High performance Auâ€“Cu alloy for enhanced visible-l metals

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Citation Report

#	Article	IF	Citations
1	Loading of Co3O4 onto Pt-modified nitrogen-doped TiO2 nanocomposites promotes photocatalytic hydrogen production. RSC Advances, 2017, 7, 25650-25656.	3.6	21
2	Metal nanoparticles induced photocatalysis. National Science Review, 2017, 4, 761-780.	9.5	161
3	Easily recycled Bi2O3 photocatalyst coatings prepared via ball milling followed by calcination. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	7
4	Bimetallic (Auâ€“Cu core)@(ceria shell) nanotubes for photocatalytic oxidation of benzyl alcohol: improved reactivity by Cu. Journal of Materials Chemistry A, 2017, 5, 13382-13391.	10.3	46
5	Bimetallic Au-Cu alloy nanoparticles on reduced graphene oxide support: Synthesis, catalytic activity and investigation of synergistic effect by DFT analysis. Applied Catalysis A: General, 2017, 538, 107-122.	4.3	81
6	Recent Progress in Photocatalytic CO₂ Reduction Over Perovskite Oxides. Solar Rrl, 2017, 1, 1700126.	5.8	224
7	Effect of Nitrogen Doping Level on the Performance of Nâ€Doped Carbon Quantum Dot/TiO₂ Composites for Photocatalytic Hydrogen Evolution. ChemSusChem, 2017, 10, 4650-4656.	6.8	171
8	Photodriven CO₂ Reduction Assisted by Surface Plasmon Resonance of Nanometals. Hyomen Kagaku, 2017, 38, 280-285.	0.0	1
9	Photocatalytic glycerol oxidation on Au_xCuâ€“CuS@TiO₂ plasmonic heterostructures. Journal of Materials Chemistry A, 2018, 6, 22005-22012.	10.3	41
10	Photocatalytic hydrogen production over plasmonic AuCu/CaIn2S4 composites with different AuCu atomic arrangements. Applied Catalysis B: Environmental, 2018, 224, 322-329.	20.2	41
11	Preparation of a novel bimetallic AuCu-P25-rGO ternary nanocomposite with enhanced photocatalytic degradation performance. Applied Catalysis A: General, 2018, 549, 237-244.	4.3	17
12	Towards enhancing photocatalytic hydrogen generation: Which is more important, alloy synergistic effect or plasmonic effect?. Applied Catalysis B: Environmental, 2018, 221, 77-85.	20.2	59
13	Synthesis of Fe3O4@SiO2-Au/Cu magnetic nanoparticles and its efficient catalytic performance for the Ullmann coupling reaction of bromamine acid. Chinese Chemical Letters, 2018, 29, 1301-1304.	9.0	19
14	Photocatalytic hydrogen production by water splitting over Au/Al-SrTiO3. International Journal of Hydrogen Energy, 2018, 43, 1116-1122.	7.1	72
15	Exceptional visible-light activities of g-C3N4 nanosheets dependent on the unexpected synergistic effects of prolonging charge lifetime and catalyzing H2 evolution with H2O. Applied Catalysis B: Environmental, 2018, 237, 50-58.	20.2	51
16	Au and AuCu Nanoparticles Supported on SBA-15 Ordered Mesoporous Titania-Silica as Catalysts for Methylene Blue Photodegradation. Materials, 2018, 11, 890.	2.9	25
17	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. Materials, 2018, 11, 1203.	2.9	8
18	Formation of Enriched Vacancies for Enhanced CO₂ Electrocatalytic Reduction over AuCu Alloys. ACS Energy Letters, 2018, 3, 2144-2149.	17.4	88

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19	Comparison Study of Structural Properties and CO Adsorption on the Cu/Au(111) and Au/Cu(111) Thin Films. Journal of Physical Chemistry C, 2018, 122, 19551-19559.	3.1	9
20	Photocatalytic Sonogashira reaction over silicon carbide supported Pdâ€“Cu alloy nanoparticles under visible light irradiation. Catalysis Science and Technology, 2018, 8, 3357-3362.	4.1	39
21	Cuâ€Based Nanoparticles as Emerging Environmental Catalysts. Chemical Record, 2019, 19, 462-473.	5.8	31
22	Remarkable Visible-Light Photocatalytic Activity Enhancement over Au/p-type TiO₂ Promoted by Efficient Interfacial Charge Transfer. ACS Applied Materials & Interfaces, 2019, 11, 24154-24163.	8.0	53
23	Effect of TiO2 nanoshape on the photoproduction of hydrogen from water-ethanol mixtures over Au3Cu/TiO2 prepared with preformed Au-Cu alloy nanoparticles. Applied Catalysis B: Environmental, 2019, 248, 504-514.	20.2	25
24	Copper-nanoparticle-dispersed amorphous BaTiO₃ thin films as hole-trapping centers: enhanced photocatalytic activity and stability. RSC Advances, 2019, 9, 5045-5052.	3.6	6
25	Cysteamine-capped gold-copper nanoclusters for fluorometric determination and imaging of chromium(VI) and dopamine. Mikrochimica Acta, 2019, 186, 788.	5.0	32
26	Copper nanoparticles selectively encapsulated in an ultrathin carbon cage loaded on SrTiO₃ as stable photocatalysts for visible-light H₂ evolution via water splitting. Chemical Communications, 2019, 55, 12900-12903.	4.1	37
27	Highly efficient Cu induced photocatalysis for visible-light hydrogen evolution. Catalysis Today, 2019, 335, 166-172.	4.4	29
28	Particulate Photocatalysts for Light-Driven Water Splitting: Mechanisms, Challenges, and Design Strategies. Chemical Reviews, 2020, 120, 919-985.	47.7	1,605
29	Hierarchical growth and morphological control of ordered Cuâ€“Au alloy arrays with high surface enhanced Raman scattering activity. CrystEngComm, 2020, 22, 113-118.	2.6	12
30	Nitrogen-doped ultrathin graphene encapsulated Cu nanoparticles decorated on SrTiO3 as an efficient water oxidation photocatalyst with activity comparable to BiVO4 under visible-light irradiation. Applied Catalysis B: Environmental, 2020, 279, 119352.	20.2	47
31	Voltammetric determination of hydrogen peroxide using AuCu nanoparticles attached on polypyrrole-modified 2D metal-organic framework nanosheets. Mikrochimica Acta, 2020, 187, 389.	5.0	11
32	Thermally tuneable optical and electrochemical properties of Au-Cu nanomosaic formed over the host titanium dimples. Chemical Engineering Journal, 2020, 399, 125673.	12.7	10
33	Hollow Au_xCu_{1â€“x} Alloy Nanoshells for Surface-Enhanced Raman-Based Tracking of Bladder Cancer Cells Followed by Triggerable Secretion Removal. ACS Applied Nano Materials, 2020, 3, 7888-7898.	5.0	16
34	Au3Cu nanosquares and frames for glucose sensor and CO oxidation catalyst. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	2
35	Hierarchically porous Cu/Zn bimetallic catalysts for highly selective CO2 electroreduction to liquid C2 products. Applied Catalysis B: Environmental, 2020, 269, 118800.	20.2	108
36	Ultrathin graphene encapsulated Cu nanoparticles: A highly stable and efficient catalyst for photocatalytic H2 evolution and degradation of isopropanol. Chemical Engineering Journal, 2020, 390, 124558.	12.7	55

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37	Ultrathin porous g-C3N4 nanosheets modified with AuCu alloy nanoparticles and C-C coupling photothermal catalytic reduction of CO to ethanol. Applied Catalysis B: Environmental, 2020, 266, 118618.	20.2	129
38	Integrating CuO/g-C3N4 p-n heterojunctioned photocathode with MoS2 QDs@Cu NWs multifunctional signal amplifier for ultrasensitive detection of Aî²O. Biosensors and Bioelectronics, 2021, 176, 112945.	10.1	39
39	Preparation of high surface area Cuâ€Au bimetallic nanostructured materials by coâ€electrodeposition in a deep eutectic solvent. Electrochimica Acta, 2021, 398, 139309.	5.2	9
40	Synergistic Effect of Cu Single Atoms and Auâ€“Cu Alloy Nanoparticles on TiO₂ for Efficient CO₂ Photoreduction. ACS Nano, 2021, 15, 14453-14464.	14.6	236
41	Nanoparticles and Nanocomposites Design in Photocatalysis. RSC Catalysis Series, 2019, , 236-279.	0.1	1
42	Plasmonic Metal Nanoparticles for Artificial Photosynthesis: Advancements, Mechanisms, and Perspectives. Solar Rrl, 2021, 5, 2100611.	5.8	12
43	Which Is More Efficient in Promoting the Photocatalytic H₂ Evolution Performance of g-C₃N₄: Monometallic Nanocrystal, Heterostructural Nanocrystal, or Bimetallic Nanocrystal?. Inorganic Chemistry, 2022, 61, 4760-4768.	4.0	2
44	Mechanistic insight the visible light driven hydrogen generation by plasmonic Au-Cu alloy mounted on TiO2 @B-doped g-C3N4 heterojunction photocatalyst. Journal of Alloys and Compounds, 2022, 909, 164754.	5.5	16
45	Metallic Copperâ€Containing Composite Photocatalysts: Fundamental, Materials Design, and Photoredox Applications. Small Methods, 2022, 6, e2101001.	8.6	18
46	Facile fabrication metal Cu-decorated g-C3N4 photocatalyst with Schottky barrier for efficient pollutant elimination. Diamond and Related Materials, 2022, 126, 109116.	3.9	6
47	Laser Ablation Nanoarchitectonics of Auâ€“Cu Alloys Deposited on TiO₂ Photocatalyst Films for Switchable Hydrogen Evolution from Formic Acid Dehydrogenation. ACS Omega, 2022, 7, 31260-31270.	3.5	9
48	Solarâ€Driven Reversible Hydrogen Storage. Advanced Materials, 2023, 35, .	21.0	23
49	Steering photocatalytic selectivity of Au/Î³-Al2O3 for benzyl alcohol oxidation via direct photoexcitation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 667, 131392.	4.7	4
50	Engineering versatile Au-based catalysts for solar-to-fuel conversion. Journal of Energy Chemistry, 2023, 83, 341-362.	12.9	8
51	Ultrastable Goldâ€“Copper Nanoclusters on Nitrogen-Doped Graphene Quantum Dots for Selective Electrochemical and Fluorescence Sensing of Glycine. ACS Applied Nano Materials, 2023, 6, 9404-9414.	5.0	3
52	Plasmonic nanomaterials for solar-driven photocatalysis. Chemical Communications, 2023, 59, 7704-7716.	4.1	5
53	Boosted Câ€“C coupling with Cuâ€“Ag alloy sub-nanoclusters for CO ₂ -to-C ₂ H ₄ photosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	7.1	2
54	Tuning the microstructure, mechanical properties, tribological and electrical contact behavior by Cu doping for gold-based coating. Tribology International, 2024, 191, 109193.	5.9	2