Gang Cheng

List of Publications by Year
in descending order

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74 papers	3,470 citations	117625 34 h-index	144013 57 g-index
75 all docs	75 docs citations	75 times ranked	4303 citing authors

#	Article	IF	Citations
1	Simply Coupling TiO₂ Nanospheres with Cu₂O Particles to Boost the Photocatalytic Hydrogen Evolution through pâ€“n Heterojunctionâ€induced Charge Transfer. Energy Technology, 2022, 10, 2100259.	3.8	4
2	Achieving simultaneous Cu particles anchoring in meso-porous TiO2 nanofabrication for enhancing photo-catalytic CO2 reduction through rapid charge separation. Chinese Chemical Letters, 2022, 33, 1313-1316.	9.0	48
3	Recent advances in synthesis strategies and solar-to-hydrogen evolution of 1T phase MS2 (MÂ=ÂW, Mo) co-catalysts. Journal of Materials Science and Technology, 2022, 101, 242-263.	10.7	14
4	Facilely anchoring Cu2O nanoparticles on mesoporous TiO2 nanorods for enhanced photocatalytic CO2 reduction through efficient charge transfer. Chinese Chemical Letters, 2022, 33, 3709-3712.	9.0	80
5	Precursor self-derived Cu@TiO2 hybrid Schottky junction for enhanced solar-to-hydrogen evolution. International Journal of Hydrogen Energy, 2022, 47, 10628-10637.	7.1	13
6	Ions-exchange anchoring Cu7S4 cocatalyst on K2Ti8O17 nanowires assembly for enhanced CO2 photoreduction through efficient charge separation. Journal of Alloys and Compounds, 2022, 909, 164792.	5.5	11
7	Metallic Copperâ€Containing Composite Photocatalysts: Fundamental, Materials Design, and Photoredox Applications. Small Methods, 2022, 6, e2101001.	8.6	18
8	Integrated p-n/Schottky junctions for efficient photocatalytic hydrogen evolution upon Cu@TiO2-Cu2O ternary hybrids with steering charge transfer. Journal of Colloid and Interface Science, 2022, 622, 924-937.	9.4	31
9	Co-embedding oxygen vacancy and copper particles into titanium-based oxides (TiO2, BaTiO3, and) Tj ETQq1 1 0.784314 rgBT /Overlock of Colloid and Interface Science, 2022, 624, 348-361.	9.4	32
10	New insights on nanostructure of ordered mesoporous Fe Mn bimetal oxides (OMFMs) by a novel inverse micelle method and their superior arsenic sequestration performance: Effect of calcination temperature and role of Fe/Mn oxides. Science of the Total Environment, 2021, 762, 143163.	8.0	18
11	Facilely Anchoring Cu nanoparticles on WO₃ Nanocubes for Enhanced Photocatalysis through Efficient Interface Charge Transfer. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2021, 36, 325.	1.3	2
12	Engineered tungsten oxide-based photocatalysts for CO₂reduction: categories and roles. Journal of Materials Chemistry A, 2021, 9, 22781-22809.	10.3	29
13	Recent Progress on Two-Dimensional Carbon Materials for Emerging Post-Lithium (Na+, K+, Zn2+) Hybrid Supercapacitors. Polymers, 2021, 13, 2137.	4.5	19
14	Porous biochar-supported MnFe2O4 magnetic nanocomposite as an excellent adsorbent for simultaneous and effective removal of organic/inorganic arsenic from water. Journal of Hazardous Materials, 2021, 411, 124909.	12.4	77
15	Oxygen vacancy induced peroxymonosulfate activation by Mg-doped Fe2O3 composites for advanced oxidation of organic pollutants. Chemosphere, 2021, 279, 130482.	8.2	60
16	Facile construction of g-C3N4-W18O49 heterojunction with improved charge transfer for solar-driven CO2 photoreduction. Inorganic Chemistry Communication, 2021, 132, 108814.	3.9	8
17	Facile inverse micelle fabrication of magnetic ordered mesoporous iron cerium bimetal oxides with excellent performance for arsenic removal from water. Journal of Hazardous Materials, 2020, 383, 121172.	12.4	76
18	Simultaneous oxidation and immobilization of arsenite from water by nanosized magnetic mesoporous iron manganese bimetal oxides (Nanosized-MMIM): Synergistic effect and interface catalysis. Chemical Engineering Journal, 2020, 391, 123578.	12.7	22

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19	Surface Potential/Wettability and Interface Charge Transfer Engineering of Copper-Oxide (Cuâ€“MO_x, M = W, Ti, and Ce) Hybrids for Efficient Wastewater Treatment through Adsorptionâ€“Photocatalysis Synergy. Industrial & Engineering Chemistry Research, 2020, 59, 15454-15463.	3.7	12
20	Engineered zinc oxide nanoaggregates for photocatalytic removal of ciprofloxacin with structure dependence. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	13
21	A 1D/2D WO₃ nanostructure coupled with a nanoparticulate CuO cocatalyst for enhancing solar-driven CO₂ photoreduction: the impact of the crystal facet. Sustainable Energy and Fuels, 2020, 4, 2593-2603.	4.9	29
22	Facile polyol-triggered anataseâ€“rutile heterophase TiO2-x nanoparticles for enhancing photocatalytic CO2 reduction. Journal of Colloid and Interface Science, 2020, 579, 872-877.	9.4	34
23	Cuprous ion (Cu+) doping induced surface/interface engineering for enhancing the CO2 photoreduction capability of W18O49 nanowires. Journal of Colloid and Interface Science, 2020, 572, 306-317.	9.4	50
24	Beta-Cyclodextrin-triggered fabrication of broccoli-like ZnO nanoaggregates with enhanced photocatalytic capability. Functional Materials Letters, 2020, 13, 2051004.	1.2	1
25	Achieving solar-to-hydrogen evolution promotion using TiO2 nanoparticles and an unanchored Cu co-catalyst. Materials Research Bulletin, 2020, 129, 110891.	5.2	15
26	Synergistic impact of cocatalysts and hole scavenger for promoted photocatalytic H2 evolution in mesoporous TiO2NiS hybrid. Journal of Energy Chemistry, 2019, 32, 45-56.	12.9	61
27	Recent Advances in Cuâ€Based Cocatalysts toward Solarâ€toâ€Hydrogen Evolution: Categories and Roles. Solar Rrl, 2019, 3, 1900256.	5.8	41
28	Stimulus-Responsive Biopolymeric Surface: Molecular Switches for Oil/Water Separation. ACS Applied Bio Materials, 2019, 2, 4249-4257.	4.6	25
29	Electrostatically assembled construction of ternary TiO2-Cu@C hybrid with enhanced solar-to-hydrogen evolution employing amorphous carbon dots as electronic mediator. Chemical Engineering Journal, 2019, 375, 121902.	12.7	38
30	Promoting solar-to-hydrogen evolution on Schottky interface with mesoporous TiO2-Cu hybrid nanostructures. Journal of Colloid and Interface Science, 2019, 545, 116-127.	9.4	58
31	Chemical Properties, Structural Properties, and Energy Storage Applications of Prussian Blue Analogues. Small, 2019, 15, e1900470.	10.0	226
32	Simultaneous removal of As(V)/Cr(VI) and acid orange 7 (AO7) by nanosized ordered magnetic mesoporous Fe-Ce bimetal oxides: Behavior and mechanism. Chemosphere, 2019, 218, 1002-1013.	8.2	45
33	Impact of Cu particles on adsorption and photocatalytic capability of mesoporous Cu@TiO2 hybrid towards ciprofloxacin antibiotic removal. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 229-242.	5.3	32
34	One dimensional hierarchical nanostructures composed of CdS nanosheets/nanoparticles and Ag nanowires with promoted photocatalytic performance. Inorganic Chemistry Frontiers, 2018, 5, 903-915.	6.0	13
35	Titanium glycolate-derived TiO 2 nanomaterials: Synthesis and applications. Advanced Powder Technology, 2018, 29, 2289-2311.	4.1	41
36	Extremely rapid engineering of zinc oxide nanoaggregates with structure-dependent catalytic capability towards removal of ciprofloxacin antibiotic. Inorganic Chemistry Frontiers, 2018, 5, 2432-2444.	6.0	16

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37	Impact of post-processing modes of precursor on adsorption and photocatalytic capability of mesoporous TiO2 nanocrystallite aggregates towards ciprofloxacin removal. Chemical Engineering Journal, 2018, 349, 1-16.	12.7	124
38	Achieving photocatalytic hydrogen production from alkaline solution upon a designed mesoporous TiO₂â€“Ni hybrid employing commonly used paper as a sacrificial electron donor. Inorganic Chemistry Frontiers, 2018, 5, 2709-2717.	6.0	27
39	Positive Ni(HCO₃)₂ as a Novel Cocatalyst for Boosting the Photocatalytic Hydrogen Evolution Capability of Mesoporous TiO₂ Nanocrystals. ACS Sustainable Chemistry and Engineering, 2017, 5, 5027-5038.	6.7	98
40	Same titanium glycolate precursor but different products: successful synthesis of twinned anatase TiO₂ nanocrystals with excellent solar photocatalytic hydrogen evolution capability. Inorganic Chemistry Frontiers, 2017, 4, 1319-1329.	6.0	37
41	In-situ room-temperature synthesis of amorphous/crystalline contact Bi2S3/Bi2WO6 heterostructures for improved photocatalytic ability. Ceramics International, 2017, 43, 11296-11304.	4.8	34
42	A novel protocol to design TiO2-Fe2O3 hybrids with effective charge separation efficiency for improved photocatalysis. Advanced Powder Technology, 2017, 28, 665-670.	4.1	25
43	Insights into the structure-induced catalysis dependence of simply engineered one-dimensional zinc oxide nanocrystals towards photocatalytic water purification. Inorganic Chemistry Frontiers, 2017, 4, 2075-2087.	6.0	14
44	Ionic liquid-employed synthesis of Bi 2 E 3 (E = S, Se, and Te) hierarchitectures: The case of Bi 2 S 3 with superior visible-light-driven Cr(VI) photoreduction capacity. Chemical Engineering Journal, 2017, 327, 371-386.	12.7	64
45	Sorbitol-employed hydrothermal carbonization to TiO2@C mesoporous hybrids with promoted visible light utilization andÂexcellent photosensitization stability. Journal of Alloys and Compounds, 2017, 723, 948-959.	5.5	13
46	Anionâ€exchange synthesis of hollow BiOCl/Bi ₂ S ₃ hybrids with superior capability for photocatalytic reduction of hexavalent chromium under visible light irradiation. Micro and Nano Letters, 2017, 12, 1020-1023.	1.3	7
47	Promoted Visible-Light-Driven Photocatalytic Capability of TiO2 Nanoparticles Decorated Bi2O3 Quadrangular Prism Structures Prepared via a Solvothermal Approach. Energy and Environment Focus, 2017, 6, 35-42.	0.3	0
48	Enhanced adsorption and photocatalysis capability of generally synthesized TiO2-carbon materials hybrids. Advanced Powder Technology, 2016, 27, 1949-1962.	4.1	74
49	Mediation of Valence Band Maximum of BiOI by Cl Incorporation for Improved Oxidation Power in Photocatalysis. Industrial & Engineering Chemistry Research, 2016, 55, 4969-4978.	3.7	48
50	Insights into Promoted Adsorption Capability of Layered BiOCl Nanostructures Decorated with TiO₂ Nanoparticles. ACS Sustainable Chemistry and Engineering, 2016, 4, 7013-7022.	6.7	70
51	A facile and general synthesis strategy to doped TiO₂ nanoaggregates with a mesoporous structure and comparable property. RSC Advances, 2015, 5, 64293-64298.	3.6	38
52	HEPES-involved hydrothermal synthesis of Fe₃O₄ nanoparticles and their biological application. RSC Advances, 2015, 5, 5059-5067.	3.6	31
53	From Ni-based nanoprecursors to NiO nanostructures: morphology-controlled synthesis and structure-dependent electrochemical behavior. New Journal of Chemistry, 2015, 39, 676-682.	2.8	44
54	Achieving phase transformation and structure control of crystalline anatase TiO 2 @C hybrids from titanium glycolate precursor and glucose molecules. Journal of Colloid and Interface Science, 2015, 438, 169-178.	9.4	22

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55	Enhanced visible light photocatalytic performance of Sb-doped (BiO)2CO3 nanoplates. Catalysis Communications, 2015, 58, 190-194.	3.3	38
56	Facile hydrothermal selective fabrication of Ni(OH)₂ and Ni(HCO₃)₂ nanoparticulates and their electrochemical performances. RSC Advances, 2014, 4, 49303-49307.	3.6	34
57	Refluxing Synthesis of Anatase TiO₂ Nanoparticles Assembled Microprisms and Its Application for Dye-Sensitized Solar Cells. Science of Advanced Materials, 2014, 6, 459-464.	0.7	9
58	Structure modification of anatase TiO2 nanomaterials-based photoanodes for efficient dye-sensitized solar cells. Electrochimica Acta, 2013, 113, 527-535.	5.2	36
59	Facile synthesis and characterization of TiO2 nanodots and TiO2 nanodots@MWCNTs composite via solvothermal method. Materials Letters, 2013, 113, 71-75.	2.6	5
60	Tunable BiOCl hierarchical nanostructures for high-efficient photocatalysis under visible light irradiation. Chemical Engineering Journal, 2013, 220, 228-236.	12.7	196
61	A facile polyol-mediated approach to tunable CeO2 microcrystals and their photocatalytic activity. Powder Technology, 2013, 249, 89-94.	4.2	13
62	Novel Preparation of Anatase TiO₂@Reduced Graphene Oxide Hybrids for High-Performance Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 6635-6642.	8.0	147
63	Facile template-free and fast refluxing synthesis of 3D desertrose-like BiOCl nanoarchitectures with superior photocatalytic activity. New Journal of Chemistry, 2013, 37, 3207.	2.8	138
64	Solvothermal Synthesis of Layered BiOCl Nanosheets and Their Efficient VisibleLight-Induced Photocatalytic Activities. Science of Advanced Materials, 2013, 5, 1024-1031.	0.7	6
65	Shape-Dependent Photocatalytic Activities of Bismuth Subcarbonate Nanostructures. Journal of Nanoscience and Nanotechnology, 2012, 12, 4028-4034.	0.9	16
66	Facile solvothermal synthesis of uniform sponge-like Bi2SiO5 hierarchical nanostructure and its application in Cr(VI) removal. Materials Letters, 2012, 77, 25-28.	2.6	27
67	Well-crystallized square-like 2D BiOCl nanoplates: mannitol-assisted hydrothermal synthesis and improved visible-light-driven photocatalytic performance. RSC Advances, 2011, 1, 1542.	3.6	319
68	BiOCOOH hierarchical nanostructures: Shape-controlled solvothermal synthesis and photocatalytic degradation performances. CrystEngComm, 2011, 13, 2381.	2.6	91
69	Large-scale synthesis of bismuth sulfide nanorods by microwave irradiation. Journal of Alloys and Compounds, 2011, 509, 2116-2126.	5.5	42
70	Fabrication of gold nanoparticles with different morphologies in HEPES buffer. Rare Metals, 2010, 29, 180-186.	7.1	74
71	Bismuth subcarbonate nanoparticles fabricated by water-in-oil microemulsion-assisted hydrothermal process exhibit anti-Helicobacter pylori properties. Materials Research Bulletin, 2010, 45, 654-658.	5.2	66
72	Fabrication of three-dimensional snowflake-like bismuth sulfide nanostructures by simple refluxing. Materials Letters, 2010, 64, 287-290.	2.6	14

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73	Shape-controlled solvothermal synthesis of bismuth subcarbonate nanomaterials. Journal of Solid State Chemistry, 2010, 183, 1878-1883.	2.9	78
74	Synthesis of bismuth micro- and nanospheres by a simple refluxing method. Materials Letters, 2009, 63, 2239-2242.	2.6	37