

# Guohui Tian

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2167089/publications.pdf>

Version: 2024-02-01

80  
papers

6,287  
citations

87888

38  
h-index

64796

79  
g-index

81  
all docs

81  
docs citations

81  
times ranked

7908  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecule Self-Assembly Synthesis of Porous Few-Layer Carbon Nitride for Highly Efficient Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2019, 141, 2508-2515.	13.7	685
2	Well-Ordered Large-Pore Mesoporous Anatase TiO <sub>2</sub> with Remarkably High Thermal Stability and Improved Crystallinity: Preparation, Characterization, and Photocatalytic Performance. <i>Advanced Functional Materials</i> , 2011, 21, 1922-1930.	14.9	431
3	Facile solvothermal synthesis of hierarchical flower-like Bi <sub>2</sub> MoO <sub>6</sub> hollow spheres as high performance visible-light driven photocatalysts. <i>Journal of Materials Chemistry</i> , 2011, 21, 887-892.	6.7	427
4	Preparation and Characterization of Stable Biphasic TiO <sub>2</sub> Photocatalyst with High Crystallinity, Large Surface Area, and Enhanced Photoactivity. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3083-3089.	3.1	288
5	3D hierarchical flower-like TiO <sub>2</sub> nanostructure: morphology control and its photocatalytic property. <i>CrystEngComm</i> , 2011, 13, 2994.	2.6	237
6	Facile strategy for controllable synthesis of stable mesoporous black TiO <sub>2</sub> hollow spheres with efficient solar-driven photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7495-7502.	10.3	198
7	NiSe@Ni <sub>0.85</sub> Se Heterostructure Nanoflake Arrays on Carbon Paper as Efficient Electrocatalysts for Overall Water Splitting. <i>Small</i> , 2018, 14, e1800763.	10.0	185
8	Hierarchical Core-Shell Carbon Nanofiber@ZnIn <sub>2</sub> S <sub>4</sub> Composites for Enhanced Hydrogen Evolution Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13841-13849.	8.0	179
9	Facile preparation of porous NiTiO <sub>3</sub> nanorods with enhanced visible-light-driven photocatalytic performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 16471.	6.7	176
10	Cubic quantum dot/hexagonal microsphere ZnIn <sub>2</sub> S <sub>4</sub> heterophase junctions for exceptional visible-light-driven photocatalytic H <sub>2</sub> evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8451-8460.	10.3	176
11	Synthesis and photocatalytic activity of stable nanocrystalline TiO <sub>2</sub> with high crystallinity and large surface area. <i>Journal of Hazardous Materials</i> , 2009, 161, 1122-1130.	12.4	172
12	Facile synthesis of sheet-like ZnO assembly composed of small ZnO particles for highly efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5700.	10.3	170
13	Surface oxygen vacancy defect-promoted electron-hole separation for porous defective ZnO hexagonal plates and enhanced solar-driven photocatalytic performance. <i>Chemical Engineering Journal</i> , 2020, 379, 122295.	12.7	170
14	Carbothermal synthesis of ordered mesoporous carbon-supported nano zero-valent iron with enhanced stability and activity for hexavalent chromium reduction. <i>Journal of Hazardous Materials</i> , 2016, 309, 249-258.	12.4	131
15	Hierarchical composites of TiO <sub>2</sub> nanowire arrays on reduced graphene oxide nanosheets with enhanced photocatalytic hydrogen evolution performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4366-4374.	10.3	112
16	Growth rate controlled synthesis of hierarchical Bi <sub>2</sub> S <sub>3</sub> /In <sub>2</sub> S <sub>3</sub> core/shell microspheres with enhanced photocatalytic activity. <i>Scientific Reports</i> , 2014, 4, 4027.	3.3	108
17	Hierarchical CuS hollow nanospheres and their structure-enhanced visible light photocatalytic properties. <i>CrystEngComm</i> , 2013, 15, 5144.	2.6	106
18	Hierarchical flake-like Bi <sub>2</sub> MoO <sub>6</sub> /TiO <sub>2</sub> bilayer films for visible-light-induced self-cleaning applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6961.	10.3	102

#	ARTICLE	IF	CITATIONS
19	Composites of small Ag clusters confined in the channels of well-ordered mesoporous anatase TiO <sub>2</sub> and their excellent solar-light-driven photocatalytic performance. Nano Research, 2014, 7, 731-742.	10.4	102
20	Self-floating amphiphilic black TiO <sub>2</sub> foams with 3D macro-mesoporous architectures as efficient solar-driven photocatalysts. Applied Catalysis B: Environmental, 2017, 206, 336-343.	20.2	102
21	Enhanced photocatalytic activity of S-doped TiO <sub>2</sub> @ZrO <sub>2</sub> nanoparticles under visible-light irradiation. Journal of Hazardous Materials, 2009, 166, 939-944.	12.4	101
22	Controlled synthesis of thorny anatase TiO <sub>2</sub> tubes for construction of Ag@AgBr/TiO <sub>2</sub> composites as highly efficient simulated solar-light photocatalyst. Journal of Materials Chemistry, 2012, 22, 2081-2088.	6.7	84
23	In situ growth of Bi <sub>2</sub> MoO <sub>6</sub> on reduced graphene oxide nanosheets for improved visible-light photocatalytic activity. CrystEngComm, 2014, 16, 842-849.	2.6	80
24	Assembly of TiO <sub>2</sub> ultrathin nanosheets with surface lattice distortion for solar-light-driven photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 239, 317-323.	20.2	77
25	Black N@TiO <sub>2</sub> Nanoplates with a Flower-Like Hierarchical Architecture for Photocatalytic Hydrogen Evolution. ChemSusChem, 2016, 9, 2841-2848.	6.8	73
26	Controlled synthesis of mesoporous anatase TiO <sub>2</sub> microspheres as a scattering layer to enhance the photoelectrical conversion efficiency. Journal of Materials Chemistry A, 2013, 1, 9853.	10.3	70
27	Hierarchical SnS <sub>2</sub> /CuInS <sub>2</sub> Nanosheet Heterostructure Films Decorated with C <sub>60</sub> for Remarkable Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 9093-9101.	8.0	68
28	Exceptional visible-light photoelectrocatalytic activity of In <sub>2</sub> O <sub>3</sub> /In <sub>2</sub> S <sub>3</sub> /CdS ternary stereoscopic porous heterostructure film for the degradation of persistent 4-fluoro-3-methylphenol. Applied Catalysis B: Environmental, 2018, 225, 477-486.	20.2	66
29	A Floating Porous Crystalline TiO <sub>2</sub> Ceramic with Enhanced Photocatalytic Performance for Wastewater Decontamination. European Journal of Inorganic Chemistry, 2013, 2013, 2411-2417.	2.0	59
30	Hierarchical Composite of Ag/AgBr Nanoparticles Supported on Bi <sub>2</sub> MoO <sub>6</sub> Hollow Spheres for Enhanced Visible-Light Photocatalytic Performance. ChemPlusChem, 2013, 78, 117-123.	2.8	58
31	Enhanced Photocatalytic Hydrogen Evolution over Hierarchical Composites of ZnIn <sub>2</sub> S <sub>4</sub> Nanosheets Grown on MoS <sub>2</sub> Slices. Chemistry - an Asian Journal, 2014, 9, 1291-1297.	3.3	57
32	In situ formation of a ZnO/ZnSe nanonail array as a photoelectrode for enhanced photoelectrochemical water oxidation performance. Nanoscale, 2016, 8, 9366-9375.	5.6	52
33	Sulfur doped In <sub>2</sub> O <sub>3</sub> -CeO <sub>2</sub> hollow hexagonal prisms with carbon coating for efficient photocatalytic CO <sub>2</sub> reduction. Chemical Engineering Journal, 2021, 421, 129968.	12.7	52
34	Hierarchical FeTiO <sub>3</sub> @TiO <sub>2</sub> hollow spheres for efficient simulated sunlight-driven water oxidation. Nanoscale, 2015, 7, 15924-15934.	5.6	50
35	Fabrication of size-controlled hierarchical ZnS@ZnIn <sub>2</sub> S <sub>4</sub> heterostructured cages for enhanced gas-phase CO <sub>2</sub> photoreduction. Journal of Colloid and Interface Science, 2022, 605, 253-262.	9.4	47
36	Hierarchical Cu <sub>7</sub> S <sub>4</sub> -Cu <sub>9</sub> S <sub>8</sub> heterostructure hollow cubes for photothermal aerobic oxidation of amines. Chemical Engineering Journal, 2019, 363, 247-258.	12.7	45

#	ARTICLE	IF	CITATIONS
37	Enhanced charge transfer and separation of hierarchical hydrogenated TiO <sub>2</sub> nanothorns/carbon nanofibers composites decorated by NiS quantum dots for remarkable photocatalytic H <sub>2</sub> production activity. <i>Nanoscale</i> , 2018, 10, 4041-4050.	5.6	39
38	Highly dispersed of Ni <sub>0.85</sub> Se nanoparticles on nitrogen-doped graphene oxide as efficient and durable electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018, 262, 107-114.	5.2	39
39	WO <sub>3</sub> /BiVO <sub>4</sub> /BiOCl porous nanosheet composites from a biomass template for photocatalytic organic pollutant degradation. <i>Journal of Alloys and Compounds</i> , 2019, 802, 76-85.	5.5	39
40	Surface Plasmon Resonance-Enhanced Visible-NIR-Driven Photocatalytic and Photothermal Catalytic Performance by Ag/Mesoporous Black TiO <sub>2</sub> Nanotube Heterojunctions. <i>Chemistry - an Asian Journal</i> , 2019, 14, 177-186.	3.3	39
41	Room temperature solution synthesis of hierarchical bow-like Cu <sub>2</sub> O with high visible light driven photocatalytic activity. <i>RSC Advances</i> , 2012, 2, 2875.	3.6	38
42	One-step synthesis of a hierarchical Bi <sub>2</sub> S <sub>3</sub> nanoflower/nanosheet composite with efficient visible-light photocatalytic activity. <i>CrystEngComm</i> , 2015, 17, 8720-8727.	2.6	38
43	Hierarchical CuS@ZnIn <sub>2</sub> S <sub>4</sub> Hollow Double-Shelled Heterojunction Octahedra Decorated with Fullerene C <sub>60</sub> for Remarkable Selectivity and Activity of CO <sub>2</sub> Photoreduction into CH <sub>4</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 7888-7899.	8.0	34
44	Hydrogenated TiO <sub>2</sub> /SrTiO <sub>3</sub> porous microspheres with tunable band structure for solar-light photocatalytic H <sub>2</sub> and O <sub>2</sub> evolution. <i>Science China Materials</i> , 2016, 59, 1003-1016.	6.3	32
45	Ultrathin-layered MoS <sub>2</sub> hollow nanospheres decorating Ni <sub>3</sub> S <sub>2</sub> nanowires as high effective self-supporting electrode for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 13149-13162.	7.1	31
46	Hierarchical N-Doped TiO <sub>2</sub> Microspheres with Exposed (001) Facets for Enhanced Visible Light Catalysis. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2146-2152.	2.0	29
47	Large-scale synthesis of stable mesoporous black TiO <sub>2</sub> nanosheets for efficient solar-driven photocatalytic hydrogen evolution via an earth-abundant low-cost biotemplate. <i>RSC Advances</i> , 2016, 6, 50506-50512.	3.6	29
48	Hierarchical Co <sub>0.85</sub> Se@CdSe/MoSe <sub>2</sub> /CdSe Sandwich-Like Heterostructured Cages for Efficient Photocatalytic CO <sub>2</sub> Reduction. <i>Small</i> , 2021, 17, e2100412.	10.0	29
49	Hierarchical ZnO nanorod/ZnFe <sub>2</sub> O <sub>4</sub> nanosheet core/shell nanoarray decorated with PbS quantum dots for efficient photoelectrochemical water splitting. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154449.	5.5	28
50	Single-step pyrolytic preparation of Mo <sub>2</sub> C/graphitic carbon nanocomposite as catalyst carrier for the direct liquid-feed fuel cells. <i>RSC Advances</i> , 2013, 3, 4771.	3.6	27
51	Controlled synthesis and exceptional photoelectrocatalytic properties of Bi <sub>2</sub> S <sub>3</sub> /MoS <sub>2</sub> /Bi <sub>2</sub> MoO <sub>6</sub> ternary hetero-structured porous film. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 214-223.	9.4	26
52	A facile and green synthesis route towards two-dimensional TiO <sub>2</sub> @Ag heterojunction structure with enhanced visible light photocatalytic activity. <i>CrystEngComm</i> , 2013, 15, 5821.	2.6	25
53	Surface defect-mediated efficient electron-hole separation in hierarchical flower-like bismuth molybdate hollow spheres for enhanced visible-light-driven photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 664-671.	9.4	25
54	Hierarchical Ag/Ag <sub>2</sub> S/CuS Ternary Heterostructure Composite as an Efficient Visible-Light Photocatalyst. <i>ChemCatChem</i> , 2015, 7, 1684-1690.	3.7	23

#	ARTICLE	IF	CITATIONS
55	Hydrogenated Cu <sub>2</sub> O@Au@CeO <sub>2</sub> Z-scheme catalyst for photocatalytic oxidation of amines to imines. <i>Catalysis Science and Technology</i> , 2018, 8, 5535-5543.	4.1	23
56	Solvothermal Synthesis, Characterization, and Formation Mechanism of a Single-Layer Anatase TiO <sub>2</sub> Nanosheet with a Porous Structure. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 754-760.	2.0	22
57	Nickel-Cobalt Diselenide Nanosheets Supported on Copper Nanowire Arrays for Synergistic Electrocatalytic Oxygen Evolution. <i>Advanced Materials Interfaces</i> , 2019, 6, 1802052.	3.7	22
58	Facile Strategy to Fabricate Uniform Black TiO <sub>2</sub> Nanothorns/Graphene/Black TiO <sub>2</sub> Nanothorns Sandwichlike Nanosheets for Excellent Solar-Driven Photocatalytic Performance. <i>ChemCatChem</i> , 2016, 8, 3240-3246.	3.7	21
59	Hydrogenated CeO <sub>2</sub> mesoporous hollow spheres for enhanced solar driven water oxidation. <i>Chemical Communications</i> , 2016, 52, 2521-2524.	4.1	21
60	Boosted charge transfer and photocatalytic CO <sub>2</sub> reduction over sulfur-doped C <sub>3</sub> N <sub>4</sub> porous nanosheets with embedded SnS <sub>2</sub> -SnO <sub>2</sub> nanojunctions. <i>Science China Materials</i> , 2022, 65, 400-412.	6.3	21
61	Tuning in BiVO <sub>4</sub> /Bi <sub>4</sub> V <sub>2</sub> O <sub>10</sub> porous heterophase nanospheres for synergistic photocatalytic degradation of organic pollutants. <i>Applied Surface Science</i> , 2019, 470, 631-638.	6.1	20
62	Facile synthesis and shape control of Fe <sub>3</sub> O <sub>4</sub> nanocrystals with good dispersion and stabilization. <i>CrystEngComm</i> , 2013, 15, 3366.	2.6	19
63	Hierarchical NiS decorated CuO@ZnFe <sub>2</sub> O <sub>4</sub> nanoarrays as advanced photocathodes for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6174-6183.	7.1	19
64	Hierarchical CuCo <sub>2</sub> S <sub>4</sub> Nanoflake Arrays Grown on Carbon Cloth: A Remarkable Bifunctional Electrocatalyst for Overall Water Splitting. <i>ChemElectroChem</i> , 2021, 8, 1134-1140.	3.4	19
65	Homojunction and defect synergy-mediated electron-hole separation for solar-driven mesoporous rutile/anatase TiO <sub>2</sub> microsphere photocatalysts. <i>RSC Advances</i> , 2019, 9, 7870-7877.	3.6	18
66	Fabrication of Rice-Like Porous Anatase TiO <sub>2</sub> with High Thermal Stability and Enhanced Photocatalytic Performance. <i>ChemCatChem</i> , 2012, 4, 844-850.	3.7	17
67	Single-crystalline Bi <sub>19</sub> Br <sub>3</sub> S <sub>27</sub> nanorods with an efficiently improved photocatalytic activity. <i>CrystEngComm</i> , 2015, 17, 6120-6126.	2.6	17
68	Self-Supported NiS Nanoparticle-Coupled Ni <sub>2</sub> P Nanoflake Array Architecture: An Advanced Catalyst for Electrochemical Hydrogen Evolution. <i>ChemElectroChem</i> , 2017, 4, 1341-1348.	3.4	17
69	Achieving cadmium selenide-decorated zinc ferrite@titanium dioxide hollow core/shell nanospheres with improved light trapping and charge generation for photocatalytic hydrogen generation. <i>Journal of Colloid and Interface Science</i> , 2020, 575, 158-167.	9.4	16
70	Improved charge separation and carbon dioxide photoreduction performance of surface oxygen vacancy-enriched zinc ferrite@titanium dioxide hollow nanospheres with spatially separated cocatalysts. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 1-11.	9.4	15
71	Fabrication of noncovalently functionalized brick-like β-cyclodextrins/graphene composite dispersions with favorable stability. <i>RSC Advances</i> , 2014, 4, 2813-2819.	3.6	14
72	Surface-oxygen vacancy defect-promoted electron-hole separation of defective tungsten trioxide ultrathin nanosheets and their enhanced solar-driven photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 18-27.	9.4	14

#	ARTICLE	IF	CITATIONS
73	Sandwich-Structured Hybrid of NiCo Nanoparticles-Embedded Carbon Nanotubes Grafted on C <sub>3</sub> N <sub>4</sub> Nanosheets for Efficient Photodehydrogenative Coupling Reactions. ACS Applied Materials & Interfaces, 2022, 14, 24425-24434.	8.0	14
74	Confinement Effect on Ag Clusters in the Channels of Well-Ordered Mesoporous TiO <sub>2</sub> and their Enhanced Photocatalytic Performance. ChemCatChem, 2013, 5, 1354-1358.	3.7	13
75	Efficient charge transfer and CO <sub>2</sub> photoreduction of hierarchical CeO <sub>2</sub> @SnS <sub>2</sub> heterostructured hollow spheres with spatially separated active sites. Applied Surface Science, 2022, 592, 153192.	6.1	13
76	Dye-Sensitised Solar Cells Based on Large-Pore Mesoporous TiO <sub>2</sub> with Controllable Pore Diameters. European Journal of Inorganic Chemistry, 2011, 2011, 4730-4737.	2.0	12
77	In situ intercalation and exploitation of Co <sub>3</sub> O <sub>4</sub> nanoparticles grown on carbon nitride nanosheets for highly efficient degradation of methylene blue. Dalton Transactions, 2020, 49, 14665-14672.	3.3	12
78	Cu <sub>2</sub> O decorated Fe <sub>2</sub> O <sub>3</sub> /SnS <sub>2</sub> core/shell heterostructured nanoarray photoanodes for water splitting. Solar Energy, 2021, 220, 843-851.	6.1	12
79	Efficient Separation of Photogenerated Charges in Sandwiched Bi <sub>2</sub> S <sub>3</sub> @BiOCl Nanoarrays/BiVO <sub>4</sub> Nanosheets Composites for Enhanced Photocatalytic Activity. ChemCatChem, 2020, 12, 3223-3229.	3.7	5
80	Efficient charge transfer in cadmium sulfide quantum dot-decorated hierarchical zinc sulfide-coated tin disulfide cages for carbon dioxide photoreduction. Journal of Colloid and Interface Science, 2022, 615, 606-616.	9.4	5