

# Cu and Cu-Based Nanoparticles: Synthesis and Application

Chemical Reviews

116, 3722-3811

DOI: 10.1021/acs.chemrev.5b00482

Citation Report

#	ARTICLE	IF	CITATIONS
1	Synthesis of Copper Nanoparticles in Ethylene Glycol by Chemical Reduction with Vanadium (+2) Salts. <i>Materials</i> , 2016, 9, 809.	2.9	42
2	Rapid synthesis of ultralong Fe(OH) <sub>3</sub> :Cu(OH) <sub>2</sub> core-shell nanowires self-supported on copper foam as a highly efficient 3D electrode for water oxidation. <i>Chemical Communications</i> , 2016, 52, 14470-14473.	4.1	68
3	Room Temperature Synthesis of Copper Oxide Nanoparticles: Morphological Evaluation and Their Catalytic Applications for Degradation of Dyes and C-N Bond Formation Reaction. <i>ChemistrySelect</i> , 2016, 1, 6297-6307.	1.5	35
4	Theoretical Study of the Structural, Energetic, and Electronic Properties of 55-Atom Metal Nanoclusters: A DFT Investigation within van der Waals Corrections, Spin-Orbit Coupling, and PBE+U of 42 Metal Systems. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28844-28856.	3.1	75
5	Carbon nitride supported copper nanoparticles: light-induced electronic effect of the support for triazole synthesis. <i>Royal Society Open Science</i> , 2016, 3, 160580.	2.4	25
6	Non-Hydrothermal Synthesis of Cu(I)-Microleaves from Cu(II)-Nanorods. <i>ChemistrySelect</i> , 2016, 1, 6606-6615.	1.5	3
7	Cu and Cu-Based Nanoparticles: Synthesis and Applications in Catalysis. <i>Chemical Reviews</i> , 2016, 116, 3722-3811.	47.7	2,051
8	Transamidation catalysed by a magnetically separable Fe <sub>3</sub> O <sub>4</sub> nano catalyst under solvent-free conditions. <i>RSC Advances</i> , 2016, 6, 52724-52728.	3.6	19
9	Surface Plasmon-Mediated Chemical Solution Deposition of Cu Nanoparticle Films. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20775-20780.	3.1	10
10	Highly selective colorimetric cysteine sensor based on the formation of cysteine layer on copper nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2016, 233, 431-437.	7.8	48
11	Ultrafast SET-LRP of hydrophobic acrylates in multiphase alcohol-water mixtures. <i>Polymer Chemistry</i> , 2016, 7, 3608-3621.	3.9	40
12	Cu ion-exchanged and Cu nanoparticles decorated mesoporous ZSM-5 catalysts for the activation and utilization of phenylacetylene in a sustainable chemical synthesis. <i>RSC Advances</i> , 2016, 6, 87066-87081.	3.6	14
13	Harnessing the Dual Properties of Thiol-Grafted Cellulose Paper for Click Reactions: A Powerful Reducing Agent and Adsorbent for Cu. <i>Angewandte Chemie</i> , 2016, 128, 13747-13750.	2.0	4
14	Highly Stable Copper Nanoparticles Linked to Organic Frameworks as Recyclable Catalyst for Three-Component Click Cycloaddition in Water. <i>ChemistrySelect</i> , 2016, 1, 4803-4813.	1.5	5
15	Small and well-dispersed Cu nanoparticles on carbon nanofibers: Self-supported electrode materials for efficient hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18044-18049.	7.1	47
16	Fabrication of different copper nanostructures on indium-tin-oxide electrodes: shape dependent electrocatalytic activity. <i>CrystEngComm</i> , 2016, 18, 8696-8708.	2.6	14
17	Harnessing the Dual Properties of Thiol-Grafted Cellulose Paper for Click Reactions: A Powerful Reducing Agent and Adsorbent for Cu. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13549-13552.	13.8	27
18	Adsorption behavior and reduction of copper (II) acetate on the surface of detonation nanodiamond with well defined surface chemistry. <i>Carbon</i> , 2016, 109, 98-105.	10.3	22

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19	Facile synthesis of porous CuO polyhedron from Cu-based metal organic framework (MOF-199) for electrocatalytic water oxidation. RSC Advances, 2016, 6, 77358-77365.	3.6	51
20	Impregnated Copper(II) Oxide on Magnetite as Catalyst for the Synthesis of Benzo[ <i>b</i> ]furans from 2-Hydroxyarylcarbonyl Derivatives and Alkynes. European Journal of Organic Chemistry, 2016, 2016, 4354-4360.	2.4	6
21	Enhanced Reduction of CO <sub>2</sub> to CO over Cu <sup>0</sup> in Electrocatalysts: Catalyst Evolution Is the Key. ACS Catalysis, 2016, 6, 6265-6274.	11.2	170
22	Direct C-H Arylation of Heteroarenes with Copper Impregnated on Magnetite as a Reusable Catalyst: Evidence for CuO Nanoparticle Catalysis in Solution. ACS Catalysis, 2016, 6, 5954-5961.	11.2	60
23	Ultrafast SET-LRP in biphasic mixtures of the non-disproportionating solvent acetonitrile with water. Polymer Chemistry, 2016, 7, 5930-5942.	3.9	29
24	Facile synthesis and characterization of beta lactoglobulin-copper nanocomposites having antibacterial applications. RSC Advances, 2016, 6, 85340-85346.	3.6	4
25	Self-Supported Cedarlike Semimetallic Cu <sub>3</sub> P Nanoarrays as a 3D High-Performance Janus Electrode for Both Oxygen and Hydrogen Evolution under Basic Conditions. ACS Applied Materials & Interfaces, 2016, 8, 23037-23048.	8.0	170
26	Surface Sites in Cu-Nanoparticles: Chemical Reactivity or Microscopy?. Journal of Physical Chemistry Letters, 2016, 7, 3259-3263.	4.6	30
27	Silica-Supported Cu Nanoparticle Catalysts for Alkyne Semihydrogenation: Effect of Ligands on Rates and Selectivity. Journal of the American Chemical Society, 2016, 138, 16502-16507.	13.7	135
28	Oriented Pt Nanoparticles Supported on Few-Layers Graphene as Highly Active Catalyst for Aqueous-Phase Reforming of Ethylene Glycol. ACS Applied Materials & Interfaces, 2016, 8, 33690-33696.	8.0	17
29	Towards scanning probe lithography-based 4D nanoprinting by advancing surface chemistry, nanopatterning strategies, and characterization protocols. Chemical Society Reviews, 2016, 45, 6289-6310.	38.1	39
30	Chiral Ligand-Modified Metal Nanoparticles as Unique Catalysts for Asymmetric C-C Bond-Forming Reactions: How Are Active Species Generated?. ACS Catalysis, 2016, 6, 7979-7988.	11.2	59
31	Continuous catalytic upgrading of ethanol to n-butanol over Cu <sup>0</sup> /CeO <sub>2</sub> /AC catalysts. Chemical Communications, 2016, 52, 13749-13752.	4.1	60
32	Flexibility Matters: Cooperative Active Sites in Covalent Organic Framework and Threaded Ionic Polymer. Journal of the American Chemical Society, 2016, 138, 15790-15796.	13.7	414
33	Self-assembled monolayer structures of hexadecylamine on Cu surfaces: density-functional theory. Physical Chemistry Chemical Physics, 2016, 18, 32753-32761.	2.8	31
34	Cobalt Oxide (CoO <sub>x</sub> ) as an Efficient Hole-Extracting Layer for High-Performance Inverted Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 33592-33600.	8.0	122
35	D-Glucose: An Efficient Reducing Agent for a Copper(II)-Mediated Arylation of Primary Amines in Water. ChemSusChem, 2016, 9, 3244-3249.	6.8	30
36	Key Non-Metal Ingredients for Cu-catalyzed C-Click-Reactions in Glycerol: Nanoparticles as Efficient Forwarders. Chemistry - A European Journal, 2016, 22, 18247-18253.	3.3	21

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37	CuO nanostructures of variable shapes as an efficient catalyst for [3 + 2] cycloaddition of azides with terminal alkyne. RSC Advances, 2016, 6, 102733-102743.	3.6	18
38	An easily accessible and recyclable copper nanoparticle catalyst for the solvent-free synthesis of dipyrromethanes and aromatic amines. RSC Advances, 2016, 6, 103065-103071.	3.6	12
39	Matrix Sputtering into Liquid Mercaptan: From Blue-Emitting Copper Nanoclusters to Red-Emitting Copper Sulfide Nanoclusters. Langmuir, 2016, 32, 12159-12165.	3.5	16
41	Ultra-uniform CuO/Cu in nitrogen-doped carbon nanofibers as a stable anode for Li-ion batteries. Journal of Materials Chemistry A, 2016, 4, 10585-10592.	10.3	59
42	Mild oxidative C-H functionalization of alkanes and alcohols using a magnetic core-shell Fe <sub>3</sub> O <sub>4</sub> @mSiO <sub>2</sub> @Cu <sub>4</sub> nanocatalyst. Journal of Molecular Catalysis A, 2017, 426, 343-349.	4.8	20
43	The recent development of efficient Earth-abundant transition-metal nanocatalysts. Chemical Society Reviews, 2017, 46, 816-854.	38.1	458
44	Kinetics of copper growth on graphene revealed by time-resolved small-angle x-ray scattering. Physical Review B, 2017, 95, .	3.2	7
45	Copper nanoparticles catalyzed N-H functionalization: An efficient solvent-free N-tert-butyloxycarbonylation strategy. Tetrahedron Letters, 2017, 58, 629-633.	1.4	4
46	In Situ Fabricated Cu-Ag Nanoparticle-Embedded Polymer Thin Film as an Efficient Broad Spectrum SERS Substrate. Journal of Physical Chemistry C, 2017, 121, 1339-1348.	3.1	25
47	A new view for nanoparticle assemblies: from crystalline to binary cooperative complementarity. Chemical Society Reviews, 2017, 46, 1483-1509.	38.1	77
48	Chitosan-based film supported copper nanoparticles: A potential and reusable catalyst for the reduction of aromatic nitro compounds. Carbohydrate Polymers, 2017, 161, 187-196.	10.2	70
49	pH-Guided Self-Assembly of Copper Nanoclusters with Aggregation-Induced Emission. ACS Applied Materials & Interfaces, 2017, 9, 3902-3910.	8.0	138
50	Nitrogen-Doped Graphene as a Robust Scaffold for the Homogeneous Deposition of Copper Nanostructures: A Nonenzymatic Disposable Glucose Sensor. ACS Sustainable Chemistry and Engineering, 2017, 5, 1648-1658.	6.7	77
51	Enhanced CO <sub>2</sub> electroreduction on armchair graphene nanoribbons edge-decorated with copper. Nano Research, 2017, 10, 1641-1650.	10.4	35
52	Enhanced Activity of Ag Nanoplatelets on Few Layers of Graphene Film with Preferential Orientation for Dehydrogenative Silane-Alcohol Coupling. ACS Sustainable Chemistry and Engineering, 2017, 5, 2400-2406.	6.7	11
53	Formation and evolution of nanoporous bimetallic Ag-Cu alloy by electrochemically dealloying Mg-(Ag-Cu)-Y metallic glass. Corrosion Science, 2017, 119, 23-32.	6.6	34
54	Metal organic frameworks as precursors for the manufacture of advanced catalytic materials. Materials Chemistry Frontiers, 2017, 1, 1709-1745.	5.9	252
55	In-situ deposition of Cu <sub>2</sub> O micro-needles for biologically active textiles and their release properties. Carbohydrate Polymers, 2017, 165, 255-265.	10.2	81

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56	Iron-Oxide-Supported Ultrasmall ZnO Nanoparticles: Applications for Transesterification, Amidation, and O-Acylation Reactions. ACS Sustainable Chemistry and Engineering, 2017, 5, 3314-3320.	6.7	21
57	Synthesis and characterization of NiFe <sub>2</sub> O <sub>4</sub> @Cu nanoparticles as a magnetically recoverable catalyst for reduction of nitroarenes to arylamines with NaBH <sub>4</sub> . Journal of Colloid and Interface Science, 2017, 500, 285-293.	9.4	46
58	In vitro evaluation of cytotoxicity, possible alteration of apoptotic regulatory proteins, and antibacterial activity of synthesized copper oxide nanoparticles. Colloids and Surfaces B: Biointerfaces, 2017, 153, 320-326.	5.0	47
59	Mimicking Horseradish Peroxidase Functions Using Cu <sup>2+</sup> -Modified Carbon Nitride Nanoparticles or Cu <sup>2+</sup> -Modified Carbon Dots as Heterogeneous Catalysts. ACS Nano, 2017, 11, 3247-3253.	14.6	279
60	CuO/Graphene Oxide Nanocomposite as Highly Active and Durable Catalyst for Selective Oxidation of Cyclohexane. ChemistrySelect, 2017, 2, 2277-2281.	1.5	18
61	Dual role of Cu <sub>2</sub> O nanocubes as templates and networking catalysts for hollow and microporous Fe-porphyrin networks. Chemical Communications, 2017, 53, 2598-2601.	4.1	18
62	Hexagonal Mesoporous Silica-Supported Copper Oxide (CuO/HMS) Catalyst: Synthesis of Primary Amides from Aldehydes in Aqueous Medium. ChemPlusChem, 2017, 82, 467-473.	2.8	18
63	Framework Cu-doped AlPO <sub>4</sub> as an effective Fenton-like catalyst for bisphenol A degradation. Applied Catalysis B: Environmental, 2017, 207, 9-16.	20.2	86
64	Optimization of Au <sup>0</sup> -Cu <sup>+</sup> synergy in Au/MgCuCr <sub>2</sub> O <sub>4</sub> catalysts for aerobic oxidation of ethanol to acetaldehyde. Journal of Catalysis, 2017, 347, 45-56.	6.2	27
65	Utilization of Human Hair as a Synergistic Support for Ag, Au, Cu, Ni, and Ru Nanoparticles: Application in Catalysis. Industrial & Engineering Chemistry Research, 2017, 56, 1926-1939.	3.7	19
66	Au-Cu-Ag Nanorods Synthesized by Seed-Mediated Coreduction and Their Optical Properties. Particle and Particle Systems Characterization, 2017, 34, 1600384.	2.3	11
67	Fiber optic SPR nanosensor based on synergistic effects of CNT/Cu-nanoparticles composite for ultratrace sensing of nitrate. Sensors and Actuators B: Chemical, 2017, 246, 910-919.	7.8	36
68	Plasmonic doped semiconductor nanocrystals: Properties, fabrication, applications and perspectives. Physics Reports, 2017, 674, 1-52.	25.6	252
69	Synthesis, characterization and catalytic properties of a copper complex containing decavanadate nanocluster, Na <sub>2</sub> [Cu(H <sub>2</sub> O) <sub>6</sub> ] <sub>2</sub> {V <sub>10</sub> O <sub>28</sub> }·4H <sub>2</sub> O. Inorganic Chemistry Communication, 2017, 77, 72-76.	3.9	12
70	Hollow porous Cu particles from silica-encapsulated Cu <sub>2</sub> O nanoparticle aggregates effectively catalyze 4-nitrophenol reduction. Nanoscale, 2017, 9, 3873-3880.	5.6	73
71	Multifunctional Magnetic Nanostructures: Exchange Bias Model and Applications. , 2017, , 225-280.		3
72	Compound Copper Chalcogenide Nanocrystals. Chemical Reviews, 2017, 117, 5865-6109.	47.7	670
73	Copper nanocubes on Al <sub>65</sub> Cu <sub>20</sub> Fe <sub>15</sub> quasicrystalline surface. Journal of Alloys and Compounds, 2017, 712, 134-138.	5.5	10

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74	A potential industrialized fiber-supported copper catalyst for one-pot multicomponent CuAAC reactions in water. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 53, 134-142.	5.8	24
75	Nucleophilic trifluoromethylation of aryl boronic acid under heterogeneous Cu(II) catalysis at room temperature: The catalytic copper-based protocol. <i>Molecular Catalysis</i> , 2017, 436, 60-66.	2.0	3
76	Exposure to air boosts CuAAC reactions catalyzed by PEG-stabilized Cu nanoparticles. <i>Chemical Communications</i> , 2017, 53, 5384-5387.	4.1	29
77	Shape-Controlled Metal-Free Catalysts: Facet-Sensitive Catalytic Activity Induced by the Arrangement Pattern of Noncovalent Supramolecular Chains. <i>ACS Nano</i> , 2017, 11, 4866-4876.	14.6	31
78	Chemical synthesis of flower-like hybrid Cu(OH) <sub>2</sub> /CuO electrode: Application of polyvinyl alcohol and triton X-100 to enhance supercapacitor performance. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 156, 165-174.	5.0	34
79	Immobilization of copper complexes with (1,10-phenanthroline)phosphonates on titania supports for sustainable catalysis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12216-12235.	10.3	26
80	Separation and quantification of metallic nanoparticles using cloud point extraction and spectrometric methods: a brief review of latest applications. <i>Analytical Methods</i> , 2017, 9, 3594-3601.	2.7	26
81	Decoration of ZnO nanorod arrays by Cu nanocrystals via magnetron sputtering. <i>International Journal of Modern Physics B</i> , 2017, 31, 1744050.	2.0	0
82	Support Induced Control of Surface Composition in Cu <sub>2</sub> Ni/TiO <sub>2</sub> Catalysts Enables High Yield Co-Conversion of HMF and Furfural to Methylated Furans. <i>ACS Catalysis</i> , 2017, 7, 4070-4082.	11.2	152
83	Fe/pCu nanoparticles as a recyclable catalyst for click reactions in water at room temperature. <i>Green Chemistry</i> , 2017, 19, 2506-2509.	9.0	41
84	Enhancement of fluorescence of EuEDTA chelate complex in sol-gel glasses by surface plasmons of copper nanoparticles. <i>Optical Materials</i> , 2017, 74, 187-190.	3.6	15
85	Au <sub>25</sub> -Cu core-shell nanocube-catalyzed click reactions for efficient synthesis of diverse triazoles. <i>Nanoscale</i> , 2017, 9, 6970-6974.	5.6	25
86	Copper(II) chelate-bonded magnetite nanoparticles: A new magnetically retrievable catalyst for the synthesis of propargylamines. <i>Comptes Rendus Chimie</i> , 2017, 20, 765-772.	0.5	21
87	A PLA-TiO <sub>2</sub> particle brush as a novel support for CuNPs: a catalyst for the fast sequential reduction and N-arylation of nitroarenes. <i>New Journal of Chemistry</i> , 2017, 41, 5347-5354.	2.8	17
88	A PEGylated deep eutectic solvent for controllable solvothermal synthesis of porous NiCo <sub>2</sub> S <sub>4</sub> for efficient oxygen evolution reaction. <i>Green Chemistry</i> , 2017, 19, 3023-3031.	9.0	143
89	Acetone-water biphasic mixtures as solvents for ultrafast SET-LRP of hydrophobic acrylates. <i>Polymer Chemistry</i> , 2017, 8, 3102-3123.	3.9	29
90	N,N-Dimethylformamide-stabilized copper nanoparticles as a catalyst precursor for Sonogashira-Hagihara cross coupling. <i>RSC Advances</i> , 2017, 7, 22869-22874.	3.6	35
91	Addressing the characterisation challenge to understand catalysis in MOFs: the case of nanoscale Cu supported in NU-1000. <i>Faraday Discussions</i> , 2017, 201, 337-350.	3.2	66

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92	Mixed valence copper-sulfur clusters of highest nuclearity: a Cu <sub>8</sub> wheel and a Cu <sub>16</sub> nanoball. <i>Chemical Communications</i> , 2017, 53, 3334-3337.	4.1	12
93	Cu <sub>2</sub> O@C core/shell nanoparticle as an electrocatalyst for oxygen evolution reaction. <i>Journal of Catalysis</i> , 2017, 352, 239-245.	6.2	70
94	Making Copper(0) Nanoparticles in Glycerol: A Straightforward Synthesis for a Multipurpose Catalyst. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 2832-2846.	4.3	48
95	Glycerol as a Recyclable Solvent for Copper-Mediated Ligand-Free C-S Cross-Coupling Reaction: Application to Synthesis of Gemmacin Precursor. <i>ChemistrySelect</i> , 2017, 2, 4852-4856.	1.5	13
96	Conversion of hydrogen/carbon dioxide into formic acid and methanol over Cu/CuCr <sub>2</sub> O <sub>4</sub> catalyst. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23647-23663.	7.1	26
97	Comparison of Kinetics, Oxide Crystal Growth and Diffusivities of Nano- and Micrometer-Sized Copper Particles on Oxidation in Air. <i>Thermochimica Acta</i> , 2017, 654, 93-100.	2.7	6
98	The stirring rate provides a dramatic acceleration of the ultrafast interfacial SET-LRP in biphasic acetonitrile-water mixtures. <i>Polymer Chemistry</i> , 2017, 8, 3405-3424.	3.9	26
99	High-efficiency copper-based electrocatalysts for oxygen electroreduction by heating metal-phthalocyanine at superhigh temperature. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16557-16567.	7.1	11
100	Solution Combustion Synthesis of Copper Nanopowders: The Fuel Effect. <i>Combustion Science and Technology</i> , 2017, 189, 1878-1890.	2.3	33
101	Copper-based magnetic catalysts for alkyne oxidative homocoupling reactions. <i>Molecular Catalysis</i> , 2017, 438, 143-151.	2.0	9
102	A facile one-step fabrication of a novel Cu/MoS <sub>2</sub> nano-assembled structure for enhanced hydrogen evolution reaction performance. <i>RSC Advances</i> , 2017, 7, 25867-25871.	3.6	14
103	Cerium oxide nanoparticles: Synthesis, characterization and tentative mechanism of particle formation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 529, 146-159.	4.7	104
104	Engineering the Composition and Structure of Bimetallic Au-Cu Alloy Nanoparticles in Carbon Nanofibers: Self-Supported Electrode Materials for Electrocatalytic Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 19756-19765.	8.0	55
105	Effect of low fluence radiation on nanocomposite thin films of Cu nanoparticles embedded in fullerene C <sub>60</sub> . <i>Vacuum</i> , 2017, 142, 5-12.	3.5	24
106	Synthesis of Cu-Nanoparticle Hydrogel with Self-Healing and Photothermal Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 20895-20903.	8.0	136
107	Recyclable Ni <sub>3</sub> S <sub>4</sub> Nanocatalyst for Hydrogenation of Nitroarenes. <i>ChemistrySelect</i> , 2017, 2, 4753-4758.	1.5	8
108	Application of microwave irradiation in preparation and characterization of CuO/Al <sub>2</sub> O <sub>3</sub> nanocomposite for removing MB dye from aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 342, 25-34.	3.9	20
109	A Dendritic Nanostructured Copper Oxide Electrocatalyst for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4792-4796.	13.8	201



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110	Complex Magnetic Nanostructures. , 2017, , .		6
111	A Dendritic Nanostructured Copper Oxide Electrocatalyst for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2017, 129, 4870-4874.	2.0	41
112	A facile method to fabricate CuO supported on nanofibers as efficient catalyst using N-arylation reactions. <i>Molecular Catalysis</i> , 2017, 431, 49-56.	2.0	7
113	Surface chemistry of group IB metals and related oxides. <i>Chemical Society Reviews</i> , 2017, 46, 1977-2000.	38.1	51
114	A facile synthesis of copper nanoparticles supported on an ordered mesoporous polymer as an efficient and stable catalyst for solvent-free sonogashira coupling Reactions. <i>Green Chemistry</i> , 2017, 19, 1949-1957.	9.0	73
115	Fates of Chemical Elements in Biomass during Its Pyrolysis. <i>Chemical Reviews</i> , 2017, 117, 6367-6398.	47.7	399
116	A step forward towards sustainable aerobic alcohol oxidation: new and revised catalysts based on transition metals on solid supports. <i>Green Chemistry</i> , 2017, 19, 2030-2050.	9.0	156
117	Cu Nanoparticles on TiN by Electroless Deposition: Surface-Mediated Diameter Control and Application to Si Nanowires Growth. <i>Helvetica Chimica Acta</i> , 2017, 100, e1700018.	1.6	1
118	Hydrogenation of 3-nitro-4-methoxy-acetylaniline with H <sub>2</sub> to 3-amino-4-methoxy-acetylaniline catalyzed by bimetallic copper/nickel nanoparticles. <i>New Journal of Chemistry</i> , 2017, 41, 3358-3366.	2.8	24
119	Copper-Decorated Microsized Nanoporous Titanium Dioxide Photocatalysts for Carbon Dioxide Reduction by Water. <i>ChemCatChem</i> , 2017, 9, 3054-3062.	3.7	44
120	Designed Synthesis of Size-Controlled Pt <sub>1</sub> Cu Alloy Nanoparticles Encapsulated in Carbon Nanofibers and Their High Efficient Electrocatalytic Activity Toward Hydrogen Evolution Reaction. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700005.	3.7	31
121	Self-supported copper (Cu) and Cu-based nanoparticle growth by bottom-up process onto borophosphate glasses. <i>Journal of Materials Science</i> , 2017, 52, 6635-6646.	3.7	9
122	Quantum Mechanical Study of N-Heterocyclic Carbene Adsorption on Au Surfaces. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2674-2682.	2.5	29
123	From the molecule to the mole: improving heterogeneous copper catalyzed click chemistry using single molecule spectroscopy. <i>Chemical Communications</i> , 2017, 53, 328-331.	4.1	13
124	Cu <sub>2</sub> O-Cu Hybrid Foams as High-Performance Electrocatalysts for Oxygen Evolution Reaction in Alkaline Media. <i>ACS Catalysis</i> , 2017, 7, 986-991.	11.2	188
125	Cu(II) Ion-Responsive Self-Assembly Based on a Water-Soluble Pillar[5]arene and a Rhodamine B-Containing Amphiphile in Aqueous Media. <i>Organic Letters</i> , 2017, 19, 202-205.	4.6	53
126	Efficient CO Oxidation by 50-Facet Cu <sub>2</sub> O Nanocrystals Coated with CuO Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 2495-2499.	8.0	31
127	In Situ Generation of Pd-Pt Core-Shell Nanoparticles on Reduced Graphene Oxide (Pd@Pt/rGO) Using Microwaves: Applications in Dehalogenation Reactions and Reduction of Olefins. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 2815-2824.	8.0	67



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128	In situ formation of copper nanoparticles in carboxylated chitosan layer: Preparation and characterization of surface modified TFC membrane with protein fouling resistance and long-lasting antibacterial properties. Separation and Purification Technology, 2017, 176, 164-172.	7.9	67
129	Use of decomposable polymer-coated submicron Cu particles with effective additive for production of highly conductive Cu films at low sintering temperature. Journal of Materials Chemistry C, 2017, 5, 1033-1041.	5.5	27
130	Visualizing the Cu/Cu <sub>2</sub> O Interface Transition in Nanoparticles with Environmental Scanning Transmission Electron Microscopy. Journal of the American Chemical Society, 2017, 139, 179-185.	13.7	119
131	Facile Synthesis of Sulfobetaine-Stabilized Cu <sub>2</sub> O Nanoparticles and Their Biomedical Potential. ACS Biomaterials Science and Engineering, 2017, 3, 3183-3194.	5.2	19
132	Interaction of Alkylamines with Cu Surfaces: A Metal-Organic Many-Body Force Field. Journal of Physical Chemistry C, 2017, 121, 22531-22541.	3.1	24
133	Fabrication of Ni@Ti core-shell nanoparticles by modified gas aggregation source. Journal Physics D: Applied Physics, 2017, 50, 475307.	2.8	28
134	Redox synthesis and high catalytic efficiency of transition-metal nanoparticle-graphene oxide nanocomposites. Journal of Materials Chemistry A, 2017, 5, 21947-21954.	10.3	20
135	Revisiting Allylic Coupling of Grignard Reagents: Nano Copper Catalyzed One-Pot $\pm$ -Selective Aryl-Allyl Coupling. Organic Preparations and Procedures International, 2017, 49, 459-466.	1.3	1
136	Au/Cu Bimetallic Nanoparticles via Double-Target Sputtering onto a Liquid Polymer. Langmuir, 2017, 33, 12389-12397.	3.5	33
137	Synthesis of Cu Nanoparticles: Stability and Conversion into Cu <sub>2</sub> S Nanoparticles by Decomposition of Alkanethiolate. Langmuir, 2017, 33, 13272-13276.	3.5	8
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