

Synthesis of Cu₂O Nanocrystals from Cubic Structures and Their Comparative Photocatalytic Activity

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Crystal cuts on the nanoscale. <i>Nature</i> , 2012, 482, 41-42.	13.7	51
3	Self-Assembly of Copper Oxide Core-Shell Nanowires Through Ethyl Alcohol. , 0, , .		0
4	Cu ₂ O and Au/Cu ₂ O Particles: Surface Properties and Applications in Glucose Sensing. <i>Sensors</i> , 2012, 12, 13019-13033.	2.1	61
5	Facile synthesis of p-type Cu ₂ O/n-type ZnO nano-heterojunctions with novel photoluminescence properties, enhanced field emission and photocatalytic activities. <i>Nanoscale</i> , 2012, 4, 7817.	2.8	68
6	A Truncated Manganese Spinel Cathode for Excellent Power and Lifetime in Lithium-Ion Batteries. <i>Nano Letters</i> , 2012, 12, 6358-6365.	4.5	272
7	Selective growth of Au nanograins on specific positions (tips, edges and facets) of Cu ₂ O octahedrons to form Cu ₂ O@Au hierarchical heterostructures. <i>Dalton Transactions</i> , 2012, 41, 13795.	1.6	31
8	pH-assisted crystallization of Cu ₂ O: chemical reactions control the evolution from nanowires to polyhedra. <i>CrystEngComm</i> , 2012, 14, 8068.	1.3	94
9	Equal-parenting policy. <i>Nature</i> , 2012, 482, 42-43.	13.7	4
10	Tuning of the Surface-Exposing and Photocatalytic Activity for AgX (X = Cl and Br): A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19372-19378.	1.5	31
11	Morphology Control of Nanostructures: Na-Doped PbTe@PbS System. <i>Nano Letters</i> , 2012, 12, 5979-5984.	4.5	100
12	Crystallization behavior and formation mechanism of dendrite Cu ₂ O crystals. <i>CrystEngComm</i> , 2012, 14, 8017.	1.3	24
13	Synthesis of ZnSnO ₃ mesocrystals from regular cube-like to sheet-like structures and their comparative electrochemical properties in Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 25373.	6.7	91
14	Fast Synthesis of PbS Nanocrystals in Aqueous Solution with Shape Evolution from Cubic to Octahedral Structures and Their Assembled Structures. <i>Chemistry - A European Journal</i> , 2012, 18, 14473-14478.	1.7	29
15	A Facile Top-Down Etching To Create a Cu ₂ O Jagged Polyhedron Covered with Numerous {110} Edges and {111} Corners with Enhanced Photocatalytic Activity. <i>Chemistry - A European Journal</i> , 2012, 18, 14261-14266.	1.7	67
16	(Zn,H)-codoped copper oxide nanoparticles via pulsed laser ablation on Cu-Zn alloy in water. <i>Nanoscale Research Letters</i> , 2012, 7, 272.	3.1	13
17	Mesocrystalline Cu ₂ O hollow nanocubes: synthesis and application in non-enzymatic amperometric detection of hydrogen peroxide and glucose. <i>CrystEngComm</i> , 2012, 14, 6639.	1.3	91
18	Polyhedral Cu ₂ O particles: shape evolution and catalytic activity on cross-coupling reaction of iodobenzene and phenol. <i>CrystEngComm</i> , 2012, 14, 8454.	1.3	33
19	Shape-controlled synthesis of polyhedral 50-facet Cu ₂ O microcrystals with high-index facets. <i>CrystEngComm</i> , 2012, 14, 4431.	1.3	70

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20	Facet-Dependent Catalytic Activity of Gold Nanocubes, Octahedra, and Rhombic Dodecahedra toward 4-Nitroaniline Reduction. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23757-23763.	1.5	199
21	Selective Synthesis of Cu ₂ O Nanocrystals as Shape-Dependent Catalysts for Oxidative Arylation of Phenylacetylene. <i>Chemistry - A European Journal</i> , 2012, 18, 10491-10496.	1.7	74
22	Shape-controlled synthesis of Cu ₂ O nano/microcrystals and their antibacterial activity. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 1842-1847.	1.9	64
23	One-dimensional metal oxide nanostructures for heterogeneous catalysis. <i>Nanoscale</i> , 2013, 5, 7175.	2.8	38
24	Co ₃ O ₄ nanocrystals with predominantly exposed facets: synthesis, environmental and energy applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14427.	5.2	147
25	First-principles study on the doping effects of nitrogen on the electronic structure and optical properties of Cu ₂ O. <i>RSC Advances</i> , 2013, 3, 84-90.	1.7	35
26	Morphology dependent photosensitization and formation of singlet oxygen (¹ O ₂) by gold and silver nanoparticles and its application in cancer treatment. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4379.	2.9	88
27	Microwave-assisted growth of WO ₃ ·0.33H ₂ O micro/nanostructures with enhanced visible light photocatalytic properties. <i>CrystEngComm</i> , 2013, 15, 7904.	1.3	34
28	Continuous Mesoporous Titania Nanocrystals: Their Growth in Confined Space and Scope for Application. <i>ChemSusChem</i> , 2013, 6, 2039-2041.	3.6	5
29	Controllable growth and photocatalytic activity of Cu ₂ O solid microspheres. <i>Materials Research Bulletin</i> , 2013, 48, 3431-3437.	2.7	8
30	Zn ²⁺ -assisted synthesis of concave Cu ₂ O crystals and enhanced photocatalytic properties. <i>Catalysis Communications</i> , 2013, 42, 109-112.	1.6	15
31	Fabrication of Diverse Cu ₂ O Nanoframes through Face-Selective Etching. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24611-24617.	1.5	50
32	Synthesis of anatase TiO ₂ nanocrystals with {101}, {001} or {010} single facets of 90% level exposure and liquid-phase photocatalytic reduction and oxidation activity orders. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10532.	5.2	147
33	Facet-Dependent Catalytic Activity of Cu ₂ O Nanocrystals in the One-Pot Synthesis of 1,2,3-Triazoles by Multicomponent Click Reactions. <i>Chemistry - A European Journal</i> , 2013, 19, 16036-16043.	1.7	143
34	Facet-dependent electrochemical properties of Co ₃ O ₄ nanocrystals toward heavy metal ions. <i>Scientific Reports</i> , 2013, 3, 2886.	1.6	105
35	Designed synthesis of hematite-based nanosorbents for dye removal. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9837.	5.2	73
36	Metal ion-assisted reshaping of Cu ₂ O nanocrystals for catalytic applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14183.	5.2	14
37	Structure evolution and SERS activation of cuprous oxide microcrystals via chemical etching. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8790.	5.2	24

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38	A new strategy for the surface-free-energy-distribution induced selective growth and controlled formation of $\text{Cu}_2\text{O}@\text{Au}$ hierarchical heterostructures with a series of morphological evolutions. <i>Journal of Materials Chemistry A</i> , 2013, 1, 919-929.	5.2	84
39	Investigation of facet effects on the catalytic activity of Cu_2O nanocrystals for efficient regioselective synthesis of 3,5-disubstituted isoxazoles. <i>Nanoscale</i> , 2013, 5, 12494.	2.8	64
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41	Efficient photocatalytic degradation of gaseous formaldehyde by the TiO_2 /tourmaline composites. <i>Materials Research Bulletin</i> , 2013, 48, 3743-3749.	2.7	35
42	Three-dimensional $\text{Ag}/\text{POM}/\text{Cu}_2\text{O}$ tricomponent nano hybrids with enhanced visible-light photocatalytic activity. <i>Materials Letters</i> , 2013, 99, 68-71.	1.3	10
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45	Graphene wrapped Cu_2O nanocubes: Non-enzymatic electrochemical sensors for the detection of glucose and hydrogen peroxide with enhanced stability. <i>Biosensors and Bioelectronics</i> , 2013, 45, 206-212.	5.3	687
46	Conversion of Metallic Single-Walled Carbon Nanotube Networks to Semiconducting through Electrochemical Ornamentation. <i>Journal of the American Chemical Society</i> , 2013, 135, 7511-7522.	6.6	9
47	Chemical Regulation of Carbon Quantum Dots from Synthesis to Photocatalytic Activity. <i>Chemistry - an Asian Journal</i> , 2013, 8, 1035-1041.	1.7	152
48	Emerging Strategies for the Total Synthesis of Inorganic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6154-6178.	7.2	184
49	Controlled synthesis of concave Cu_2O microcrystals enclosed by {hhl} high-index facets and enhanced catalytic activity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 282-287.	5.2	98
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51	Growth of Concave Polyhedral Pd Nanocrystals with 32 Facets Through In Situ Facet-Selective Etching. <i>ChemSusChem</i> , 2013, 6, 1893-1897.	3.6	17
52	A facile strategy for crystal engineering of Cu_2O polyhedrons with high-index facets. <i>CrystEngComm</i> , 2013, 15, 1849.	1.3	36
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55	Facile synthesis of uniform $\gamma\text{-Fe}_2\text{O}_3$ crystals and their facet-dependent catalytic performance in the photo-Fenton reaction. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7242.	5.2	92

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57	Enhanced Photocatalytic Oxygen Evolution by Crystal Cutting. <i>Advanced Materials</i> , 2013, 25, 2035-2039.	11.1	49
58	Achieving polyhedral nanocrystal growth with systematic shape control. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8081.	5.2	60
59	Concave trisoctahedral Ag ₃ PO ₄ microcrystals with high-index facets and enhanced photocatalytic properties. <i>Chemical Communications</i> , 2013, 49, 636-638.	2.2	137
60	Nanophotocatalysts via microwave-assisted solution-phase synthesis for efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8299.	5.2	107
61	AgBr Nanocrystals from Plates to Cubes and Their Photocatalytic Properties. <i>ChemCatChem</i> , 2013, 5, 1426-1430.	1.8	13
62	Tuning Activities of K _{1.9} Na _{0.1} Ta ₂ O ₆ ·2H ₂ O Nanocrystals in Photocatalysis by Controlling Exposed Facets. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10260-10265.	4.0	16
63	Morphology Change in Cuprous Oxide Particle Synthesis with PVP: Effect of Reaction Temperature. <i>Advanced Materials Research</i> , 0, 873, 147-151.	0.3	0
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65	TEMPLATE STRATEGY FOR THE SYNTHESIS OF Cu ₂ O@Pt HIERARCHICAL HETEROSTRUCTURES FOR THE DEGRADATION OF METHYLENE BLUE. <i>Nano</i> , 2013, 08, 1350062.	0.5	5
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69	Investigation of Adsorption Behavior of Cu ₂ O Submicro-Octahedra towards Congo Red. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-6.	1.5	8
70	Controllable synthesis of two different morphologies of Cu ₂ O particles with the assistance of carbon dots. <i>RSC Advances</i> , 2014, 4, 16524-16527.	1.7	7
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74	Cubic In ₂ O ₃ Microparticles for Efficient Photoelectrochemical Oxygen Evolution. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4298-4304.	2.1	49
75	Shape-dependent photocatalytic activity of Bi ₅ O ₇ I caused by facets synergetic and internal electric field effects. <i>RSC Advances</i> , 2014, 4, 65056-65064.	1.7	36

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76	Enhanced Photodegradation of Methyl Orange Synergistically by Microcrystal Facet Cutting and Flexible Electrically-Conducting Channels. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28063-28068.	1.5	23
78	Green synthesis and characterization of cuprous oxide nanoparticles in presence of a bio-surfactant. <i>Materials Science-Poland</i> , 2014, 32, 702-708.	0.4	33
79	A scalable synthesis technique of hierarchical BiOBr microspheres for advanced visible light photocatalyst. <i>Materials Letters</i> , 2014, 136, 438-440.	1.3	13
80	Temperature dependence on p-Cu ₂ O thin film electrochemically deposited onto copper substrate. <i>Applied Surface Science</i> , 2014, 301, 369-377.	3.1	44
81	Room temperature additive-free synthesis of uniform Cu ₂ O nanocubes with tunable size from 20 nm to 500 nm and photocatalytic property. <i>Materials Letters</i> , 2014, 114, 88-91.	1.3	30
82	Synthesis of micro-nano heterostructure AgBr/ZnO composite for advanced visible light photocatalysis. <i>Materials Letters</i> , 2014, 130, 5-8.	1.3	48
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86	Synergistic effect over photocatalytic active Cu ₂ O thin films and their morphological and orientational transformation under visible light irradiation. <i>Applied Catalysis A: General</i> , 2014, 470, 294-302.	2.2	29
87	Facet-dependent optical properties of polyhedral Au@Cu ₂ O core-shell nanocrystals. <i>Nanoscale</i> , 2014, 6, 4316.	2.8	81
88	Synthesis and sonocatalytic property of rod-shape Sr(OH) ₂ ·8H ₂ O. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1318-1324.	3.8	15
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91	LaMer diagram approach to study the nucleation and growth of Cu ₂ O nanoparticles using supersaturation theory. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 2020-2026.	1.2	12
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93	Comparative Photocatalytic Properties of Cu ₂ O from Octahedron to Sphere Structures. <i>Key Engineering Materials</i> , 2014, 609-610, 45-50.	0.4	2
94	In situ synthesis of a reduced graphene oxide/cuprous oxide nanocomposite: a reusable catalyst. <i>RSC Advances</i> , 2014, 4, 52044-52052.	1.7	57
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98	Effect of Au Nanorods on Potential Barrier Modulation in Morphologically Controlled Au@Cu ₂ O Core-Shell Nanoreactors for Gas Sensor Applications. ACS Applied Materials & Interfaces, 2014, 6, 7491-7497.	4.0	75
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121	Synthesis of iron oxide/manganese oxide composite particles and their magnetic properties. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	5
122	Graphene oxide stabilized Cu ₂ O for shape selective nanocatalysis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7147.	5.2	28
123	Synthesis of Rhombic Dodecahedral Fe ₃ O ₄ Nanocrystals with Exposed High-Energy {110} Facets and Their Peroxidase-like Activity and Lithium Storage Properties. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12588-12598.	1.5	67
124	Heterojunction of facet coupled g-C ₃ N ₄ /surface-fluorinated TiO ₂ nanosheets for organic pollutants degradation under visible LED light irradiation. <i>Applied Catalysis B: Environmental</i> , 2014, 156-157, 331-340.	10.8	316
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131	Universal Sulfide-Assisted Synthesis of Ag Heterodimers (M = Pd, Au, Pt) as Efficient Platforms for Fabricating Metal-Semiconductor Heteronanostructures. <i>Journal of the American Chemical Society</i> , 2014, 136, 5221-5224.	6.6	42

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136	Stabilization of Catalytically Active Cu ⁺ Surface Sites on Titanium-Copper Mixed Oxide Films. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5336-5340.	7.2	51
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138	Facet-Controlled Synthetic Strategy of Cu ₂ O-Based Crystals for Catalysis and Sensing. <i>Advanced Science</i> , 2015, 2, 1500140.	5.6	175
139	Investigation of reactions between trace gases and functional CuO nanospheres and octahedrons using NEXAFS-TXM imaging. <i>Scientific Reports</i> , 2015, 5, 17729.	1.6	29
140	Synthesis of Hierarchical Nanoporous Microstructures via the Kirkendall Effect in Chemical Reduction Process. <i>Scientific Reports</i> , 2015, 5, 16061.	1.6	21
141	Identification of nitrogen acceptor in Cu ₂ O: First-principles study. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	17
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