Gui-Gao Liu

List of Publications by Year
in descending order

66 papers	8,718 citations	61857 43 h-index	102304 66 g-index
69 all docs	69 docs citations	69 times ranked	11435 citing authors

#	Article	IF	Citations
1	Singleâ€Atom Catalysts: Emerging Multifunctional Materials in Heterogeneous Catalysis. Advanced Energy Materials, 2018, 8, 1701343.	10.2	705
2	Efficient Visibleâ€Lightâ€Driven Carbon Dioxide Reduction by a Singleâ€Atom Implanted Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2016, 55, 14310-14314.	7.2	612
3	In Situ Bond Modulation of Graphitic Carbon Nitride to Construct pâ€“n Homojunctions for Enhanced Photocatalytic Hydrogen Production. Advanced Functional Materials, 2016, 26, 6822-6829.	7.8	583
4	Targeted Synthesis of 2Hâ€•and 1Tâ€Phase MoS₂ Monolayers for Catalytic Hydrogen Evolution. Advanced Materials, 2016, 28, 10033-10041.	11.1	534
5	Active Sites Implanted Carbon Cages in Coreâ€“Shell Architecture: Highly Active and Durable Electrocatalyst for Hydrogen Evolution Reaction. ACS Nano, 2016, 10, 684-694.	7.3	426
6	Efficient visible driven photocatalyst, silver phosphate: performance, understanding and perspective. Chemical Society Reviews, 2015, 44, 7808-7828.	18.7	406
7	Promoting Active Species Generation by Plasmon-Induced Hot-Electron Excitation for Efficient Electrocatalytic Oxygen Evolution. Journal of the American Chemical Society, 2016, 138, 9128-9136.	6.6	341
8	Surfaceâ€Plasmonâ€Enhanced Photodriven CO₂ Reduction Catalyzed by Metalâ€“Organicâ€Frameworkâ€Derived Iron Nanoparticles Encapsulated by Ultrathin Carbon Layers. Advanced Materials, 2016, 28, 3703-3710.	11.1	300
9	Natureâ€Inspired Environmental â€œPhosphorylationâ€•Boosts Photocatalytic H₂ Production over Carbon Nitride Nanosheets under Visibleâ€Light Irradiation. Angewandte Chemie - International Edition, 2015, 54, 13561-13565.	7.2	287
10	Engineering coordination polymers for photocatalysis. Nano Energy, 2016, 22, 149-168.	8.2	223
11	Recent Progress in Grapheneâ€Based Nobleâ€Metal Nanocomposites for Electrocatalytic Applications. Advanced Materials, 2019, 31, e1800696.	11.1	219
12	Co-porphyrin/carbon nitride hybrids for improved photocatalytic CO2 reduction under visible light. Applied Catalysis B: Environmental, 2017, 200, 141-149.	10.8	198
13	Superior Photocatalytic H₂ Production with Cocatalytic Co/Ni Species Anchored on Sulfide Semiconductor. Advanced Materials, 2017, 29, 1703258.	11.1	188
14	Ag@MoS₂ Coreâ€“Shell Heterostructure as SERS Platform to Reveal the Hydrogen Evolution Active Sites of Single-Layer MoS₂. Journal of the American Chemical Society, 2020, 142, 7161-7167.	6.6	185
15	Ethylene Selectivity in Electrocatalytic CO₂ Reduction on Cu Nanomaterials: A Crystal Phase-Dependent Study. Journal of the American Chemical Society, 2020, 142, 12760-12766.	6.6	183
16	Efficient Visibleâ€Lightâ€Driven Carbon Dioxide Reduction by a Singleâ€Atom Implanted Metalâ€“Organic Framework. Angewandte Chemie, 2016, 128, 14522-14526.	1.6	174
17	Efficient hydrogen evolution over Sb doped SnO2 photocatalyst sensitized by Eosin Y under visible light irradiation. Nano Energy, 2017, 36, 331-340.	8.2	168
18	Ligandâ€Exchangeâ€Induced Amorphization of Pd Nanomaterials for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. Advanced Materials, 2020, 32, e1902964.	11.1	164

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19	Crystal Phase and Architecture Engineering of Lotusâ€Thalamusâ€Shaped Ptâ€Ni Anisotropic Superstructures for Highly Efficient Electrochemical Hydrogen Evolution. Advanced Materials, 2018, 30, e1801741.	11.1	163
20	In situ synthesis of ordered mesoporous Co-doped TiO₂ and its enhanced photocatalytic activity and selectivity for the reduction of CO₂. Journal of Materials Chemistry A, 2015, 3, 9491-9501.	5.2	155
21	Synthesis and photocatalytic properties of metastable Î²-Bi₂O₃stabilized by surface-coordination effects. Journal of Materials Chemistry A, 2015, 3, 5119-5125.	5.2	149
22	Photoreduction of CO 2 over the well-crystallized ordered mesoporous TiO 2 with the confined space effect. Nano Energy, 2014, 9, 50-60.	8.2	137
23	Hydrogen-Intercalation-Induced Lattice Expansion of Pd@Pt Coreâ€“Shell Nanoparticles for Highly Efficient Electrocatalytic Alcohol Oxidation. Journal of the American Chemical Society, 2021, 143, 11262-11270.	6.6	121
24	Synthesis of RuNi alloy nanostructures composed of multilayered nanosheets for highly efficient electrocatalytic hydrogen evolution. Nano Energy, 2019, 66, 104173.	8.2	116
25	Band-structure-controlled BiO(ClBr)_{(1â^'x)/2}I_x solid solutions for visible-light photocatalysis. Journal of Materials Chemistry A, 2015, 3, 8123-8132.	5.2	114
26	Recent advances in nanostructured electrocatalysts for hydrogen evolution reaction. Rare Metals, 2021, 40, 3375-3405.	3.6	112
27	Phase-Selective Epitaxial Growth of Heterophase Nanostructures on Unconventional 2H-Pd Nanoparticles. Journal of the American Chemical Society, 2020, 142, 18971-18980.	6.6	111
28	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. Angewandte Chemie - International Edition, 2017, 56, 5570-5574.	7.2	104
29	Highly active nonprecious metal hydrogen evolution electrocatalyst: ultrafine molybdenum carbide nanoparticles embedded into a 3D nitrogen-implanted carbon matrix. NPG Asia Materials, 2016, 8, e293-e293.	3.8	100
30	Synthesis of Palladiumâ€Based Crystalline@Amorphous Coreâ€“Shell Nanoplates for Highly Efficient Ethanol Oxidation. Advanced Materials, 2020, 32, e2000482.	11.1	98
31	A Co₃O₄-embedded porous ZnO rhombic dodecahedron prepared using zeolitic imidazolate frameworks as precursors for CO₂ photoreduction. Nanoscale, 2016, 8, 6712-6720.	2.8	96
32	n-type boron phosphide as a highly stable, metal-free, visible-light-active photocatalyst for hydrogen evolution. Nano Energy, 2016, 28, 158-163.	8.2	94
33	A highly durable p-LaFeO₃/n-Fe₂O₃ photocell for effective water splitting under visible light. Chemical Communications, 2015, 51, 3630-3633.	2.2	83
34	Efficient photocatalytic CO 2 reduction in all-inorganic aqueous environment: Cooperation between reaction medium and Cd(II) modified colloidal ZnS. Nano Energy, 2017, 34, 524-532.	8.2	74
35	Evoking ordered vacancies in metallic nanostructures toward a vacated Barlow packing for high-performance hydrogen evolution. Science Advances, 2021, 7, .	4.7	64
36	Selective Epitaxial Growth of Rh Nanorods on 2H/fcc Heterophase Au Nanosheets to Form 1D/2D Rhâ€“Au Heterostructures for Highly Efficient Hydrogen Evolution. Journal of the American Chemical Society, 2021, 143, 4387-4396.	6.6	56

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37	Crystal-facet-dependent hot-electron transfer in plasmonic-Au/semiconductor heterostructures for efficient solar photocatalysis. Journal of Materials Chemistry C, 2015, 3, 7538-7542.	2.7	55
38	Yolkâ€“shell structured Fe3O4@C@F-TiO2 microspheres with surface fluorinated as recyclable visible-light driven photocatalysts. Applied Catalysis B: Environmental, 2014, 150-151, 515-522.	10.8	48
39	Improved Photocatalytic H₂ Evolution over Gâ€Carbon Nitride with Enhanced Inâ€Plane Ordering. Small, 2016, 12, 6160-6166.	5.2	48
40	Efficient organic degradation under visible light by Î±-Bi2O3 with a CuO -assistant electron transfer process. Applied Catalysis B: Environmental, 2015, 163, 267-276.	10.8	47
41	In situ construction of Î±-Bi₂O₃/g-C₃N₄/Î²-Bi₂O₃composites and their highly efficient photocatalytic performances. RSC Advances, 2015, 5, 92963-92969.	3.7	45
42	Three-dimensional cuprous oxide microtube lattices with high catalytic activity templated by bacterial cellulose nanofibers. Journal of Materials Chemistry, 2011, 21, 10637.	6.7	44
43	Designed 3D heterostructure with 0D/1D/2D hierarchy for low-frequency microwave absorption in the S-band. Journal of Materials Chemistry C, 2022, 10, 1470-1478.	2.7	39
44	Au@Cu₇S₄ yolkâ€“shell nanoparticles as a 980 nm laser-driven photothermal agent with a heat conversion efficiency of 63%. RSC Advances, 2015, 5, 87903-87907.	1.7	34
45	A universal method for rapid and largeâ€scale growth of layered crystals. SmartMat, 2020, 1, e1011.	6.4	33
46	Crystal phase-controlled growth of PtCu and PtCo alloys on 4H Au nanoribbons for electrocatalytic ethanol oxidation reaction. Nano Research, 2020, 13, 1970-1975.	5.8	32
47	Tailoring the Mechanical Performance of Carbon Nanotubes Buckypaper by Aramid Nanofibers towards Robust and Compact Supercapacitor Electrode. Advanced Functional Materials, 2022, 32, .	7.8	32
48	Effective Magnetic MOFs Adsorbent for the Removal of Bisphenol A, Tetracycline, Congo Red and Methylene Blue Pollutions. Nanomaterials, 2021, 11, 1917.	1.9	31
49	Preparation of Amorphous SnO₂â€Encapsulated Multiphased Crystalline Cu Heterostructures for Highly Efficient CO₂ Reduction. Advanced Materials, 2022, 34, e2201114.	11.1	29
50	Transition metal dichalcogenide/multi-walled carbon nanotube-based fibers as flexible electrodes for electrocatalytic hydrogen evolution. Chemical Communications, 2020, 56, 5131-5134.	2.2	28
51	Visible Light Photoanode Material for Photoelectrochemical Water Splitting: A Review of Bismuth Vanadate. Energy & Fuels, 2022, 36, 11404-11427.	2.5	28
52	Rational construction of heterogeneous interfaces for bimetallic MOFs-derived/rGO composites towards optimizing the electromagnetic wave absorption. Chemical Engineering Journal, 2022, 429, 132238.	6.6	27
53	Nanorod-like Î±-Bi₂O₃: a highly active photocatalyst synthesized using g-C₃N₄ as a template. RSC Advances, 2014, 4, 55062-55066.	1.7	22
54	Threeâ€Dimensional Hierarchical Porous Carbon/Graphitic Carbon Nitride Composites for Efficient Photocatalytic Hydrogen Production. ChemCatChem, 2019, 11, 6364-6371.	1.8	22

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55	Room-temperature driven and visible light enhanced dehydrogenation reactions catalysed by basic Au/SrTiO₃. Journal of Materials Chemistry A, 2016, 4, 1941-1946.	5.2	17
56	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. Angewandte Chemie, 2017, 129, 5662-5666.	1.6	17
57	Wet-chemical synthesis and applications of amorphous metal-containing nanomaterials. Nano Research, 2023, 16, 4289-4309.	5.8	17
58	Exceptional enhancement of H2 production in alkaline environment over plasmonic Au/TiO2 photocatalyst under visible light. APL Materials, 2015, 3, .	2.2	16
59	Fabrication of Ge quantum dots doped TiO2 films with high optical absorption properties via layer-by-layer ion-beam sputtering. Materials Letters, 2012, 67, 369-372.	1.3	15
60	Hematite homojunctions without foreign element doping for efficient and stable overall water splitting. RSC Advances, 2016, 6, 62263-62269.	1.7	14
61	Interfacing Photosynthetic Membrane Protein with Mesoporous WO₃ Photoelectrode for Solar Water Oxidation. Small, 2018, 14, e1800104.	5.2	14
62	A freestanding 3D heterophase tungsten disulfide-based aerogel as an ultrathin microwave absorber in the Ku-band. Journal of Materials Chemistry A, 2022, 10, 13848-13857.	5.2	14
63	Amido-Functionalized Magnetic Metalâ^'Organic Frameworks Adsorbent for the Removal of Bisphenol A and Tetracycline. Frontiers in Chemistry, 2021, 9, 707559.	1.8	5
64	Study on the enhancement of photocatalytic environment purification through ubiquitous-red-clay loading. SN Applied Sciences, 2019, 1, 1.	1.5	4
65	Controlled Synthesis and Photocatalytic Performance of Au@ZnO Nanospheres with Coreâ€"Shell and Yolk-Shell Structures Assisted by Carbonaceous Layers as Intermediate. Journal of Nanoscience and Nanotechnology, 2018, 18, 2555-2561.	0.9	2
66	RÃ¼cktitelbild: Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation (Angew. Chem. 20/2017). Angewandte Chemie, 2017, 129, 5724-5724.	1.6	0