

Gui-Gao Liu

List of Publications by Year in descending order

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66
papers

8,718
citations

61857

43
h-index

102304

66
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69
all docs

69
docs citations

69
times ranked

11435
citing authors

#	ARTICLE	IF	CITATIONS
1	Wet-chemical synthesis and applications of amorphous metal-containing nanomaterials. <i>Nano Research</i> , 2023, 16, 4289-4309.	5.8	17
2	Rational construction of heterogeneous interfaces for bimetallic MOFs-derived/rGO composites towards optimizing the electromagnetic wave absorption. <i>Chemical Engineering Journal</i> , 2022, 429, 132238.	6.6	27
3	Designed 3D heterostructure with 0D/1D/2D hierarchy for low-frequency microwave absorption in the S-band. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1470-1478.	2.7	39
4	Tailoring the Mechanical Performance of Carbon Nanotubes Buckypaper by Aramid Nanofibers towards Robust and Compact Supercapacitor Electrode. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	32
5	Preparation of Amorphous SnO ₂ Encapsulated Multiphased Crystalline Cu Heterostructures for Highly Efficient CO ₂ Reduction. <i>Advanced Materials</i> , 2022, 34, e2201114.	11.1	29
6	Visible Light Photoanode Material for Photoelectrochemical Water Splitting: A Review of Bismuth Vanadate. <i>Energy & Fuels</i> , 2022, 36, 11404-11427.	2.5	28
7	A freestanding 3D heterophase tungsten disulfide-based aerogel as an ultrathin microwave absorber in the Ku-band. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13848-13857.	5.2	14
8	Selective Epitaxial Growth of Rh Nanorods on 2H/fcc Heterophase Au Nanosheets to Form 1D/2D Rh Au Heterostructures for Highly Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2021, 143, 4387-4396.	6.6	56
9	Evoking ordered vacancies in metallic nanostructures toward a vacated Barlow packing for high-performance hydrogen evolution. <i>Science Advances</i> , 2021, 7, .	4.7	64
10	Recent advances in nanostructured electrocatalysts for hydrogen evolution reaction. <i>Rare Metals</i> , 2021, 40, 3375-3405.	3.6	112
11	Effective Magnetic MOFs Adsorbent for the Removal of Bisphenol A, Tetracycline, Congo Red and Methylene Blue Pollutions. <i>Nanomaterials</i> , 2021, 11, 1917.	1.9	31
12	Hydrogen-Intercalation-Induced Lattice Expansion of Pd@Pt Core Shell Nanoparticles for Highly Efficient Electrocatalytic Alcohol Oxidation. <i>Journal of the American Chemical Society</i> , 2021, 143, 11262-11270.	6.6	121
13	Amido-Functionalized Magnetic Metal Organic Frameworks Adsorbent for the Removal of Bisphenol A and Tetracycline. <i>Frontiers in Chemistry</i> , 2021, 9, 707559.	1.8	5
14	Phase-Selective Epitaxial Growth of Heterophase Nanostructures on Unconventional 2H-Pd Nanoparticles. <i>Journal of the American Chemical Society</i> , 2020, 142, 18971-18980.	6.6	111
15	A universal method for rapid and large-scale growth of layered crystals. <i>SmartMat</i> , 2020, 1, e1011.	6.4	33
16	Crystal phase-controlled growth of PtCu and PtCo alloys on 4H Au nanoribbons for electrocatalytic ethanol oxidation reaction. <i>Nano Research</i> , 2020, 13, 1970-1975.	5.8	32
17	Ethylene Selectivity in Electrocatalytic CO ₂ Reduction on Cu Nanomaterials: A Crystal Phase-Dependent Study. <i>Journal of the American Chemical Society</i> , 2020, 142, 12760-12766.	6.6	183
18	Ag@MoS ₂ Core Shell Heterostructure as SERS Platform to Reveal the Hydrogen Evolution Active Sites of Single-Layer MoS ₂ . <i>Journal of the American Chemical Society</i> , 2020, 142, 7161-7167.	6.6	185

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19	Transition metal dichalcogenide/multi-walled carbon nanotube-based fibers as flexible electrodes for electrocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2020, 56, 5131-5134.	2.2	28
20	Ligand-Exchange-Induced Amorphization of Pd Nanomaterials for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2020, 32, e1902964.	11.1	164
21	Synthesis of Palladium-Based Crystalline@Amorphous Core-Shell Nanoplates for Highly Efficient Ethanol Oxidation. <i>Advanced Materials</i> , 2020, 32, e2000482.	11.1	98
22	Synthesis of RuNi alloy nanostructures composed of multilayered nanosheets for highly efficient electrocatalytic hydrogen evolution. <i>Nano Energy</i> , 2019, 66, 104173.	8.2	116
23	Three-Dimensional Hierarchical Porous Carbon/Graphitic Carbon Nitride Composites for Efficient Photocatalytic Hydrogen Production. <i>ChemCatChem</i> , 2019, 11, 6364-6371.	1.8	22
24	Recent Progress in Graphene-Based Noble-Metal Nanocomposites for Electrocatalytic Applications. <i>Advanced Materials</i> , 2019, 31, e1800696.	11.1	219
25	Study on the enhancement of photocatalytic environment purification through ubiquitous-red-clay loading. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	4
26	Interfacing Photosynthetic Membrane Protein with Mesoporous WO ₃ Photoelectrode for Solar Water Oxidation. <i>Small</i> , 2018, 14, e1800104.	5.2	14
27	Single-Atom Catalysts: Emerging Multifunctional Materials in Heterogeneous Catalysis. <i>Advanced Energy Materials</i> , 2018, 8, 1701343.	10.2	705
28	Controlled Synthesis and Photocatalytic Performance of Au@ZnO Nanospheres with Core-Shell and Yolk-Shell Structures Assisted by Carbonaceous Layers as Intermediate. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 2555-2561.	0.9	2
29	Crystal Phase and Architecture Engineering of Lotus-Thalamus-Shaped Pt-Ni Anisotropic Superstructures for Highly Efficient Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, e1801741.	11.1	163
30	Co-porphyrin/carbon nitride hybrids for improved photocatalytic CO ₂ reduction under visible light. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 141-149.	10.8	198
31	Efficient photocatalytic CO ₂ reduction in all-inorganic aqueous environment: Cooperation between reaction medium and Cd(II) modified colloidal ZnS. <i>Nano Energy</i> , 2017, 34, 524-532.	8.2	74
32	Efficient hydrogen evolution over Sb doped SnO ₂ photocatalyst sensitized by Eosin Y under visible light irradiation. <i>Nano Energy</i> , 2017, 36, 331-340.	8.2	168
33	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. <i>Angewandte Chemie</i> , 2017, 129, 5662-5666.	1.6	17
34	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5570-5574.	7.2	104
35	Elemental Boron for Efficient Carbon Dioxide Reduction under Light Irradiation (<i>Angew. Chem.</i> 20/2017). <i>Angewandte Chemie</i> , 2017, 129, 5724-5724.	1.6	0
36	Superior Photocatalytic H ₂ Production with Cocatalytic Co/Ni Species Anchored on Sulfide Semiconductor. <i>Advanced Materials</i> , 2017, 29, 1703258.	11.1	188

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37	Hematite homojunctions without foreign element doping for efficient and stable overall water splitting. RSC Advances, 2016, 6, 62263-62269.	1.7	14
38	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
39	Targeted Synthesis of 2H- and 1T-Phase MoS ₂ Monolayers for Catalytic Hydrogen Evolution. Advanced Materials, 2016, 28, 10033-10041.	11.1	534
40	Improved Photocatalytic H ₂ Evolution over G-Carbon Nitride with Enhanced In-Plane Ordering. Small, 2016, 12, 6160-6166.	5.2	48
41	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal-Organic Framework. Angewandte Chemie - International Edition, 2016, 55, 14310-14314.	7.2	612
42	In Situ Bond Modulation of Graphitic Carbon Nitride to Construct p-n Homojunctions for Enhanced Photocatalytic Hydrogen Production. Advanced Functional Materials, 2016, 26, 6822-6829.	7.8	583
43	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
44	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
45	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal-Organic Framework. Angewandte Chemie, 2016, 128, 14522-14526.	1.6	174
46	Surface-Plasmon-Enhanced Photodriven CO ₂ Reduction Catalyzed by Metal-Organic Framework-Derived Iron Nanoparticles Encapsulated by Ultrathin Carbon Layers. Advanced Materials, 2016, 28, 3703-3710.	11.1	300
47	Room-temperature driven and visible light enhanced dehydrogenation reactions catalysed by basic Au/SrTiO ₃ . Journal of Materials Chemistry A, 2016, 4, 1941-1946.	5.2	17
48	Active Sites Implanted Carbon Cages in Core-Shell Architecture: Highly Active and Durable Electrocatalyst for Hydrogen Evolution Reaction. ACS Nano, 2016, 10, 684-694.	7.3	426
49	A Co ₃ O ₄ -embedded porous ZnO rhombic dodecahedron prepared using zeolitic imidazolate frameworks as precursors for CO ₂ photoreduction. Nanoscale, 2016, 8, 6712-6720.	2.8	96
50	Engineering coordination polymers for photocatalysis. Nano Energy, 2016, 22, 149-168.	8.2	223
51	Nature-Inspired Environmental Phosphorylation Boosts Photocatalytic H ₂ Production over Carbon Nitride Nanosheets under Visible-Light Irradiation. Angewandte Chemie - International Edition, 2015, 54, 13561-13565.	7.2	287
52	Synthesis and photocatalytic properties of metastable Î ² -Bi ₂ O ₃ stabilized by surface-coordination effects. Journal of Materials Chemistry A, 2015, 3, 5119-5125.	5.2	149
53	Exceptional enhancement of H ₂ production in alkaline environment over plasmonic Au/TiO ₂ photocatalyst under visible light. APL Materials, 2015, 3, .	2.2	16
54	In situ synthesis of ordered mesoporous Co-doped TiO ₂ and its enhanced photocatalytic activity and selectivity for the reduction of CO ₂ . Journal of Materials Chemistry A, 2015, 3, 9491-9501.	5.2	155

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55	A highly durable p-LaFeO ₃ /n-Fe ₂ O ₃ photocell for effective water splitting under visible light. <i>Chemical Communications</i> , 2015, 51, 3630-3633.	2.2	83
56	Efficient visible driven photocatalyst, silver phosphate: performance, understanding and perspective. <i>Chemical Society Reviews</i> , 2015, 44, 7808-7828.	18.7	406
57	Crystal-facet-dependent hot-electron transfer in plasmonic-Au/semiconductor heterostructures for efficient solar photocatalysis. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7538-7542.	2.7	55
58	Band-structure-controlled BiO(ClBr) _{(1-x)/2} I _x solid solutions for visible-light photocatalysis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8123-8132.	5.2	114
59	In situ construction of $\text{Bi}_2\text{O}_3/\text{g-C}_3\text{N}_4/\text{Bi}_2\text{O}_3$ composites and their highly efficient photocatalytic performances. <i>RSC Advances</i> , 2015, 5, 92963-92969.		45
60	Au@Cu ₇ S ₄ yolk-shell nanoparticles as a 980 nm laser-driven photothermal agent with a heat conversion efficiency of 63%. <i>RSC Advances</i> , 2015, 5, 87903-87907.	1.7	34
61	Efficient organic degradation under visible light by Bi_2O_3 with a CuO -assistant electron transfer process. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 267-276.	10.8	47
62	Nanorod-like Bi_2O_3 : a highly active photocatalyst synthesized using $\text{g-C}_3\text{N}_4$ as a template. <i>RSC Advances</i> , 2014, 4, 55062-55066.	1.7	22
63	Yolk-shell structured Fe ₃ O ₄ @C@F-TiO ₂ microspheres with surface fluorinated as recyclable visible-light driven photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 515-522.	10.8	48
64	Photoreduction of CO ₂ over the well-crystallized ordered mesoporous TiO ₂ with the confined space effect. <i>Nano Energy</i> , 2014, 9, 50-60.	8.2	137
65	Fabrication of Ge quantum dots doped TiO ₂ films with high optical absorption properties via layer-by-layer ion-beam sputtering. <i>Materials Letters</i> , 2012, 67, 369-372.	1.3	15
66	Three-dimensional cuprous oxide microtube lattices with high catalytic activity templated by bacterial cellulose nanofibers. <i>Journal of Materials Chemistry</i> , 2011, 21, 10637.	6.7	44