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High performance Au-Cu alloy for enhanced visible-light water splitting driven by coinage metals

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#	Paper	IF	Citations
49	Loading of Co ₃ O ₄ onto Pt-modified nitrogen-doped TiO ₂ nanocomposites promotes photocatalytic hydrogen production. <i>RSC Advances</i> , 2017 , 7, 25650-25656	3.7	18
48	Metal nanoparticles induced photocatalysis. <i>National Science Review</i> , 2017 , 4, 761-780	10.8	103
47	Easily recycled Bi ₂ O ₃ photocatalyst coatings prepared via ball milling followed by calcination. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	6
46	Bimetallic (Au@Cu core)@(ceria shell) nanotubes for photocatalytic oxidation of benzyl alcohol: improved reactivity by Cu. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13382-13391	13	39
45	Bimetallic Au-Cu alloy nanoparticles on reduced graphene oxide support: Synthesis, catalytic activity and investigation of synergistic effect by DFT analysis. <i>Applied Catalysis A: General</i> , 2017 , 538, 107-122	5.1	65
44	Recent Progress in Photocatalytic CO ₂ Reduction Over Perovskite Oxides. <i>Solar Rrl</i> , 2017 , 1, 1700126	7.1	163
43	Effect of Nitrogen Doping Level on the Performance of N-Doped Carbon Quantum Dot/TiO ₂ Composites for Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2017 , 10, 4650-4656	8.3	127
42	Photodriven CO ₂ Reduction Assisted by Surface Plasmon Resonance of Nanometals. <i>Hyomen Kagaku</i> , 2017 , 38, 280-285		1
41	Photocatalytic glycerol oxidation on AuCu@TiO ₂ plasmonic heterostructures. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22005-22012	13	22
40	Photocatalytic hydrogen production over plasmonic AuCu/CaIn ₂ S ₄ composites with different AuCu atomic arrangements. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 322-329	21.8	32
39	Preparation of a novel bimetallic AuCu-P25-rGO ternary nanocomposite with enhanced photocatalytic degradation performance. <i>Applied Catalysis A: General</i> , 2018 , 549, 237-244	5.1	11
38	Towards enhancing photocatalytic hydrogen generation: Which is more important, alloy synergistic effect or plasmonic effect?. <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 77-85	21.8	49
37	Synthesis of Fe ₃ O ₄ @SiO ₂ -Au/Cu magnetic nanoparticles and its efficient catalytic performance for the Ullmann coupling reaction of bromamine acid. <i>Chinese Chemical Letters</i> , 2018 , 29, 1301-1304	8.1	13
36	Photocatalytic hydrogen production by water splitting over Au/Al-SrTiO ₃ . <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 1116-1122	6.7	46
35	Exceptional visible-light activities of g-C ₃ N ₄ nanosheets dependent on the unexpected synergistic effects of prolonging charge lifetime and catalyzing H ₂ evolution with H ₂ O. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 50-58	21.8	41
34	Au and AuCu Nanoparticles Supported on SBA-15 Ordered Mesoporous Titania-Silica as Catalysts for Methylene Blue Photodegradation. <i>Materials</i> , 2018 , 11,	3.5	18
33	CO Preferential Photo-Oxidation in Excess of Hydrogen in Dark and Simulated Solar Light Irradiation over AuCu-Based Catalysts on SBA-15 Mesoporous Silica-Titania. <i>Materials</i> , 2018 , 11,	3.5	8

32	Formation of Enriched Vacancies for Enhanced CO ₂ Electrocatalytic Reduction over AuCu Alloys. <i>ACS Energy Letters</i> , 2018 , 3, 2144-2149	20.1	64
31	Comparison Study of Structural Properties and CO Adsorption on the Cu/Au(111) and Au/Cu(111) Thin Films. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 19551-19559	3.8	7
30	Photocatalytic Sonogashira reaction over silicon carbide supported PdCu alloy nanoparticles under visible light irradiation. <i>Catalysis Science and Technology</i> , 2018 , 8, 3357-3362	5.5	24
29	Cu-Based Nanoparticles as Emerging Environmental Catalysts. <i>Chemical Record</i> , 2019 , 19, 462-473	6.6	17
28	Remarkable Visible-Light Photocatalytic Activity Enhancement over Au/p-type TiO Promoted by Efficient Interfacial Charge Transfer. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24154-24163	9.5	31
27	Effect of TiO ₂ nanoshape on the photoproduction of hydrogen from water-ethanol mixtures over Au ₃ Cu/TiO ₂ prepared with preformed Au-Cu alloy nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2019 , 248, 504-514	21.8	20
26	Copper-nanoparticle-dispersed amorphous BaTiO thin films as hole-trapping centers: enhanced photocatalytic activity and stability.. <i>RSC Advances</i> , 2019 , 9, 5045-5052	3.7	5
25	Cysteamine-capped gold-copper nanoclusters for fluorometric determination and imaging of chromium(VI) and dopamine. <i>Mikrochimica Acta</i> , 2019 , 186, 788	5.8	13
24	Copper nanoparticles selectively encapsulated in an ultrathin carbon cage loaded on SrTiO as stable photocatalysts for visible-light H evolution via water splitting. <i>Chemical Communications</i> , 2019 , 55, 12900-12903	5.8	24
23	Highly efficient Cu induced photocatalysis for visible-light hydrogen evolution. <i>Catalysis Today</i> , 2019 , 335, 166-172	5.3	18
22	Particulate Photocatalysts for Light-Driven Water Splitting: Mechanisms, Challenges, and Design Strategies. <i>Chemical Reviews</i> , 2020 , 120, 919-985	68.1	765
21	Hierarchical growth and morphological control of ordered CuAu alloy arrays with high surface enhanced Raman scattering activity. <i>CrystEngComm</i> , 2020 , 22, 113-118	3.3	3
20	Nitrogen-doped ultrathin graphene encapsulated Cu nanoparticles decorated on SrTiO ₃ as an efficient water oxidation photocatalyst with activity comparable to BiVO ₄ under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119352	21.8	27
19	Voltammetric determination of hydrogen peroxide using AuCu nanoparticles attached on polypyrrole-modified 2D metal-organic framework nanosheets. <i>Mikrochimica Acta</i> , 2020 , 187, 389	5.8	8
18	Thermally tuneable optical and electrochemical properties of Au-Cu nanomosaic formed over the host titanium dimples. <i>Chemical Engineering Journal</i> , 2020 , 399, 125673	14.7	3
17	Hollow AuCu _{1-x} Alloy Nanoshells for Surface-Enhanced Raman-Based Tracking of Bladder Cancer Cells Followed by Triggerable Secretion Removal. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7888-7898	5.6	9
16	Au ₃ Cu nanosquares and frames for glucose sensor and CO oxidation catalyst. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	1
15	Hierarchically porous Cu/Zn bimetallic catalysts for highly selective CO ₂ electroreduction to liquid C ₂ products. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118800	21.8	53

14	Ultrathin graphene encapsulated Cu nanoparticles: A highly stable and efficient catalyst for photocatalytic H ₂ evolution and degradation of isopropanol. <i>Chemical Engineering Journal</i> , 2020 , 390, 124558	14.7	30
13	Ultrathin porous g-C ₃ N ₄ nanosheets modified with AuCu alloy nanoparticles and C-C coupling photothermal catalytic reduction of CO to ethanol. <i>Applied Catalysis B: Environmental</i> , 2020 , 266, 118618	21.8	69
12	Integrating CuO/g-CN p-n heterojunctioned photocathode with MoS QDs@Cu NWs multifunctional signal amplifier for ultrasensitive detection of AD. <i>Biosensors and Bioelectronics</i> , 2021 , 176, 112945	11.8	17
11	Preparation of high surface area Cu-Au bimetallic nanostructured materials by co-electrodeposition in a deep eutectic solvent. <i>Electrochimica Acta</i> , 2021 , 139309	6.7	1
10	Synergistic Effect of Cu Single Atoms and Au-Cu Alloy Nanoparticles on TiO for Efficient CO Photoreduction. <i>ACS Nano</i> , 2021 , 15, 14453-14464	16.7	36
9	Chapter 9: Nanoparticles and Nanocomposites Design in Photocatalysis. <i>RSC Catalysis Series</i> , 2019 , 236-279		1
8	Plasmonic Metal Nanoparticles for Artificial Photosynthesis: Advancements, Mechanisms, and Perspectives. <i>Solar Rrl</i> , 2021 , 5, 2100611	7.1	1
7	Which Is More Efficient in Promoting the Photocatalytic H Evolution Performance of g-CN: Monometallic Nanocrystal, Heterostructural Nanocrystal, or Bimetallic Nanocrystal?. <i>Inorganic Chemistry</i> , 2022 ,	5.1	0
6	Mechanistic insight the visible light driven hydrogen generation by plasmonic Au-Cu alloy mounted on TiO ₂ @B-doped g-C ₃ N ₄ heterojunction photocatalyst. <i>Journal of Alloys and Compounds</i> , 2022 , 909, 164754	5.7	1
5	Metallic Copper-Containing Composite Photocatalysts: Fundamental, Materials Design, and Photoredox Applications.. <i>Small Methods</i> , 2022 , 6, e2101001	12.8	5
4	Facile fabrication metal Cu-decorated g-C ₃ N ₄ photocatalyst with Schottky barrier for efficient pollutant elimination. <i>Diamond and Related Materials</i> , 2022 , 126, 109116	3.5	0
3	Laser Ablation Nanoarchitectonics of AuCu Alloys Deposited on TiO ₂ Photocatalyst Films for Switchable Hydrogen Evolution from Formic Acid Dehydrogenation.		0
2	Solar-Driven Reversible Hydrogen Storage. 2206946		1
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