

Guohui Tian

List of Publications by Year in descending order

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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	Boosted charge transfer and photocatalytic CO ₂ reduction over sulfur-doped C ₃ N ₄ porous nanosheets with embedded SnS ₂ -SnO ₂ nanojunctions. <i>Science China Materials</i> , 2022, 65, 400-412.	6.3	21
2	Fabrication of size-controlled hierarchical ZnS@ZnIn ₂ S ₄ heterostructured cages for enhanced gas-phase CO ₂ photoreduction. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 253-262.	9.4	47
3	Efficient charge transfer in cadmium sulfide quantum dot-decorated hierarchical zinc sulfide-coated tin disulfide cages for carbon dioxide photoreduction. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 606-616.	9.4	5
4	Hierarchical CuS@ZnIn ₂ S ₄ Hollow Double-Shelled Heterojunction Octahedra Decorated with Fullerene C ₆₀ for Remarkable Selectivity and Activity of CO ₂ Photoreduction into CH ₄ . <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7888-7899.	8.0	34
5	Efficient charge transfer and CO ₂ photoreduction of hierarchical CeO ₂ @SnS ₂ heterostructured hollow spheres with spatially separated active sites. <i>Applied Surface Science</i> , 2022, 592, 153192.	6.1	13
6	Sandwich-Structured Hybrid of NiCo Nanoparticles-Embedded Carbon Nanotubes Grafted on C ₃ N ₄ Nanosheets for Efficient Photodehydrogenative Coupling Reactions. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24425-24434.	8.0	14
7	Hierarchical CuCo ₂ S ₄ Nanoflake Arrays Grown on Carbon Cloth: A Remarkable Bifunctional Electrocatalyst for Overall Water Splitting. <i>ChemElectroChem</i> , 2021, 8, 1134-1140.	3.4	19
8	Cu ₂ O decorated Fe ₂ O ₃ /SnS ₂ core/shell heterostructured nanoarray photoanodes for water splitting. <i>Solar Energy</i> , 2021, 220, 843-851.	6.1	12
9	Hierarchical Co _{0.85} Se/CdSe/MoSe ₂ /CdSe Sandwich-Like Heterostructured Cages for Efficient Photocatalytic CO ₂ Reduction. <i>Small</i> , 2021, 17, e2100412.	10.0	29
10	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
11	Sulfur doped In ₂ O ₃ -CeO ₂ hollow hexagonal prisms with carbon coating for efficient photocatalytic CO ₂ reduction. <i>Chemical Engineering Journal</i> , 2021, 421, 129968.	12.7	52
12	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
13	In situ intercalation and exploitation of Co ₃ O ₄ nanoparticles grown on carbon nitride nanosheets for highly efficient degradation of methylene blue. <i>Dalton Transactions</i> , 2020, 49, 14665-14672.	3.3	12
14	Efficient Separation of Photogenerated Charges in Sandwiched Bi ₂ S ₃ @BiOCl Nanoarrays/BiVO ₄ Nanosheets Composites for Enhanced Photocatalytic Activity. <i>ChemCatChem</i> , 2020, 12, 3223-3229.	3.7	5
15	Hierarchical ZnO nanorod/ZnFe ₂ O ₄ 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
16	Hierarchical NiS decorated CuO@ZnFe ₂ O ₄ nanoarrays as advanced photocathodes for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6174-6183.	7.1	19
17	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
18	Ultrathin-layered MoS ₂ hollow nanospheres decorating Ni ₃ S ₂ 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

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19	Controlled synthesis and exceptional photoelectrocatalytic properties of Bi ₂ S ₃ /MoS ₂ /Bi ₂ MoO ₆ ternary hetero-structured porous film. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 214-223.	9.4	26
20	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
21	WO ₃ /BiVO ₄ /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
22	Homojunction and defect synergy-mediated electron-hole separation for solar-driven mesoporous rutile/anatase TiO ₂ microsphere photocatalysts. <i>RSC Advances</i> , 2019, 9, 7870-7877.	3.6	18
23	Hierarchical Cu ₇ S ₄ -Cu ₉ S ₈ heterostructure hollow cubes for photothermal aerobic oxidation of amines. <i>Chemical Engineering Journal</i> , 2019, 363, 247-258.	12.7	45
24	Hierarchical SnS ₂ /CuInS ₂ Nanosheet Heterostructure Films Decorated with C ₆₀ for Remarkable Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9093-9101.	8.0	68
25	Nickel-Cobalt Diselenide Nanosheets Supported on Copper Nanowire Arrays for Synergistic Electrochemical Oxygen Evolution. <i>Advanced Materials Interfaces</i> , 2019, 6, 1802052.	3.7	22
26	Surface Plasmon Resonance-Enhanced Visible-NIR-Driven Photocatalytic and Photothermal Catalytic Performance by Ag/Mesoporous Black TiO ₂ Nanotube Heterojunctions. <i>Chemistry - an Asian Journal</i> , 2019, 14, 177-186.	3.3	39
27	Tuning in BiVO ₄ /Bi ₄ V ₂ O ₁₀ porous heterophase nanospheres for synergistic photocatalytic degradation of organic pollutants. <i>Applied Surface Science</i> , 2019, 470, 631-638.	6.1	20
28	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
29	Enhanced charge transfer and separation of hierarchical hydrogenated TiO ₂ nanorhods/carbon nanofibers composites decorated by NiS quantum dots for remarkable photocatalytic H ₂ production activity. <i>Nanoscale</i> , 2018, 10, 4041-4050.	5.6	39
30	Highly dispersed of Ni _{0.85} 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
31	Exceptional visible-light photoelectrocatalytic activity of In ₂ O ₃ /In ₂ S ₃ /CdS ternary stereoscopic porous heterostructure film for the degradation of persistent 4-fluoro-3-methylphenol. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 477-486.	20.2	66
32	Hydrogenated Cu ₂ O@CeO ₂ Z-scheme catalyst for photocatalytic oxidation of amines to imines. <i>Catalysis Science and Technology</i> , 2018, 8, 5535-5543.	4.1	23
33	NiSe-Ni _{0.85} Se Heterostructure Nanoflake Arrays on Carbon Paper as Efficient Electrocatalysts for Overall Water Splitting. <i>Small</i> , 2018, 14, e1800763.	10.0	185
34	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
35	Assembly of TiO ₂ ultrathin nanosheets with surface lattice distortion for solar-light-driven photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 317-323.	20.2	77
36	Self-floating amphiphilic black TiO ₂ foams with 3D macro-mesoporous architectures as efficient solar-driven photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 336-343.	20.2	102

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37	Cubic quantum dot/hexagonal microsphere ZnIn ₂ S ₄ heterophase junctions for exceptional visible-light-driven photocatalytic H ₂ evolution. Journal of Materials Chemistry A, 2017, 5, 8451-8460.	10.3	176
38	Self-Supported NiS Nanoparticle-Coupled Ni ₂ P Nanoflake Array Architecture: An Advanced Catalyst for Electrochemical Hydrogen Evolution. ChemElectroChem, 2017, 4, 1341-1348.	3.4	17
39	Hydrogenated TiO ₂ /SrTiO ₃ porous microspheres with tunable band structure for solar-light photocatalytic H ₂ and O ₂ evolution. Science China Materials, 2016, 59, 1003-1016.	6.3	32
40	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
41	Facile strategy for controllable synthesis of stable mesoporous black TiO ₂ hollow spheres with efficient solar-driven photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 7495-7502.	10.3	198
42	Large-scale synthesis of stable mesoporous black TiO ₂ nanosheets for efficient solar-driven photocatalytic hydrogen evolution via an earth-abundant low-cost biotemplate. RSC Advances, 2016, 6, 50506-50512.	3.6	29
43	Black N/TiO ₂ Nanoplates with a Flower-Like Hierarchical Architecture for Photocatalytic Hydrogen Evolution. ChemSusChem, 2016, 9, 2841-2848.	6.8	73
44	Facile Strategy to Fabricate Uniform Black TiO ₂ Nanothorns/Graphene/Black TiO ₂ Nanothorns Sandwichlike Nanosheets for Excellent Solar-Driven Photocatalytic Performance. ChemCatChem, 2016, 8, 3240-3246.	3.7	21
45	Hydrogenated CeO ₂ /S ₂ mesoporous hollow spheres for enhanced solar driven water oxidation. Chemical Communications, 2016, 52, 2521-2524.	4.1	21
46	Carbothermal synthesis of ordered mesoporous carbon-supported nano zero-valent iron with enhanced stability and activity for hexavalent chromium reduction. Journal of Hazardous Materials, 2016, 309, 249-258.	12.4	131
47	Hierarchical Ag/Ag ₂ S/CuS Ternary Heterostructure Composite as an Efficient Visible-Light Photocatalyst. ChemCatChem, 2015, 7, 1684-1690.	3.7	23
48	Single-crystalline Bi ₁₉ Br ₃ S ₂₇ nanorods with an efficiently improved photocatalytic activity. CrystEngComm, 2015, 17, 6120-6126.	2.6	17
49	One-step synthesis of a hierarchical Bi ₂ S ₃ nanoflower/In ₂ S ₃ nanosheet composite with efficient visible-light photocatalytic activity. CrystEngComm, 2015, 17, 8720-8727.	2.6	38
50	Hierarchical FeTiO ₃ -TiO ₂ hollow spheres for efficient simulated sunlight-driven water oxidation. Nanoscale, 2015, 7, 15924-15934.	5.6	50
51	Hierarchical N-Doped TiO ₂ Microspheres with Exposed (001) Facets for Enhanced Visible Light Catalysis. European Journal of Inorganic Chemistry, 2014, 2014, 2146-2152.	2.0	29
52	Enhanced Photocatalytic Hydrogen Evolution over Hierarchical Composites of ZnIn ₂ S ₄ Nanosheets Grown on MoS ₂ Slices. Chemistry - an Asian Journal, 2014, 9, 1291-1297.	3.3	57
53	Hierarchical composites of TiO ₂ nanowire arrays on reduced graphene oxide nanosheets with enhanced photocatalytic hydrogen evolution performance. Journal of Materials Chemistry A, 2014, 2, 4366-4374.	10.3	112
54	In situ growth of Bi ₂ MoO ₆ on reduced graphene oxide nanosheets for improved visible-light photocatalytic activity. CrystEngComm, 2014, 16, 842-849.	2.6	80

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55	Hierarchical Core@Shell Carbon Nanofiber@ZnIn ₂ S ₄ Composites for Enhanced Hydrogen Evolution Performance. ACS Applied Materials & Interfaces, 2014, 6, 13841-13849.	8.0	179
56	Fabrication of noncovalently functionalized brick-like β -cyclodextrins/graphene composite dispersions with favorable stability. RSC Advances, 2014, 4, 2813-2819.	3.6	14
57	Growth rate controlled synthesis of hierarchical Bi ₂ S ₃ /In ₂ S ₃ core/shell microspheres with enhanced photocatalytic activity. Scientific Reports, 2014, 4, 4027.	3.3	108
58	Composites of small Ag clusters confined in the channels of well-ordered mesoporous anatase TiO ₂ and their excellent solar-light-driven photocatalytic performance. Nano Research, 2014, 7, 731-742.	10.4	102
59	A Floating Porous Crystalline TiO ₂ Ceramic with Enhanced Photocatalytic Performance for Wastewater Decontamination. European Journal of Inorganic Chemistry, 2013, 2013, 2411-2417.	2.0	59
60	Controlled synthesis of mesoporous anatase TiO ₂ microspheres as a scattering layer to enhance the photoelectrical conversion efficiency. Journal of Materials Chemistry A, 2013, 1, 9853.	10.3	70
61	Single-step pyrolytic preparation of Mo ₂ C/graphitic carbon nanocomposite as catalyst carrier for the direct liquid-feed fuel cells. RSC Advances, 2013, 3, 4771.	3.6	27
62	Facile synthesis and shape control of Fe ₃ O ₄ nanocrystals with good dispersion and stabilization. CrystEngComm, 2013, 15, 3366.	2.6	19
63	Hierarchical flake-like Bi ₂ MoO ₆ /TiO ₂ bilayer films for visible-light-induced self-cleaning applications. Journal of Materials Chemistry A, 2013, 1, 6961.	10.3	102
64	Hierarchical Composite of Ag/AgBr Nanoparticles Supported on Bi ₂ MoO ₆ Hollow Spheres for Enhanced Visible-Light Photocatalytic Performance. ChemPlusChem, 2013, 78, 117-123.	2.8	58
65	Hierarchical CuS hollow nanospheres and their structure-enhanced visible light photocatalytic properties. CrystEngComm, 2013, 15, 5144.	2.6	106
66	Confinement Effect on Ag Clusters in the Channels of Well-Ordered Mesoporous TiO ₂ and their Enhanced Photocatalytic Performance. ChemCatChem, 2013, 5, 1354-1358.	3.7	13
67	Facile synthesis of sheet-like ZnO assembly composed of small ZnO particles for highly efficient photocatalysis. Journal of Materials Chemistry A, 2013, 1, 5700.	10.3	170
68	A facile and green synthesis route towards two-dimensional TiO ₂ @Ag heterojunction structure with enhanced visible light photocatalytic activity. CrystEngComm, 2013, 15, 5821.	2.6	25
69	Controlled synthesis of thorny anatase TiO ₂ tubes for construction of Ag@AgBr/TiO ₂ composites as highly efficient simulated solar-light photocatalyst. Journal of Materials Chemistry, 2012, 22, 2081-2088.	6.7	84
70	Room temperature solution synthesis of hierarchical bow-like Cu ₂ O with high visible light driven photocatalytic activity. RSC Advances, 2012, 2, 2875.	3.6	38
71	Facile preparation of porous NiTiO ₃ nanorods with enhanced visible-light-driven photocatalytic performance. Journal of Materials Chemistry, 2012, 22, 16471.	6.7	176
72	Fabrication of Rice-Like Porous Anatase TiO ₂ with High Thermal Stability and Enhanced Photocatalytic Performance. ChemCatChem, 2012, 4, 844-850.	3.7	17

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73	Facile solvothermal synthesis of hierarchical flower-like Bi ₂ MoO ₆ hollow spheres as high performance visible-light driven photocatalysts. Journal of Materials Chemistry, 2011, 21, 887-892.	6.7	427
74	3D hierarchical flower-like TiO ₂ nanostructure: morphology control and its photocatalytic property. CrystEngComm, 2011, 13, 2994.	2.6	237
75	Well-Ordered Large-Pore Mesoporous Anatase TiO ₂ with Remarkably High Thermal Stability and Improved Crystallinity: Preparation, Characterization, and Photocatalytic Performance. Advanced Functional Materials, 2011, 21, 1922-1930.	14.9	431
76	Solvothermal Synthesis, Characterization, and Formation Mechanism of a Single-Layer Anatase TiO ₂ Nanosheet with a Porous Structure. European Journal of Inorganic Chemistry, 2011, 2011, 754-760.	2.0	22
77	Dye-Sensitised Solar Cells Based on Large-Pore Mesoporous TiO ₂ with Controllable Pore Diameters. European Journal of Inorganic Chemistry, 2011, 2011, 4730-4737.	2.0	12
78	Synthesis and photocatalytic activity of stable nanocrystalline TiO ₂ with high crystallinity and large surface area. Journal of Hazardous Materials, 2009, 161, 1122-1130.	12.4	172
79	Enhanced photocatalytic activity of S-doped TiO ₂ -ZrO ₂ nanoparticles under visible-light irradiation. Journal of Hazardous Materials, 2009, 166, 939-944.	12.4	101
80	Preparation and Characterization of Stable Biphasic TiO ₂ Photocatalyst with High Crystallinity, Large Surface Area, and Enhanced Photoactivity. Journal of Physical Chemistry C, 2008, 112, 3083-3089.	3.1	288