

# Xuemei Zhou

## List of Publications by Citations

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51  
papers

2,851  
citations

28  
h-index

53  
g-index

55  
ext. papers

3,167  
ext. citations

8.3  
avg, IF

5.29  
L-index

#	Paper	IF	Citations
51	Surface plasmon resonance-mediated photocatalysis by noble metal-based composites under visible light. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 21337		412
50	Facet-mediated photodegradation of organic dye over hematite architectures by visible light. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 178-82	16.4	231
49	Visible Light Induced Photocatalytic Degradation of Rhodamine B on One-Dimensional Iron Oxide Particles. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 17051-17061	3.8	196
48	Photocatalysis with TiO <sub>2</sub> Nanotubes: Colorful Reactivity and Designing Site-Specific Photocatalytic Centers into TiO <sub>2</sub> Nanotubes. <i>ACS Catalysis</i> , <b>2017</b> , 7, 3210-3235	13.1	180
47	"Black" TiO <sub>2</sub> Nanotubes Formed by High-Energy Proton Implantation Show Noble-Metal-co-Catalyst Free Photocatalytic H <sub>2</sub> -Evolution. <i>Nano Letters</i> , <b>2015</b> , 15, 6815-20	11.5	152
46	Anodic TiO <sub>2</sub> nanotube layers: Why does self-organized growth occur? A mini review. <i>Electrochemistry Communications</i> , <b>2014</b> , 46, 157-162	5.1	135
45	Enhancing photocatalytic activity of one-dimensional KNbO <sub>3</sub> nanowires by Au nanoparticles under ultraviolet and visible-light. <i>Nanoscale</i> , <b>2011</b> , 3, 5161	7.7	114
44	TiO <sub>2</sub> Nanotubes: Nitrogen-Ion Implantation at Low Dose Provides Noble-Metal-Free Photocatalytic H <sub>2</sub> -Evolution Activity. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 3763-7	16.4	102
43	Strongly Enhanced Water Splitting Performance of Ta <sub>3</sub> N <sub>5</sub> Nanotube Photoanodes with Subnitrides. <i>Advanced Materials</i> , <b>2016</b> , 28, 2432-8	24	92
42	Aligned MoO <sub>x</sub> /MoS <sub>2</sub> Core-Shell Nanotubular Structures with a High Density of Reactive Sites Based on Self-Ordered Anodic Molybdenum Oxide Nanotubes. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 12252-6	16.4	83
41	Hydrogenated anatase: strong photocatalytic dihydrogen evolution without the use of a co-catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 14201-5	16.4	78
40	Origin of tunable photocatalytic selectivity of well-defined Fe <sub>2</sub> O <sub>3</sub> nanocrystals. <i>Small</i> , <b>2014</b> , 10, 674-9	11	75
39	Visible-Light-Triggered Drug Release from TiO <sub>2</sub> Nanotube Arrays: A Controllable Antibacterial Platform. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 593-7	16.4	72
38	Crystalline phase-dependent photocatalytic water splitting for hydrogen generation on KNbO <sub>3</sub> submicro-crystals. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 3554-3561	6.7	64
37	Facet-Mediated Photodegradation of Organic Dye over Hematite Architectures by Visible Light. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 182-186	3.6	58
36	Graphitic C <sub>3</sub> N <sub>4</sub> -Sensitized TiO <sub>2</sub> Nanotube Layers: A Visible-Light Activated Efficient Metal-Free Antimicrobial Platform. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 3947-51	4.8	57
35	Spaced TiO <sub>2</sub> nanotube arrays allow for a high performance hierarchical supercapacitor structure. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 1895-1901	13	52

34	Noble-Metal-Free Photocatalytic Hydrogen Evolution Activity: The Impact of Ball Milling Anatase Nanopowders with TiH. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604747	24	51
33	Black Magic in Gray Titania: Noble-Metal-Free Photocatalytic H Evolution from Hydrogenated Anatase. <i>ChemSusChem</i> , <b>2017</b> , 10, 62-67	8.3	47
32	Plasmon-enhanced photoelectrochemical water splitting using au nanoparticles decorated on hematite nanoflake arrays. <i>ChemSusChem</i> , <b>2015</b> , 8, 618-22	8.3	46
31	Carbon cladded TiO2 nanotubes: fabrication and use in 3D-RuO2 based supercapacitors. <i>Chemical Communications</i> , <b>2015</b> , 51, 7614-7	5.8	38
30	Enhanced Charge Transport in Tantalum Nitride Nanotube Photoanodes for Solar Water Splitting. <i>ChemSusChem</i> , <b>2015</b> , 8, 2615-20	8.3	38
29	C/N Vacancy Co-Enhanced Visible-Light-Driven Hydrogen Evolution of g-C3N4 Nanosheets Through Controlled He+ Ion Irradiation. <i>Solar Rrl</i> , <b>2019</b> , 3, 1800298	7.1	37
28	Intrinsically Activated SrTiO: Photocatalytic H Evolution from Neutral Aqueous Methanol Solution in the Absence of Any Noble Metal Cocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 29532-29542	8.5	32
27	Ar+-ion bombardment of TiO2 nanotubes creates co-catalytic effect for photocatalytic open circuit hydrogen evolution. <i>Electrochemistry Communications</i> , <b>2014</b> , 49, 60-64	5.1	31
26	Hydrogenated Anatase: Strong Photocatalytic Dihydrogen Evolution without the Use of a Co-Catalyst. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 14425-14429	3.6	31
25	Stable Co-Catalyst-Free Photocatalytic H2 Evolution From Oxidized Titanium Nitride Nanopowders. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 13385-9	16.4	31
24	Thin MoS2 on TiO2 nanotube layers: An efficient co-catalyst/harvesting system for photocatalytic H2 evolution. <i>Electrochemistry Communications</i> , <b>2016</b> , 73, 33-37	5.1	30
23	Magn $\eta$ -Phases in Anatase Strongly Promote Cocatalyst-Free Photocatalytic Hydrogen Evolution. <i>ACS Catalysis</i> , <b>2019</b> , 9, 3627-3632	13.1	27
22	Nanoporous AuPt and AuPtAg alloy co-catalysts formed by dewetting/dealloying on an ordered TiO2 nanotube surface lead to significantly enhanced photocatalytic H2 generation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 13599-13606	13	26
21	Black and white anatase, rutile and mixed forms: band-edges and photocatalytic activity. <i>Chemical Communications</i> , <b>2019</b> , 55, 533-536	5.8	25
20	Self-Enhancing H Evolution from TiO Nanostructures under Illumination. <i>ChemSusChem</i> , <b>2019</b> , 12, 1900-1905	10.9	25
19	Catalytic activity of gold nanoparticles supported on KNbO3 microcubes. <i>Catalysis Today</i> , <b>2014</b> , 224, 140-146	5.3	24
18	TiO2 Nanotubes: Nitrogen-Ion Implantation at Low Dose Provides Noble-Metal-Free Photocatalytic H2-Evolution Activity. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 3827-3831	3.6	22
17	Pt-Decorated g-CN/TiO Nanotube Arrays with Enhanced Visible-Light Photocatalytic Activity for H Evolution. <i>ChemistryOpen</i> , <b>2016</b> , 5, 197-200	2.3	22

16	Straight and Branched Goethite Topology by Oriented Attachment at High pH. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 504-509	3.5	20
15	Visible-Light-Triggered Drug Release from TiO <sub>2</sub> Nanotube Arrays: A Controllable Antibacterial Platform. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 603-607	3.6	18
14	Pt-Ligand single-atom catalysts: tuning activity by oxide support defect density. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 3353-3365	5.5	15
13	Carbon-Decorated TiO <sub>2</sub> Nanotube Membranes: A Renewable Nanofilter for Charge-Selective Enrichment of Proteins. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 21997-2004	9.5	15
12	Molybdenum dichalcogenide nanotube arrays for hydrogen-evolution-reaction catalysis: Synergistic effects of sulfur and selenium in a core-shell tube wall. <i>Electrochemistry Communications</i> , <b>2017</b> , 82, 112-116	5.1	8
11	Anisotropic growth of multi-twinned goethite particles by oriented aggregation. <i>CrystEngComm</i> , <b>2010</b> , 12, 4007	3.3	7
10	Aligned MoO <sub>x</sub> /MoS <sub>2</sub> Core-Shell Nanotubular Structures with a High Density of Reactive Sites Based on Self-Ordered Anodic Molybdenum Oxide Nanotubes. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 12440-12444	3.6	7
9	Ligand-coordinated Ir single-atom catalysts stabilized on oxide supports for ethylene hydrogenation and their evolution under a reductive atmosphere. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 2081-2093	5.5	6
8	Sulfur and Ti co-Doping of TiO Nanotubes Enhance Photocatalytic H Evolution Without the Use of Any co-catalyst. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 2724-2730	4.5	5
7	Electrochemically Faceted Bamboo-type TiO <sub>2</sub> Nanotubes Provide Enhanced Open-Circuit Hydrogen Evolution. <i>ChemElectroChem</i> , <b>2019</b> , 6, 114-120	4.3	5
6	Tuning Ligand-Coordinated Single Metal Atoms on TiO and their Dynamic Response during Hydrogenation Catalysis. <i>ChemSusChem</i> , <b>2021</b> , 14, 3825-3837	8.3	3
5	Stable Co-Catalyst-Free Photocatalytic H <sub>2</sub> Evolution From Oxidized Titanium Nitride Nanopowders. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 13583-13587	3.6	2
4	Nanostructured Titanium Implant Surface Facilitating Osseointegration from Protein Adsorption to Osteogenesis: The Example of TiO NTAs.. <i>International Journal of Nanomedicine</i> , <b>2022</b> , 17, 1865-1879	7.3	2
3	Tuning Ligand-Coordinated Single Metal Atoms on TiO and their Dynamic Response during Hydrogenation Catalysis. <i>ChemSusChem</i> , <b>2021</b> , 14, 3635	8.3	1
2	C/N Vacancy Co-Enhanced Visible-Light-Driven Hydrogen Evolution of g-C <sub>3</sub> N <sub>4</sub> Nanosheets Through Controlled He <sup>+</sup> Ion Irradiation (Solar RRL 40019). <i>Solar Rrl</i> , <b>2019</b> , 3, 1970043	7.1	0
1	One-dimensional TiO <sub>2</sub> nanotube-based photocatalysts: enhanced performance by site-selective decoration. <i>Interface Science and Technology</i> , <b>2020</b> , 31, 231-264	2.3	