

Xuemei Zhou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Nanostructured Titanium Implant Surface Facilitating Osseointegration from Protein Adsorption to Osteogenesis: The Example of TiO NTAs.. <i>International Journal of Nanomedicine</i> , 2022 , 17, 1865-1879	7.3	2
50	Tuning Ligand-Coordinated Single Metal Atoms on TiO and their Dynamic Response during Hydrogenation Catalysis. <i>ChemSusChem</i> , 2021 , 14, 3825-3837	8.3	3
49	Tuning Ligand-Coordinated Single Metal Atoms on TiO and their Dynamic Response during Hydrogenation Catalysis. <i>ChemSusChem</i> , 2021 , 14, 3635	8.3	1
48	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> , 2021 , 11, 2081-2093	5.5	6
47	Pt-Ligand single-atom catalysts: tuning activity by oxide support defect density. <i>Catalysis Science and Technology</i> , 2020 , 10, 3353-3365	5.5	15
46	One-dimensional TiO ₂ nanotubeBased photocatalysts: enhanced performance by site-selective decoration. <i>Interface Science and Technology</i> , 2020 , 31, 231-264	2.3	
45	Black and white anatase, rutile and mixed forms: band-edges and photocatalytic activity. <i>Chemical Communications</i> , 2019 , 55, 533-536	5.8	25
44	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> , 2019 , 14, 2724-2730	4.5	5
43	C/N Vacancy Co-Enhanced Visible-Light-Driven Hydrogen Evolution of g-C ₃ N ₄ Nanosheets Through Controlled He ⁺ Ion Irradiation (Solar RRL 40019). <i>Solar Rrl</i> , 2019 , 3, 1970043	7.1	0
42	Magn ²⁺ -Phases in Anatase Strongly Promote Cocatalyst-Free Photocatalytic Hydrogen Evolution. <i>ACS Catalysis</i> , 2019 , 9, 3627-3632	13.1	27
41	Self-Enhancing H Evolution from TiO Nanostructures under Illumination. <i>ChemSusChem</i> , 2019 , 12, 1900-1905	13.1	25
40	Electrochemically Faceted Bamboo-type TiO ₂ Nanotubes Provide Enhanced Open-Circuit Hydrogen Evolution. <i>ChemElectroChem</i> , 2019 , 6, 114-120	4.3	5
39	C/N Vacancy Co-Enhanced Visible-Light-Driven Hydrogen Evolution of g-C ₃ N ₄ Nanosheets Through Controlled He ⁺ Ion Irradiation. <i>Solar Rrl</i> , 2019 , 3, 1800298	7.1	37
38	Intrinsically Activated SrTiO: Photocatalytic H Evolution from Neutral Aqueous Methanol Solution in the Absence of Any Noble Metal Cocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29532-29542	8.5	32
37	Nanoporous AuPt and AuPtAg alloy co-catalysts formed by dewettingDealloying on an ordered TiO ₂ nanotube surface lead to significantly enhanced photocatalytic H ₂ generation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13599-13606	13	26
36	Photocatalysis with TiO ₂ Nanotubes: ColorfulReactivity and Designing Site-Specific Photocatalytic Centers into TiO ₂ Nanotubes. <i>ACS Catalysis</i> , 2017 , 7, 3210-3235	13.1	180
35	Black Magic in Gray Titania: Noble-Metal-Free Photocatalytic H Evolution from Hydrogenated Anatase. <i>ChemSusChem</i> , 2017 , 10, 62-67	8.3	47

34	Spaced TiO ₂ nanotube arrays allow for a high performance hierarchical supercapacitor structure. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1895-1901	13	52
33	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> , 2017 , 82, 112-116	5.1	8
32	Noble-Metal-Free Photocatalytic Hydrogen Evolution Activity: The Impact of Ball Milling Anatase Nanopowders with TiH. <i>Advanced Materials</i> , 2017 , 29, 1604747	24	51
31	Carbon-Decorated TiO ₂ Nanotube Membranes: A Renewable Nanofilter for Charge-Selective Enrichment of Proteins. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21997-2004	9.5	15
30	Thin MoS ₂ on TiO ₂ nanotube layers: An efficient co-catalyst/harvesting system for photocatalytic H ₂ evolution. <i>Electrochemistry Communications</i> , 2016 , 73, 33-37	5.1	30
29	Visible-Light-Triggered Drug Release from TiO ₂ Nanotube Arrays: A Controllable Antibacterial Platform. <i>Angewandte Chemie</i> , 2016 , 128, 603-607	3.6	18
28	TiO ₂ Nanotubes: Nitrogen-Ion Implantation at Low Dose Provides Noble-Metal-Free Photocatalytic H ₂ -Evolution Activity. <i>Angewandte Chemie</i> , 2016 , 128, 3827-3831	3.6	22
27	Visible-Light-Triggered Drug Release from TiO ₂ Nanotube Arrays: A Controllable Antibacterial Platform. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 593-7	16.4	72
26	TiO ₂ Nanotubes: Nitrogen-Ion Implantation at Low Dose Provides Noble-Metal-Free Photocatalytic H ₂ -Evolution Activity. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3763-7	16.4	102
25	Graphitic C ₃ N ₄ -Sensitized TiO ₂ Nanotube Layers: A Visible-Light Activated Efficient Metal-Free Antimicrobial Platform. <i>Chemistry - A European Journal</i> , 2016 , 22, 3947-51	4.8	57
24	Strongly Enhanced Water Splitting Performance of Ta ₃ N ₅ Nanotube Photoanodes with Subnitrides. <i>Advanced Materials</i> , 2016 , 28, 2432-8	24	92
23	Aligned MoO _x /MoS ₂ 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> , 2016 , 55, 12252-6	16.4	83
22	Aligned MoO _x /MoS ₂ Core-Shell Nanotubular Structures with a High Density of Reactive Sites Based on Self-Ordered Anodic Molybdenum Oxide Nanotubes. <i>Angewandte Chemie</i> , 2016 , 128, 12440-12444	3.6	7
21	Pt-Decorated g-CN/TiO Nanotube Arrays with Enhanced Visible-Light Photocatalytic Activity for H ₂ Evolution. <i>ChemistryOpen</i> , 2016 , 5, 197-200	2.3	22
20	Carbon clad TiO ₂ nanotubes: fabrication and use in 3D-RuO ₂ based supercapacitors. <i>Chemical Communications</i> , 2015 , 51, 7614-7	5.8	38
19	"Black" TiO ₂ Nanotubes Formed by High-Energy Proton Implantation Show Noble-Metal-co-Catalyst Free Photocatalytic H ₂ -Evolution. <i>Nano Letters</i> , 2015 , 15, 6815-20	11.5	152
18	Stable Co-Catalyst-Free Photocatalytic H ₂ Evolution From Oxidized Titanium Nitride Nanopowders. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13385-9	16.4	31
17	Stable Co-Catalyst-Free Photocatalytic H ₂ Evolution From Oxidized Titanium Nitride Nanopowders. <i>Angewandte Chemie</i> , 2015 , 127, 13583-13587	3.6	2

16	Enhanced Charge Transport in Tantalum Nitride Nanotube Photoanodes for Solar Water Splitting. <i>ChemSusChem</i> , 2015 , 8, 2615-20	8.3	38
15	Plasmon-enhanced photoelectrochemical water splitting using Au nanoparticles decorated on hematite nanoflake arrays. <i>ChemSusChem</i> , 2015 , 8, 618-22	8.3	46
14	Catalytic activity of gold nanoparticles supported on KNbO ₃ microcubes. <i>Catalysis Today</i> , 2014 , 224, 140-146	5.3	24
13	Ar ⁺ -ion bombardment of TiO ₂ nanotubes creates co-catalytic effect for photocatalytic open circuit hydrogen evolution. <i>Electrochemistry Communications</i> , 2014 , 49, 60-64	5.1	31
12	Anodic TiO ₂ nanotube layers: Why does self-organized growth occur? A mini review. <i>Electrochemistry Communications</i> , 2014 , 46, 157-162	5.1	135
11	Hydrogenated Anatase: Strong Photocatalytic Dihydrogen Evolution without the Use of a Co-Catalyst. <i>Angewandte Chemie</i> , 2014 , 126, 14425-14429	3.6	31
10	Hydrogenated anatase: strong photocatalytic dihydrogen evolution without the use of a co-catalyst. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14201-5	16.4	78
9	Origin of tunable photocatalytic selectivity of well-defined Fe ₂ O ₃ nanocrystals. <i>Small</i> , 2014 , 10, 674-9	11	75
8	Crystalline phase-dependent photocatalytic water splitting for hydrogen generation on KNbO ₃ submicro-crystals. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 3554-3561	6.7	64
7	Facet-Mediated Photodegradation of Organic Dye over Hematite Architectures by Visible Light. <i>Angewandte Chemie</i> , 2012 , 124, 182-186	3.6	58
6	Facet-mediated photodegradation of organic dye over hematite architectures by visible light. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 178-82	16.4	231
5	Surface plasmon resonance-mediated photocatalysis by noble metal-based composites under visible light. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21337		412
4	Enhancing photocatalytic activity of one-dimensional KNbO ₃ nanowires by Au nanoparticles under ultraviolet and visible-light. <i>Nanoscale</i> , 2011 , 3, 5161	7.7	114
3	Visible Light Induced Photocatalytic Degradation of Rhodamine B on One-Dimensional Iron Oxide Particles. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17051-17061	3.8	196
2	Straight and Branched Goethite Topology by Oriented Attachment at High pH. <i>Crystal Growth and Design</i> , 2010 , 10, 504-509	3.5	20
1	Anisotropic growth of multi-twinned goethite particles by oriented aggregation. <i>CrystEngComm</i> , 2010 , 12, 4007	3.3	7