

# Wenguang Tu

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

9,301  
citations

94433

37  
h-index

161849

54  
g-index

55  
all docs

55  
docs citations

55  
times ranked

10794  
citing authors

#	ARTICLE	IF	CITATIONS
1	Host/Guest Nanostructured Photoanodes Integrated with Targeted Enhancement Strategies for Photoelectrochemical Water Splitting. <i>Advanced Science</i> , 2022, 9, e2103744.	11.2	31
2	Single Pd <sup>S</sup> Sites In Situ Coordinated on CdS Surface as Efficient Hydrogen Autotransfer Shuttles for Highly Selective Visible-Light-Driven <sup>N</sup> Coupling. <i>ACS Catalysis</i> , 2022, 12, 4481-4490.	11.2	28
3	New black indium oxide <sup>”</sup> tandem photothermal CO <sub>2</sub> -H <sub>2</sub> methanol selective catalyst. <i>Nature Communications</i> , 2022, 13, 1512.	12.8	47
4	Shedding light on <sup>CO<sub>2</sub></sup> : Catalytic synthesis of solar methanol. <i>EcoMat</i> , 2021, 3, e12078.	11.9	13
5	Single-Ni Sites Embedded in Multilayer Nitrogen-Doped Graphene Derived from Amino-Functionalized MOF for Highly Selective <sup>CO<sub>2</sub></sup> Electroreduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3792-3801.	6.7	24
6	Hollow InVO <sub>4</sub> Nanocuboid Assemblies toward Promoting Photocatalytic <sup>N<sub>2</sub></sup> Conversion Performance. <i>Advanced Materials</i> , 2021, 33, e2006780.	21.0	38
7	Manipulating Intermediates at the Au <sup>TiO<sub>2</sub></sup> Interface over InP Nanopillar Array for Photoelectrochemical <sup>CO<sub>2</sub></sup> Reduction. <i>ACS Catalysis</i> , 2021, 11, 11416-11428.	11.2	48
8	In Situ Determination of Polaron-Mediated Ultrafast Electron Trapping in Rutile TiO <sub>2</sub> Nanorod Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10815-10822.	4.6	14
9	Rational Synthesis of Amorphous Iron <sup>Nickel</sup> Phosphonates for Highly Efficient Photocatalytic Water Oxidation with Almost 100 <sup>%%</sup> Yield. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1171-1175.	13.8	32
10	Rational Synthesis of Amorphous Iron <sup>Nickel</sup> Phosphonates for Highly Efficient Photocatalytic Water Oxidation with Almost 100 <sup>%%</sup> Yield. <i>Angewandte Chemie</i> , 2020, 132, 1187-1191.	2.0	4
11	Isolated Ni single atoms in nitrogen doped ultrathin porous carbon templated from porous g-C <sub>3</sub> N <sub>4</sub> for high-performance CO <sub>2</sub> reduction. <i>Nano Energy</i> , 2020, 77, 105158.	16.0	83
12	Ultralow-temperature assisted synthesis of single platinum atoms anchored on carbon nanotubes for efficiently electrocatalytic acidic hydrogen evolution. <i>Journal of Energy Chemistry</i> , 2020, 51, 280-284.	12.9	84
13	Anchoring Active Pt <sup>2+</sup> /Pt <sup>0</sup> Hybrid Nanodots on g <sup>C<sub>3</sub>N<sub>4</sub></sup> Nitrogen Vacancies for Photocatalytic H <sub>2</sub> Evolution. <i>ChemSusChem</i> , 2019, 12, 2029-2034.	6.8	54
14	The pulsed laser-induced Schottky junction via in-situ forming Cd clusters on CdS surfaces toward efficient visible light-driven photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117967.	20.2	148
15	Isolated Square <sup>Planar</sup> Copper Center in Boron Imidazolate Nanocages for Photocatalytic Reduction of <sup>CO<sub>2</sub></sup> to CO. <i>Angewandte Chemie</i> , 2019, 131, 11878-11882.	2.0	32
16	Construction of hole <sup>transported</sup> MoO <sub>3</sub> coupled with CdS nanospheres for boosting photocatalytic performance via oxygen <sup>defects</sup> -mediated <sup>Z</sup> scheme charge transfer. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4780.	3.5	29
17	MOF-derived hierarchical hollow spheres composed of carbon-confined Ni nanoparticles for efficient <sup>CO<sub>2</sub></sup> methanation. <i>Catalysis Science and Technology</i> , 2019, 9, 731-738.	4.1	87
18	Isolated Square <sup>Planar</sup> Copper Center in Boron Imidazolate Nanocages for Photocatalytic Reduction of <sup>CO<sub>2</sub></sup> to CO. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11752-11756.	13.8	194

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19	Effects of composition faults in ternary metal chalcogenides (Zn In <sub>2</sub> S <sub>3</sub> +, x <sup>-</sup> = <sup>-</sup> 1 <sup>-</sup> 5) layered crystals for visible-light-driven catalytic hydrogen generation and carbon dioxide reduction. Applied Catalysis B: Environmental, 2019, 256, 117810.	20.2	82
20	Electrical promotion of spatially photoinduced charge separation via interfacial-built-in quasi-alloying effect in hierarchical Zn <sub>2</sub> In <sub>2</sub> S <sub>5</sub> /Ti <sub>3</sub> C <sub>2</sub> (O, OH) <sub>x</sub> hybrids toward efficient photocatalytic hydrogen evolution and environmental remediation. Applied Catalysis B: Environmental, 2019, 245, 290-301.	20.2	229
21	Tailored indium sulfide-based materials for solar-energy conversion and utilization. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2019, 38, 1-26.	11.6	127
22	Formation of quasi-core-shell In <sub>2</sub> S <sub>3</sub> /anatase TiO <sub>2</sub> @metallic Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> hybrids with favorable charge transfer channels for excellent visible-light-photocatalytic performance. Applied Catalysis B: Environmental, 2018, 233, 213-225.	20.2	297
23	Photogenerated charge transfer via interfacial internal electric field for significantly improved photocatalysis in direct Z-scheme oxygen-doped carbon nitrogen/CoAl-layered double hydroxide heterojunction. Applied Catalysis B: Environmental, 2018, 227, 530-540.	20.2	219
24	Template-Induced High-Crystalline g-C <sub>3</sub> N <sub>4</sub> Nanosheets for Enhanced Photocatalytic H <sub>2</sub> Evolution. ACS Energy Letters, 2018, 3, 514-519.	17.4	259
25	Quasi-polymeric construction of stable perovskite-type LaFeO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> heterostructured photocatalyst for improved Z-scheme photocatalytic activity via solid p-n heterojunction interfacial effect. Journal of Hazardous Materials, 2018, 347, 412-422.	12.4	296
26	Construction of hierarchical 2D-2D Zn <sub>3</sub> In <sub>2</sub> S <sub>6</sub> /fluorinated polymeric carbon nitride nanosheets photocatalyst for boosting photocatalytic degradation and hydrogen production performance. Applied Catalysis B: Environmental, 2018, 233, 58-69.	20.2	213
27	A Highly Efficient Oxygen Evolution Catalyst Consisting of Interconnected Nickel-Iron Layered Double Hydroxide and Carbon Nanodomains. Advanced Materials, 2018, 30, 1705106.	21.0	209
28	Premixed Stagnation Flame Synthesized TiO <sub>2</sub> Nanoparticles with Mixed Phases for Efficient Photocatalytic Hydrogen Generation. ACS Sustainable Chemistry and Engineering, 2018, 6, 14470-14479.	6.7	25
29	Amino-Assisted Anchoring of CsPbBr <sub>3</sub> Perovskite Quantum Dots on Porous g-C <sub>3</sub> N <sub>4</sub> for Enhanced Photocatalytic CO <sub>2</sub> Reduction. Angewandte Chemie, 2018, 130, 13758-13762.	2.0	172
30	Amino-Assisted Anchoring of CsPbBr <sub>3</sub> Perovskite Quantum Dots on Porous g-C <sub>3</sub> N <sub>4</sub> for Enhanced Photocatalytic CO <sub>2</sub> Reduction. Angewandte Chemie - International Edition, 2018, 57, 13570-13574.	13.8	432
31	Visible-light-driven removal of tetracycline antibiotics and reclamation of hydrogen energy from natural water matrices and wastewater by polymeric carbon nitride foam. Water Research, 2018, 144, 215-225.	11.3	481
32	Rational Design of Catalytic Centers in Crystalline Frameworks. Advanced Materials, 2018, 30, e1707582.	21.0	103
33	Nickel Nanoparticles Encapsulated in Few-Layer Nitrogen-Doped Graphene Derived from Metal-Organic Frameworks as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. Advanced Materials, 2017, 29, 1605957.	21.0	507
34	Highly Efficient Solar-Driven Photothermal Performance in Au-Carbon Core-Shell Nanospheres. Solar Rrl, 2017, 1, 1600032.	5.8	24
35	Construction of unique two-dimensional MoS <sub>2</sub> -TiO <sub>2</sub> hybrid nanojunctions: MoS <sub>2</sub> as a promising cost-effective cocatalyst toward improved photocatalytic reduction of CO <sub>2</sub> to methanol. Nanoscale, 2017, 9, 9065-9070.	5.6	134
36	Unique P <sub>1</sub> ;Co <sub>1</sub> ;N Surface Bonding States Constructed on g-C <sub>3</sub> N <sub>4</sub> Nanosheets for Drastically Enhanced Photocatalytic Activity of H <sub>2</sub> Evolution. Advanced Functional Materials, 2017, 27, 1604328.	14.9	329

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37	Constructing noble-metal-free Z-scheme photocatalytic overall water splitting systems using MoS <sub>2</sub> nanosheet modified CdS as a H <sub>2</sub> evolution photocatalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21205-21213.	10.3	92
38	Phosphonate-Based Metal-Organic Framework Derived Co-P-C Hybrid as an Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2017, 7, 6000-6007.	11.2	149
39	Investigating the Role of Tunable Nitrogen Vacancies in Graphitic Carbon Nitride Nanosheets for Efficient Visible-Light-Driven H <sub>2</sub> Evolution and CO <sub>2</sub> Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7260-7268.	6.7	322
40	Fabrication of Oxygen-Doped Double-Shelled GaN Hollow Spheres toward Efficient Photoreduction of CO <sub>2</sub> . <i>Particle and Particle Systems Characterization</i> , 2016, 33, 583-588.	2.3	13
41	Photocatalytic reduction of CO <sub>2</sub> over Ag/TiO <sub>2</sub> nanocomposites prepared with a simple and rapid silver mirror method. <i>Nanoscale</i> , 2016, 8, 11870-11874.	5.6	139
42	Microstructure modulation of the CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> layer in perovskite solar cells by 2-propanol pre-wetting and annealing in a spray-assisted solution process. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11372-11380.	10.3	17
43	State-of-the-Art Progress in Diverse Heterostructured Photocatalysts toward Promoting Photocatalytic Performance. <i>Advanced Functional Materials</i> , 2015, 25, 998-1013.	14.9	706
44	Au@TiO <sub>2</sub> yolk-shell hollow spheres for plasmon-induced photocatalytic reduction of CO <sub>2</sub> to solar fuel via a local electromagnetic field. <i>Nanoscale</i> , 2015, 7, 14232-14236.	5.6	153
45	Hollow spheres consisting of Ti <sub>0.91</sub> O <sub>2</sub> /CdS nanohybrids for CO <sub>2</sub> photofixation. <i>Chemical Communications</i> , 2015, 51, 13354-13357.	4.1	71
46	Double-shelled plasmonic Ag-TiO <sub>2</sub> hollow spheres toward visible light-active photocatalytic conversion of CO <sub>2</sub> into solar fuel. <i>APL Materials</i> , 2015, 3, .	5.1	59
47	Photoconversion: Photocatalytic Conversion of CO <sub>2</sub> into Renewable Hydrocarbon Fuels: State-of-the-Art Accomplishment, Challenges, and Prospects (Adv. Mater. 27/2014). <i>Advanced Materials</i> , 2014, 26, 4598-4598.	21.0	7
48	Formation of 3D interconnectively macro/mesoporous TiO <sub>2</sub> sponges through gelation of lotus root starch toward CO <sub>2</sub> photoreduction into hydrocarbon fuels. <i>RSC Advances</i> , 2014, 4, 43172-43177.	3.6	15
49	Photocatalytic Conversion of CO <sub>2</sub> into Renewable Hydrocarbon Fuels: State-of-the-Art Accomplishment, Challenges, and Prospects. <i>Advanced Materials</i> , 2014, 26, 4607-4626.	21.0	1,319
50	An In Situ Simultaneous Reduction-Hydrolysis Technique for Fabrication of TiO <sub>2</sub> -Graphene 2D Sandwich-Like Hybrid Nanosheets: Graphene-Promoted Selectivity of Photocatalytic-Driven Hydrogenation and Coupling of CO <sub>2</sub> into Methane and Ethane. <i>Advanced Functional Materials</i> , 2013, 23, 1743-1749.	14.9	357
51	Versatile Graphene-Promoting Photocatalytic Performance of Semiconductors: Basic Principles, Synthesis, Solar Energy Conversion, and Environmental Applications. <i>Advanced Functional Materials</i> , 2013, 23, 4996-5008.	14.9	335
52	Direct Growth of Fe <sub>2</sub> V <sub>4</sub> O <sub>13</sub> Nanoribbons on a Stainless Steel Mesh for Visible-Light Photoreduction of CO <sub>2</sub> into Renewable Hydrocarbon Fuel and Degradation of Gaseous Isopropyl Alcohol. <i>ChemPlusChem</i> , 2013, 78, 274-278.	2.8	41
53	Instant, template-free and fluorine-free synthesis of TiO <sub>2</sub> nanotube arrays with a room-temperature solid-liquid arc discharge technique. <i>CrystEngComm</i> , 2012, 14, 7583.	2.6	5
54	Robust Hollow Spheres Consisting of Alternating Titania Nanosheets and Graphene Nanosheets with High Photocatalytic Activity for CO <sub>2</sub> Conversion into Renewable Fuels. <i>Advanced Functional Materials</i> , 2012, 22, 1215-1221.	14.9	373