 39, 7355-7362.	1.4	30
32	Integrating Semiconducting Catalyst of ReS2 Nanosheets into P-Silicon Photocathode for Enhanced Solar Water Reduction. ACS Applied Materials & Solar Water Reduction. ACS Applied Materials & Solar Water Reduction.	4.0	30
33	Engineering Selfâ€Reconstruction via Flexible Components in Layered Double Hydroxides for Superiorâ€Evolving Performance. Small, 2021, 17, e2101671.	5.2	30
34	MoS ₂ Nanostructures with the 1T Phase for Electromagnetic Wave Absorption. ACS Applied Nano Materials, 2021, 4, 11042-11051.	2.4	29
35	High-performance deep ultraviolet photodetectors based on ZnO quantum dot assemblies. Journal of Applied Physics, 2014, 116, .	1.1	26
36	Self-assembled 3D ACF–rGO–TiO2 composite as efficient and recyclable spongy adsorbent for organic dye removal. Materials and Design, 2015, 83, 522-527.	3.3	26

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37	Brush-like SnO2/ZnO hierarchical nanostructure: Synthesis, characterization and application in UV photoresponse. AIP Advances, $2013, 3, .$	0.6	24
38	Efficient photon harvesting and charge collection in 3D porous RGO-TiO2 photoanode for solar water splitting. Materials and Design, 2016, 101, 95-101.	3.3	24
39	Constructing n-ZnO@Au heterogeneous nanorod arrays on p-Si substrate as efficient photocathode for water splitting. Nanotechnology, 2016, 27, 305403.	1.3	24
40	Transition-metal doping induces the transition of electronic and magnetic properties in armchair MoS ₂ nanoribbons. Physical Chemistry Chemical Physics, 2017, 19, 24594-24604.	1.3	24
41	Two-dimensional ZnO ultrathin nanosheets decorated with Au nanoparticles for effective photocatalysis. Journal of Applied Physics, 2016, 120, .	1.1	23
42	Engineering Interfaces to Steer Hole Dynamics of BiVO ₄ Photoanodes for Solar Water Oxidation. Solar Rrl, 2019, 3, 1900115.	3.1	23
43	Refined Z-scheme charge transfer in facet-selective BiVO4/Au/CdS heterostructure for solar overall water splitting. International Journal of Hydrogen Energy, 2021, 46, 8531-8538.	3.8	23
44	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
45	The indirect–direct band gap tuning in armchair MoS ₂ nanoribbon by edge passivation. Journal Physics D: Applied Physics, 2017, 50, 095102.	1.3	20
46	PEGME-bonded SnO2 quantum dots for excellent photocatalytic activity. RSC Advances, 2013, 3, 20422.	1.7	19
47	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
48	Controllable fabrication and optical properties of Sn-doped ZnO hexagonal microdisk for whispering gallery mode microlaser. APL Materials, 2013, 1, .	2.2	18
49	Role of exchange splitting and ligand-field splitting in tuning the magnetic anisotropy of an individual iridium atom on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ta</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>	1.1	17
50	The cooling field and the exchange bias in ferromagnet/antiferromagnet bilayers. Journal of Applied Physics, 2009, 106, .	1.1	14
51	Coexistence of negative photoconductivity and hysteresis in semiconducting graphene. AIP Advances, 2016, 6, .	0.6	14
52	Role of zinc vacancies in driving ferromagnetism in undoped ZnO granular films. Europhysics Letters, 2013, 101, 27009.	0.7	13
53	Organic Dye Molecules Sensitization-Enhanced Photocatalytic Water-Splitting Activity of MoS ₂ from First-Principles Calculations. Journal of Physical Chemistry C, 2020, 124, 6580-6587.	1.5	12
54	Plasmonic Cocatalyst with Electric and Thermal Stimuli Boots Solar Hydrogen Evolution. Solar Rrl, 2020, 4, 2000094.	3.1	11

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55	Transparent SnO2 QDs-based multifunctional glass for ultraviolet-blocking and enhanced hydrophobicity. Materials Letters, 2014, 128, 291-294.	1.3	10
56	ZnO quantum dots arranged by hole scavenger groups for enhanced and stable photocatalyic hydrogen generation. Materials Letters, 2016, 165, 196-199.	1.3	10
57	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
58	Chameleonâ€Like Reconstruction on Redox Catalysts Adaptive to Alkali Water Electrolysis. Small, 2022, 18, .	5.2	9
59	Functionalization of two-dimensional 1T′-ReS ₂ 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
60	Strain-induced magnetoresistance for novel strain sensors. Journal of Applied Physics, 2010, 108, 033916.	1.1	7
61	DEFECT-ORIGIN AND STABILITY OF VISIBLE EMISSION IN ZnO NANOPILLARS. Functional Materials Letters, 2012, 05, 1240001.	0.7	7
62	Excitation-dependent photoluminescence of ZnO microrods with MgO surface coating. Materials Letters, 2012, 82, 145-147.	1.3	6
63	Creating Carbon–Oxygen Bonds over TiO ₂ Nanofibers for Synergistic Benefits of Visibleâ€Light Response and Charge Separation toward Photocatalysis. Advanced Materials Interfaces, 2017, 4, 1600795.	1.9	6
64	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
65	Room Temperature Ferromagnetism and Photoluminescence in Cu-Doped ZnO Nanocrystals. Journal of Nanoscience and Nanotechnology, 2014, 14, 6012-6015.	0.9	5
66	Achieving half-metallicity in zigzag MoS ₂ nanoribbon with a sulfur vacancy by edge passivation. Journal Physics D: Applied Physics, 2018, 51, 265005.	1.3	5
67	The mechanism of enhanced photocatalytic activity for water-splitting of ReS ₂ by strain and electric field engineering. RSC Advances, 2021, 11, 23055-23063.	1.7	5
68	Structure evolution and optical properties of hierarchical ZnO micro/nanorods fabricated by a two-step growth method. CrystEngComm, 2012, 14, 2180.	1.3	4
69	Plasmonic Cocatalyst with Electric and Thermal Stimuli Boots Solar Hydrogen Evolution. Solar Rrl, 2020, 4, 2070062.	3.1	4
70	Pronounced Linewidth Narrowing of Vertical Metallic Split-Ring Resonators via Strong Coupling with Metal Surface. Nanomaterials, 2021, 11, 2194.	1.9	4
71	Incorporation of active phase in porous MoS2 for enhanced hydrogen evolution reaction. Journal of Materials Science: Materials in Electronics, 2020, 31, 4121-4128.	1.1	3
72	Manganese ion-assisted assembly of superparamagnetic graphene oxide microbowls. Applied Physics Letters, 2014, 104, 121602.	1.5	2