

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. Materials, 2016, 9, 809.	1.3	42
2	Rapid synthesis of ultralong Fe(OH) ₃ :Cu(OH) ₂ core-shell nanowires self-supported on copper foam as a highly efficient 3D electrode for water oxidation. Chemical Communications, 2016, 52, 14470-14473.	2.2	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. ChemistrySelect, 2016, 1, 6297-6307.	0.7	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. Journal of Physical Chemistry C, 2016, 120, 28844-28856.	1.5	75
5	Carbon nitride supported copper nanoparticles: light-induced electronic effect of the support for triazole synthesis. Royal Society Open Science, 2016, 3, 160580.	1.1	25
6	Non-Hydrothermal Synthesis of Cu(I)-Microleaves from Cu(II)-Nanorods. ChemistrySelect, 2016, 1, 6606-6615.	0.7	3
7	Cu and Cu-Based Nanoparticles: Synthesis and Applications in Catalysis. Chemical Reviews, 2016, 116, 3722-3811.	23.0	2,051
8	Transamidation catalysed by a magnetically separable Fe ₃ O ₄ nano catalyst under solvent-free conditions. RSC Advances, 2016, 6, 52724-52728.	1.7	19
9	Surface Plasmon-Mediated Chemical Solution Deposition of Cu Nanoparticle Films. Journal of Physical Chemistry C, 2016, 120, 20775-20780.	1.5	10
10	Highly selective colorimetric cysteine sensor based on the formation of cysteine layer on copper nanoparticles. Sensors and Actuators B: Chemical, 2016, 233, 431-437.	4.0	48
11	Ultrafast SET-LRP of hydrophobic acrylates in multiphase alcohol-water mixtures. Polymer Chemistry, 2016, 7, 3608-3621.	1.9	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. RSC Advances, 2016, 6, 87066-87081.	1.7	14
13	Harnessing the Dual Properties of Thiol-Grafted Cellulose Paper for Click Reactions: A Powerful Reducing Agent and Adsorbent for Cu. Angewandte Chemie, 2016, 128, 13747-13750.	1.6	4
14	Highly Stable Copper Nanoparticles Linked to Organic Frameworks as Recyclable Catalyst for Three-Component Click Cycloaddition in Water. ChemistrySelect, 2016, 1, 4803-4813.	0.7	5
15	Small and well-dispersed Cu nanoparticles on carbon nanofibers: Self-supported electrode materials for efficient hydrogen evolution reaction. International Journal of Hydrogen Energy, 2016, 41, 18044-18049.	3.8	47
16	Fabrication of different copper nanostructures on indium-tin-oxide electrodes: shape dependent electrocatalytic activity. CrystEngComm, 2016, 18, 8696-8708.	1.3	14
17	Harnessing the Dual Properties of Thiol-Grafted Cellulose Paper for Click Reactions: A Powerful Reducing Agent and Adsorbent for Cu. Angewandte Chemie - International Edition, 2016, 55, 13549-13552.	7.2	27
18	Adsorption behavior and reduction of copper (II) acetate on the surface of detonation nanodiamond with well defined surface chemistry. Carbon, 2016, 109, 98-105.	5.4	22

#	ARTICLE	IF	CITATIONS
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.	1.7	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.	1.2	6
21	Enhanced Reduction of CO ₂ to CO over Cu ⁰ in Electrocatalysts: Catalyst Evolution Is the Key. ACS Catalysis, 2016, 6, 6265-6274.	5.5	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.	5.5	60
23	Ultrafast SET-LRP in biphasic mixtures of the non-disproportionating solvent acetonitrile with water. Polymer Chemistry, 2016, 7, 5930-5942.	1.9	29
24	Facile synthesis and characterization of beta lactoglobulin-copper nanocomposites having antibacterial applications. RSC Advances, 2016, 6, 85340-85346.	1.7	4
25	Self-Supported Cedarlike Semimetallic Cu ₃ 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.	4.0	170
26	Surface Sites in Cu-Nanoparticles: Chemical Reactivity or Microscopy?. Journal of Physical Chemistry Letters, 2016, 7, 3259-3263.	2.1	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.	6.6	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.	4.0	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.	18.7	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.	5.5	59
31	Continuous catalytic upgrading of ethanol to n-butanol over Cu ⁰ /CeO ₂ /AC catalysts. Chemical Communications, 2016, 52, 13749-13752.	2.2	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.	6.6	414
33	Self-assembled monolayer structures of hexadecylamine on Cu surfaces: density-functional theory. Physical Chemistry Chemical Physics, 2016, 18, 32753-32761.	1.3	31
34	Cobalt Oxide (CoO _x) as an Efficient Hole-Extracting Layer for High-Performance Inverted Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 33592-33600.	4.0	122
35	D-Glucose: An Efficient Reducing Agent for a Copper(II)-Mediated Arylation of Primary Amines in Water. ChemSusChem, 2016, 9, 3244-3249.	3.6	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.	1.7	21

#	ARTICLE	IF	CITATIONS
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.	1.7	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.	1.7	12
39	Matrix Sputtering into Liquid Mercaptan: From Blue-Emitting Copper Nanoclusters to Red-Emitting Copper Sulfide Nanoclusters. Langmuir, 2016, 32, 12159-12165.	1.6	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.	5.2	59
42	Mild oxidative C-H functionalization of alkanes and alcohols using a magnetic core-shell Fe ₃ O ₄ @mSiO ₂ @Cu ₄ 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.	18.7	458
44	Kinetics of copper growth on graphene revealed by time-resolved small-angle x-ray scattering. Physical Review B, 2017, 95, .	1.1	7
45	Copper nanoparticles catalyzed N-H functionalization: An efficient solvent-free N-tert-butyloxycarbonylation strategy. Tetrahedron Letters, 2017, 58, 629-633.	0.7	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.	1.5	25
47	A new view for nanoparticle assemblies: from crystalline to binary cooperative complementarity. Chemical Society Reviews, 2017, 46, 1483-1509.	18.7	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.	5.1	70
49	pH-Guided Self-Assembly of Copper Nanoclusters with Aggregation-Induced Emission. ACS Applied Materials & Interfaces, 2017, 9, 3902-3910.	4.0	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.	3.2	77
51	Enhanced CO ₂ electroreduction on armchair graphene nanoribbons edge-decorated with copper. Nano Research, 2017, 10, 1641-1650.	5.8	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.	3.2	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.	3.0	34
54	Metal organic frameworks as precursors for the manufacture of advanced catalytic materials. Materials Chemistry Frontiers, 2017, 1, 1709-1745.	3.2	252
55	In-situ deposition of Cu ₂ O micro-needles for biologically active textiles and their release properties. Carbohydrate Polymers, 2017, 165, 255-265.	5.1	81

#	ARTICLE	IF	CITATIONS
56	Iron-Oxide-Supported Ultrasmall ZnO Nanoparticles: Applications for Transesterification, Amidation, and O-Acylation Reactions. ACS Sustainable Chemistry and Engineering, 2017, 5, 3314-3320.	3.2	21
57	Synthesis and characterization of NiFe ₂ O ₄ @Cu nanoparticles as a magnetically recoverable catalyst for reduction of nitroarenes to arylamines with NaBH ₄ . Journal of Colloid and Interface Science, 2017, 500, 285-293.	5.0	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.	2.5	47
59	Mimicking Horseradish Peroxidase Functions Using Cu ²⁺ -Modified Carbon Nitride Nanoparticles or Cu ²⁺ -Modified Carbon Dots as Heterogeneous Catalysts. ACS Nano, 2017, 11, 3247-3253.	7.3	279
60	CuO/Graphene Oxide Nanocomposite as Highly Active and Durable Catalyst for Selective Oxidation of Cyclohexane. ChemistrySelect, 2017, 2, 2277-2281.	0.7	18
61	Dual role of Cu ₂ O nanocubes as templates and networking catalysts for hollow and microporous Fe-porphyrin networks. Chemical Communications, 2017, 53, 2598-2601.	2.2	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.	1.3	18
63	Framework Cu-doped AlPO ₄ as an effective Fenton-like catalyst for bisphenol A degradation. Applied Catalysis B: Environmental, 2017, 207, 9-16.	10.8	86
64	Optimization of Au ⁰ -Cu ⁺ synergy in Au/MgCuCr ₂ O ₄ catalysts for aerobic oxidation of ethanol to acetaldehyde. Journal of Catalysis, 2017, 347, 45-56.	3.1	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.	1.8	19
66	Au-Cu-Ag Nanorods Synthesized by Seed-Mediated Coreduction and Their Optical Properties. Particle and Particle Systems Characterization, 2017, 34, 1600384.	1.2	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.	4.0	36
68	Plasmonic doped semiconductor nanocrystals: Properties, fabrication, applications and perspectives. Physics Reports, 2017, 674, 1-52.	10.3	252
69	Synthesis, characterization and catalytic properties of a copper complex containing decavanadate nanocluster, Na ₂ [Cu(H ₂ O) ₆] ₂ {V ₁₀ O ₂₈ }·4H ₂ O. Inorganic Chemistry Communication, 2017, 77, 72-76.	1.8	12
70	Hollow porous Cu particles from silica-encapsulated Cu ₂ O nanoparticle aggregates effectively catalyze 4-nitrophenol reduction. Nanoscale, 2017, 9, 3873-3880.	2.8	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.	23.0	670
73	Copper nanocubes on Al ₆₅ Cu ₂₀ Fe ₁₅ quasicrystalline surface. Journal of Alloys and Compounds, 2017, 712, 134-138.	2.8	10

#	ARTICLE	IF	CITATIONS
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.	2.9	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.	1.0	3
76	Exposure to air boosts CuAAC reactions catalyzed by PEG-stabilized Cu nanoparticles. <i>Chemical Communications</i> , 2017, 53, 5384-5387.	2.2	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.	7.3	31
78	Chemical synthesis of flower-like hybrid Cu(OH) ₂ /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.	2.5	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.	5.2	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.	1.3	26
81	Decoration of ZnO nanorod arrays by Cu nanocrystals via magnetron sputtering. <i>International Journal of Modern Physics B</i> , 2017, 31, 1744050.	1.0	0
82	Support Induced Control of Surface Composition in Cu ₂ Ni/TiO ₂ Catalysts Enables High Yield Co-Conversion of HMF and Furfural to Methylated Furans. <i>ACS Catalysis</i> , 2017, 7, 4070-4082.	5.5	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.	4.6	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.	1.7	15
85	Au ₂₅ Si ₂ S ₁₈ core-shell nanocube-catalyzed click reactions for efficient synthesis of diverse triazoles. <i>Nanoscale</i> , 2017, 9, 6970-6974.	2.8	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.	0.2	21
87	A PLA ₂ /TiO ₂ 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.	1.4	17
88	A PEGylated deep eutectic solvent for controllable solvothermal synthesis of porous NiCo ₂ S ₄ for efficient oxygen evolution reaction. <i>Green Chemistry</i> , 2017, 19, 3023-3031.	4.6	143
89	Acetone ₂ /water biphasic mixtures as solvents for ultrafast SET-LRP of hydrophobic acrylates. <i>Polymer Chemistry</i> , 2017, 8, 3102-3123.	1.9	29
90	N,N-Dimethylformamide-stabilized copper nanoparticles as a catalyst precursor for Sonogashira ₂ /Hagihara cross coupling. <i>RSC Advances</i> , 2017, 7, 22869-22874.	1.7	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.	1.6	66

#	ARTICLE	IF	CITATIONS
92	Mixed valence copper-sulfur clusters of highest nuclearity: a Cu ₈ wheel and a Cu ₁₆ nanoball. <i>Chemical Communications</i> , 2017, 53, 3334-3337.	2.2	12
93	Cu ₂ O@C core/shell nanoparticle as an electrocatalyst for oxygen evolution reaction. <i>Journal of Catalysis</i> , 2017, 352, 239-245.	3.1	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.	2.1	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.	0.7	13
96	Conversion of hydrogen/carbon dioxide into formic acid and methanol over Cu/CuCr ₂ O ₄ catalyst. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23647-23663.	3.8	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.	1.2	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.	1.9	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.	3.8	11
100	Solution Combustion Synthesis of Copper Nanopowders: The Fuel Effect. <i>Combustion Science and Technology</i> , 2017, 189, 1878-1890.	1.2	33
101	Copper-based magnetic catalysts for alkyne oxidative homocoupling reactions. <i>Molecular Catalysis</i> , 2017, 438, 143-151.	1.0	9
102	A facile one-step fabrication of a novel Cu/MoS ₂ nano-assembled structure for enhanced hydrogen evolution reaction performance. <i>RSC Advances</i> , 2017, 7, 25867-25871.	1.7	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.	2.3	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 & Interfaces</i> , 2017, 9, 19756-19765.	4.0	55
105	Effect of low fluence radiation on nanocomposite thin films of Cu nanoparticles embedded in fullerene C ₆₀ . <i>Vacuum</i> , 2017, 142, 5-12.	1.6	24
106	Synthesis of Cu-Nanoparticle Hydrogel with Self-Healing and Photothermal Properties. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20895-20903.	4.0	136
107	Recyclable Ni ₃ S ₄ Nanocatalyst for Hydrogenation of Nitroarenes. <i>ChemistrySelect</i> , 2017, 2, 4753-4758.	0.7	8
108	Application of microwave irradiation in preparation and characterization of CuO/Al ₂ O ₃ nanocomposite for removing MB dye from aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 342, 25-34.	2.0	20
109	A Dendritic Nanostructured Copper Oxide Electrocatalyst for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4792-4796.	7.2	201

#	ARTICLE	IF	CITATIONS
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.	1.6	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.	1.0	7
113	Surface chemistry of group IB metals and related oxides. <i>Chemical Society Reviews</i> , 2017, 46, 1977-2000.	18.7	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.	4.6	73
115	Fates of Chemical Elements in Biomass during Its Pyrolysis. <i>Chemical Reviews</i> , 2017, 117, 6367-6398.	23.0	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.	4.6	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.	1.0	1
118	Hydrogenation of 3-nitro-4-methoxy-acetylaniline with H ₂ to 3-amino-4-methoxy-acetylaniline catalyzed by bimetallic copper/nickel nanoparticles. <i>New Journal of Chemistry</i> , 2017, 41, 3358-3366.	1.4	24
119	Copper-Decorated Microsized Nanoporous Titanium Dioxide Photocatalysts for Carbon Dioxide Reduction by Water. <i>ChemCatChem</i> , 2017, 9, 3054-3062.	1.8	44
120	Designed Synthesis of Size-Controlled Pt ₁ 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.	1.9	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.	1.7	9
122	Quantum Mechanical Study of N-Heterocyclic Carbene Adsorption on Au Surfaces. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2674-2682.	1.1	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.	2.2	13
124	Cu ₂ O-Cu Hybrid Foams as High-Performance Electrocatalysts for Oxygen Evolution Reaction in Alkaline Media. <i>ACS Catalysis</i> , 2017, 7, 986-991.	5.5	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.	2.4	53
126	Efficient CO Oxidation by 50-Facet Cu ₂ O Nanocrystals Coated with CuO Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2495-2499.	4.0	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 & Interfaces</i> , 2017, 9, 2815-2824.	4.0	67

#	ARTICLE	IF	CITATIONS
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.	3.9	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.	2.7	27
130	Visualizing the Cu/Cu ₂ O Interface Transition in Nanoparticles with Environmental Scanning Transmission Electron Microscopy. Journal of the American Chemical Society, 2017, 139, 179-185.	6.6	119
131	Facile Synthesis of Sulfobetaine-Stabilized Cu ₂ O Nanoparticles and Their Biomedical Potential. ACS Biomaterials Science and Engineering, 2017, 3, 3183-3194.	2.6	19
132	Interaction of Alkylamines with Cu Surfaces: A Metal-Organic Many-Body Force Field. Journal of Physical Chemistry C, 2017, 121, 22531-22541.	1.5	24
133	Fabrication of Ni@Ti core-shell nanoparticles by modified gas aggregation source. Journal Physics D: Applied Physics, 2017, 50, 475307.	1.3	28
134	Redox synthesis and high catalytic efficiency of transition-metal nanoparticle-graphene oxide nanocomposites. Journal of Materials Chemistry A, 2017, 5, 21947-21954.	5.2	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.	0.6	1
136	Au/Cu Bimetallic Nanoparticles via Double-Target Sputtering onto a Liquid Polymer. Langmuir, 2017, 33, 12389-12397.	1.6	33
137	Synthesis of Cu Nanoparticles: Stability and Conversion into Cu ₂ S Nanoparticles by Decomposition of Alkanethiolate. Langmuir, 2017, 33, 13272-13276.	1.6	8
138	Mesoporous Copper Nanoparticle Networks Decorated by Graphite Layers for Surface-Enhanced Raman Scattering Detection of Trace Analytes. ChemPlusChem, 2017, 82, 1290-1297.	1.3	0
139	Stabilized Cu ₂ O Nanoparticles on Macroporous Polystyrene Resins [Cu ₂ O@ARF]: Improved and Reusable Heterogeneous Catalyst for On-Water Synthesis of Triazoles via Click Reaction. Industrial & Engineering Chemistry Research, 2017, 56, 11726-11733.	1.8	34
140	Copper nanoparticles as inexpensive and efficient catalyst: A valuable contribution in organic synthesis. Coordination Chemistry Reviews, 2017, 353, 1-57.	9.5	136
141	Insights into the structure-induced catalysis dependence of simply engineered one-dimensional zinc oxide nanocrystals towards photocatalytic water purification. Inorganic Chemistry Frontiers, 2017, 4, 2075-2087.	3.0	14
142	Prevention of aerobic oxidation of copper nanoparticles by anti-galvanic alloying: gold versus silver. Chemical Communications, 2017, 53, 11134-11137.	2.2	17
143	Chitin Liquid-Crystal-Templated Oxide Semiconductor Aerogels. ACS Applied Materials & Interfaces, 2017, 9, 30812-30820.	4.0	15
144	Ab Initio Simulations of Copper Oxide Nanowires and Clusters on TiO ₂ (101) Anatase Surface. Journal of Physical Chemistry C, 2017, 121, 20359-20365.	1.5	10
145	Single-Electron Transfer Living Radical Polymerization Platform to Practice, Develop, and Invent. Biomacromolecules, 2017, 18, 2981-3008.	2.6	109

#	ARTICLE	IF	CITATIONS
146	Corrosion-Protected Hybrid Nanoparticles. <i>Advanced Science</i> , 2017, 4, 1700234.	5.6	20
147	Synthesis of flower-like magnetite nanoassembly: Application in the efficient reduction of nitroarenes. <i>Scientific Reports</i> , 2017, 7, 11585.	1.6	44
149	Realization of Red Plasmon Shifts up to ~ 4900 nm by AgPd-Tipping Elongated Au Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 13837-13846.	6.6	96
150	Size-Controlled and Optical Properties of Platinum Nanoparticles by Gamma Radiolytic Synthesis. <i>Applied Radiation and Isotopes</i> , 2017, 130, 211-217.	0.7	27
151	Nanospecific Phytotoxicity of CuO Nanoparticles in Soils Disappeared When Bioavailability Factors Were Considered. <i>Environmental Science & Technology</i> , 2017, 51, 11976-11985.	4.6	51
152	Batch and Continuous-Flow Huisgen 1,3-Dipolar Cycloadditions with an Amphiphilic Resin-Supported Triazine-Based Polyethyleneamine Dendrimer Copper Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10722-10734.	3.2	65
153	Incorporation of CuO NPs into modified UiO-66-NH ₂ metal-organic frameworks (MOFs) with melamine for catalytic C=O coupling in the Ullmann condensation. <i>New Journal of Chemistry</i> , 2017, 41, 12014-12027.	1.4	70
154	Ultrastable atomic copper nanosheets for selective electrochemical reduction of carbon dioxide. <i>Science Advances</i> , 2017, 3, e1701069.	4.7	211
155	Abundant Size-Controlled Cu-Ni(Fe) Alloy Nanoparticles Decorated Reduced Graphene with Enhanced Electrocatalytic Activities for Chloramphenicol. <i>Journal of the Electrochemical Society</i> , 2017, 164, H779-H787.	1.3	10
156	Facile Fabrication of Ordered Component-Tunable Heterobimetallic Self-Assembly Nanosheet for Catalyzing α -Click-Reaction. <i>ACS Omega</i> , 2017, 2, 5415-5433.	1.6	12
157	Insight into Copper Catalysis: In Situ Formed Nano Cu ₂ O in Suzuki-Miyaura Cross-Coupling of Aryl/Indolyl Boronates. <i>Organic Letters</i> , 2017, 19, 3974-3977.	2.4	44
158	Dentritic CuPtPd Catalyst for Enhanced Electrochemical Oxidation of Methanol. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25995-26000.	4.0	43
159	The role of carbonate in electro-catalytic water oxidation by using Ni(1,4,8,11-tetraazacyclotetradecane) ²⁺ . <i>Dalton Transactions</i> , 2017, 46, 10774-10779.	1.6	27
160	Fabrication of compressible and recyclable macroscopic g-C ₃ N ₄ /GO aerogel hybrids for visible-light harvesting: A promising strategy for water remediation. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 241-248.	10.8	135
161	Decorating of Ag and CuO on Cu Nanoparticles for Enhanced High Catalytic Activity to the Degradation of Organic Pollutants. <i>Langmuir</i> , 2017, 33, 7606-7614.	1.6	85
162	Polyfunctional Tetraaza-Macrocyclic Ligands: Zn(II), Cu(II) Binding and Formation of Hybrid Materials with Multiwalled Carbon Nanotubes. <i>ACS Omega</i> , 2017, 2, 3868-3877.	1.6	20
163	Selective Reduction of Azines to Benzyl Hydrazones with Sodium Borohydride Catalyzed by Mesoporous Silica-Supported Silver Nanoparticles: A Catalytic Route towards Pyrazole Synthesis. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 2949-2960.	2.1	28
164	Aqueous-Phase Synthesis of Size-Tunable Copper Nanocubes for Efficient Aryl Alkyne Hydroboration. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2318-2322.	1.7	29

#	ARTICLE	IF	CITATIONS
165	CuCl ₂ @Poly-IL catalyzed carboxylation of terminal alkynes through CO ₂ utilization. Chemical Engineering Journal, 2017, 326, 1009-1019.	6.6	20
166	Copper-coordination polymer-controlled Cu@N-rGO and CuO@C nanoparticle formation: reusable green catalyst for A ³ C ³ -coupling and nitroarene-reduction reactions. Dalton Transactions, 2017, 46, 11704-11714.	1.6	17
167	Fungicidal activity of copper-sputtered flexible surfaces under dark and actinic light against azole-resistant <i>Candida albicans</i> and <i>Candida glabrata</i> . Journal of Photochemistry and Photobiology B: Biology, 2017, 174, 229-234.	1.7	22
168	Extending the 'f-Hole Concept to Metals: An Electrostatic Interpretation of the Effects of Nanostructure in Gold and Platinum Catalysis. Journal of the American Chemical Society, 2017, 139, 11012-11015.	6.6	136
169	Facile synthesis of Cu/Ni alloy nanospheres with tunable size and elemental ratio. RSC Advances, 2017, 7, 37823-37829.	1.7	13
170	XAFS structural characterization of Cu vapour derived catalysts supported on poly(4-vinylpyridine) and carbon. X-Ray Spectrometry, 2017, 46, 82-87.	0.9	9
171	Sensitive, Quantitative Naked-Eye Biodetection with Polyhedral Cu Nanoshells. Advanced Materials, 2017, 29, 1702945.	11.1	33
172	Nonsacrificial Template Synthesis of Magnetic-Based Yolk-Shell Nanostructures for the Removal of Acetaminophen in Fenton-like Systems. ACS Applied Materials & Interfaces, 2017, 9, 28508-28518.	4.0	62
173	A facile fabrication method and the boosted adsorption and photodegradation activity of CuO nanoparticles synthesized using a silk fibroin template. Journal of Industrial and Engineering Chemistry, 2017, 56, 335-341.	2.9	24
174	Effect of Configuration Addition of Precursors on Structure and Catalysis of Cu/SiO ₂ Catalysts Prepared by Ammonia Evaporation-Hydrothermal Method. Industrial & Engineering Chemistry Research, 2017, 56, 9285-9292.	1.8	18
175	Real-time plasmon spectroscopy study of the solid-state oxidation and Kirkendall void formation in copper nanoparticles. Nanoscale, 2017, 9, 12573-12589.	2.8	36
176	Formation of C-C, C-S and C-N bonds catalysed by supported copper nanoparticles. Catalysis Science and Technology, 2017, 7, 4401-4412.	2.1	61
177	Distinct Promotive Effects of 1,8-Diazabicyclo[5.4.0]undec-7-ene (DBU) on Polymer Supports in Copper-Catalyzed Hydrogenation of C=O Bonds. ChemCatChem, 2017, 9, 4501-4507.	1.8	8
178	Cu/Cu ₂ O nanoparticle interface: Rational designing of a heterogeneous catalyst system for selective hydroamination. Molecular Catalysis, 2017, 440, 57-65.	1.0	29
179	Ultrafast Electron Dynamics in Solar Energy Conversion. Chemical Reviews, 2017, 117, 10940-11024.	23.0	266
180	Copper nanoflowers as effective antifungal agents for plant pathogenic fungi. IET Nanobiotechnology, 2017, 11, 546-551.	1.9	23
181	A Novel and Template-Free Synthesis of Multifunctional Double-Shelled Fe ₃ O ₄ @C Nanoreactor as an Ideal Support for Confined Catalytic Reactions. ChemistrySelect, 2017, 2, 10871-10879.	0.7	15
182	Biological application of water-based electrochemically synthesized CuO leaf-like arrays: SERS response modulated by the positional isomerism and interface type. Physical Chemistry Chemical Physics, 2017, 19, 31842-31855.	1.3	7

#	ARTICLE	IF	CITATIONS
183	Facile synthesis and heteroepitaxial growth mechanism of Au@Cu core-shell bimetallic nanocubes probed by first-principles studies. CrystEngComm, 2017, 19, 7287-7297.	1.3	10
184	Antimicrobial Activities of Metal Nanoparticles. , 2017, , 337-363.		31
185	Unconventional Strategy to Anatase TiO ₂ Nanocrystals with Tunable Surface Chemistry via Liquid Crystalline Polyamides as a Functional Matrix. Journal of Physical Chemistry C, 2017, 121, 27111-27117.	1.5	1
186	A bimetallic carbide derived from a MOF precursor for increasing electrocatalytic oxygen evolution activity. Chemical Communications, 2017, 53, 13027-13030.	2.2	57
187	Asymmetric Light Absorption and Radiation of Ag-Cu Hybrid Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 27029-27035.	1.5	20
188	Shock-induced compaction of nanoparticle layers into nanostructured coating. Journal of Applied Physics, 2017, 122, .	1.1	18
189	New electrochemiluminescence catalyst: Cu ₂ O semiconductor crystal and the enhanced activity of octahedra synthesized by iodide ions coordination. Materials Research Express, 2017, 4, 115021.	0.8	3
190	Structure and Properties of Nanoparticles Fabricated by Laser Ablation of Bulk Metal Copper Targets in Water and Ethanol. Russian Physics Journal, 2017, 60, 1197-1205.	0.2	9
191	Transformation and bioavailability of metal oxide nanoparticles in aquatic and terrestrial environments. A review. Environmental Pollution, 2017, 230, 250-267.	3.7	188
192	Enhanced plasmonic photocatalysis by SiO ₂ @Bi microspheres with hot-electron transportation channels via Bi-O-Si linkages. Chinese Journal of Catalysis, 2017, 38, 1174-1183.	6.9	42
193	Molecular Insight into Assembly Mechanisms of Porous Aromatic Frameworks. Journal of Physical Chemistry C, 2017, 121, 16381-16392.	1.5	13
194	Mimicking Peroxidase Activities with Prussian Blue Nanoparticles and Their Cyanometalate Structural Analogues. Nano Letters, 2017, 17, 4958-4963.	4.5	106
195	Hierarchically Porous Sphere-Like Copper Oxide (HS-CuO) Nanocatalyzed Synthesis of Benzofuran Isomers with Anomalous Selectivity and Their Ideal Green Chemistry Metrics. ACS Sustainable Chemistry and Engineering, 2017, 5, 6466-6477.	3.2	35
196	Copper(II)-phenanthroline hybrid material as efficient catalyst for the multicomponent synthesis of 1,2,3-triazoles via sequential azide formation/1,3-dipolar cycloaddition. Molecular Catalysis, 2017, 437, 150-157.	1.0	20
197	ESI/MS investigation of routes to the formation of silver hydride nanocluster dications [Ag _x H _{x+2} L ₆] ²⁺ and gas-phase unimolecular chemistry of [Ag ₁₀ H ₁₂ L ₆] ²⁺ . International Journal of Mass Spectrometry, 2017, 413, 97-105.	0.7	13
198	Atomic and molecular layer deposition: off the beaten track. Chemical Communications, 2017, 53, 45-71.	2.2	173
199	Effect of shell thickness of Pd core-porous SiO ₂ shell catalysts on direct synthesis of H ₂ O ₂ from H ₂ and O ₂ . Journal of Molecular Catalysis A, 2017, 426, 238-243.	4.8	13
200	Colloids created by light: Laser-generated nanoparticles for applications in biology and medicine. Materials Today: Proceedings, 2017, 4, S93-S100.	0.9	12

#	ARTICLE	IF	CITATIONS
201	Characterizing the geometric and electronic structure of defects in the α -copper surface oxide. Journal of Chemical Physics, 2017, 147, 224706.	1.2	9
203	Metal Catalysts Intercalated in Smectite Clays. , 2017, , 387-441.		7
204	Non-Noble Metal Oxide Catalysts for Methane Catalytic Combustion: Sonochemical Synthesis and Characterisation. Nanomaterials, 2017, 7, 174.	1.9	19
205	Silver Nanoparticles: Technological Advances, Societal Impacts, and Metrological Challenges. Frontiers in Chemistry, 2017, 5, 6.	1.8	241
206	On the Origin of Enhanced Photocatalytic Activity of Copper-Modified Titania in the Oxidative Reaction Systems. Catalysts, 2017, 7, 317.	1.6	193
207	Evaluating the NO _x Storage Catalysts (NSC) Aging: A Preliminary Analytical Study with Electronic Microscopy. Applied Sciences (Switzerland), 2017, 7, 1059.	1.3	0
208	Influence of Heat Treatment on the Morphologies of Copper Nanoparticles Based Films by a Spin Coating Method. Journal of Nanomaterials, 2017, 2017, 1-6.	1.5	1
209	Postprocessing Algorithm for Driving Conventional Scanning Tunneling Microscope at Fast Scan Rates. Scanning, 2017, 2017, 1-8.	0.7	3
211	On-site sensors based on infinite coordination polymer nanoparticles: Recent progress and future challenge. Applied Materials Today, 2018, 11, 338-351.	2.3	38
212	C-N bond formation by the activation of alkenes and alkynes using Cu present in the framework and extra-framework of aluminophosphate. Catalysis Communications, 2018, 109, 43-49.	1.6	11
213	Lithium Titanate Confined in Nanoporous Copper for High-Rate Battery Applications. MRS Advances, 2018, 3, 1249-1253.	0.5	1
214	General aspects in the use of graphenes in catalysis. Materials Horizons, 2018, 5, 363-378.	6.4	49
215	Silica-Assisted Encapsulation of Cu ₂ O Nanocubes into a Metal-Organic Framework (ZIF-8) To Provide a Composite Catalyst. Angewandte Chemie - International Edition, 2018, 57, 6834-6837.	7.2	144
216	Copper-loaded nanocellulose sponge as a sustainable catalyst for regioselective hydroboration of alkynes. Carbohydrate Polymers, 2018, 191, 17-24.	5.1	35
217	SET-LRP of the Hydrophobic Biobased Menthyl Acrylate. Biomacromolecules, 2018, 19, 1256-1268.	2.6	27
218	Effect of boric acid on thermal behavior of copper nanopowder/epoxy composites. Journal of Thermal Analysis and Calorimetry, 2018, 131, 567-572.	2.0	3
219	Electrochemical behaviors of hierarchical copper nano-dendrites in alkaline media. Nano Research, 2018, 11, 4225-4231.	5.8	13
220	Effect of ultrasonic treatment of the mechanically mixed nanosized Cu-MgO solids on their catalytic properties in the CO oxidation. Chemical Engineering Communications, 2018, 205, 797-804.	1.5	3

#	ARTICLE	IF	CITATIONS
221	Preparation of stable copper nanostructures and their direct phase transfer using mercaptosuccinic acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 550, 46-55.	2.3	5
222	Survey of short and long cuprophilic d ¹⁰ -d ¹⁰ contacts for tetranuclear copper clusters. Understanding of bonding and ligand role from a planar superatom perspective. <i>New Journal of Chemistry</i> , 2018, 42, 8874-8881.	1.4	5
223	Copper-based non-precious metal heterogeneous catalysts for environmental remediation. <i>Chinese Journal of Catalysis</i> , 2018, 39, 566-582.	6.9	63
224	Recent Progress in the Theoretical Investigation of Electrocatalytic Reduction of CO ₂ . <i>Advanced Theory and Simulations</i> , 2018, 1, 1800004.	1.3	50
225	Nonnobleâ€Metalâ€Based Plasmonic Nanomaterials: Recent Advances and Future Perspectives. <i>Advanced Materials</i> , 2018, 30, e1704528.	11.1	160
226	Colloidal Auâ€Cu alloy nanoparticles: synthesis, optical properties and applications. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1074-1089.	3.2	62
227	Microwave assisted one pot three component synthesis of propargylamine, tetra substituted propargylamine and pyrrolo[1,2- <i>a</i>]quinolines using CuNPs@ZnOâ€PTh as a heterogeneous catalyst. <i>New Journal of Chemistry</i> , 2018, 42, 8724-8737.	1.4	40
228	â€Paintingâ€ nanostructured metalsâ€playing with liquid metal. <i>Nanoscale Horizons</i> , 2018, 3, 408-416.	4.1	32
229	A 2D transition-metal dichalcogenide MoS ₂ based novel nanocomposite and nanocarrier for multiplex miRNA detection. <i>Nanoscale</i> , 2018, 10, 8217-8225.	2.8	35
230	Versatile Threeâ€Dimensional Porous Cu@Cu ₂ O Aerogel Networks as Electrocatalysts and Mimicking Peroxidases. <i>Angewandte Chemie</i> , 2018, 130, 6935-6940.	1.6	36
231	Versatile Threeâ€Dimensional Porous Cu@Cu ₂ O Aerogel Networks as Electrocatalysts and Mimicking Peroxidases. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6819-6824.	7.2	168
233	Solidâ€Solution Alloy Nanoparticles of the Immiscible Iridiumâ€Copper System with a Wide Composition Range for Enhanced Electrocatalytic Applications. <i>Angewandte Chemie</i> , 2018, 130, 4595-4599.	1.6	13
234	Self-catalyzed copperâ€silver complex inks for low-cost fabrication of highly oxidation-resistant and conductive copperâ€silver hybrid tracks at a low temperature below 100 Â°C. <i>Nanoscale</i> , 2018, 10, 5254-5263.	2.8	19
235	Toxicity of Metal Oxide Nanoparticles. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1048, 99-122.	0.8	38
236	Thermodynamic modeling of Ag â€ Cu nanoalloyâ€phase diagram. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018, 60, 208-213.	0.7	37
237	Atomically precise copper nanoclusters and their applications. <i>Coordination Chemistry Reviews</i> , 2018, 359, 112-126.	9.5	216
238	Recent developments of metallic nanoparticle-graphene nanocatalysts. <i>Progress in Materials Science</i> , 2018, 94, 306-383.	16.0	102
239	CuInS ₂ quantum dot sensitized solar cells with high VOC â‰ˆ 0.9 V achieved using microsphere-nanoparticulate TiO ₂ composite photoanode. <i>Solar Energy Materials and Solar Cells</i> , 2018, 178, 208-222.	3.0	33

#	ARTICLE	IF	CITATIONS
240	Heterostructured Copperâ€“Ceria and Ironâ€“Ceria Nanorods: Role of Morphology, Redox, and Acid Properties in Catalytic Diesel Soot Combustion. <i>Langmuir</i> , 2018, 34, 2663-2673.	1.6	68
241	An efficient copper-based magnetic nanocatalyst for the fixation of carbon dioxide at atmospheric pressure. <i>Scientific Reports</i> , 2018, 8, 1901.	1.6	59
242	Facile preparation of Copper nanoparticles using <i>Coccinia grandis</i> fruit extract and its application towards the reduction of toxic nitro compound. <i>Materials Today: Proceedings</i> , 2018, 5, 2098-2104.	0.9	20
243	Thin CuO_x-based nanosheets for efficient phenol removal benefitting from structural memory and ion exchange of layered double oxides. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4167-4178.	5.2	34
244	Co-Doped CuO Nanoarray: An Efficient Oxygen Evolution Reaction Electrocatalyst with Enhanced Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2883-2887.	3.2	277
245	Superwetting copper meshes based on self-organized robust CuO nanorods: efficient water purification for <i>in situ</i> oil removal and visible light photodegradation. <i>Nanoscale</i> , 2018, 10, 4561-4569.	2.8	47
246	Polyhedral Cu ₂ O to Cu pseudomorphic conversion for stereoselective alkyne semihydrogenation. <i>Chemical Science</i> , 2018, 9, 2517-2524.	3.7	34
248	CuAg@Ag Coreâ€“Shell Nanostructure Encapsulated by N-Doped Graphene as a High-Performance Catalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4672-4681.	4.0	71
249	Science and technology in high-entropy alloys. <i>Science China Materials</i> , 2018, 61, 2-22.	3.5	679
250	Truncated concave octahedral Cu₂O nanocrystals with {111} high-index facets for enhanced activity and stability in heterogeneous catalytic azideâ€“alkyne cycloaddition. <i>Green Chemistry</i> , 2018, 20, 832-837.	4.6	31
251	Vertexâ€“Reinforced PtCuCo Ternary Nanoframes as Efficient and Stable Electrocatalysts for the Oxygen Reduction Reaction and the Methanol Oxidation Reaction. <i>Advanced Functional Materials</i> , 2018, 28, 1706440.	7.8	161
252	Three-Dimensional Dendrite Cuâ€“Co/Reduced Graphene Oxide Architectures on a Disposable Pencil Graphite Electrode as an Electrochemical Sensor for Nonenzymatic Glucose Detection. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1909-1918.	3.2	115
253	A highly efficient nano-sized Cu₂O/SiO₂-egg-shell catalyst for Câ€“C coupling reactions. <i>RSC Advances</i> , 2018, 8, 6200-6205.	1.7	24
254	Benzil/triethylamine: a photo-reducing system for Cu ²⁺ . <i>Monatshefte für Chemie</i> , 2018, 149, 499-504.	0.9	4
255	Reductantâ€“Free Synthesis of Silver Nanoparticles by Functionalized Hollow Doughnut Mesoporous Silica Nanoparticles for Preparation of Catalytic Nanoreactor. <i>ChemistrySelect</i> , 2018, 3, 1772-1780.	0.7	9
256	Rapid electrochemical conversion of smooth Cu surfaces to urchin-like Cu nanowire arrays via flower-like Cu ₂ Se nanosheets as an advanced nonenzymatic glucose sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 801-809.	4.0	15
257	Solidâ€“Solution Alloy Nanoparticles of the Immiscible Iridiumâ€“Copper System with a Wide Composition Range for Enhanced Electrocatalytic Applications. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4505-4509.	7.2	86
258	Copper Template Design for the Synthesis of Bimetallic Copperâ€“Rhodium Nanoshells through Galvanic Replacement. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700420.	1.2	9

#	ARTICLE	IF	CITATIONS
259	Biosynthesis and Characterization of Copper Nanoparticles Using <i>Shewanella oneidensis</i> : Application for Click Chemistry. <i>Small</i> , 2018, 14, 1703145.	5.2	112
260	Degradable NIR-PTT Nanoagents with a Potential Cu ₂ O@Polymer Structure. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5161-5174.	4.0	33
261	Synthesis of Betti base derivatives catalyzed by nano-CuO-ionic liquid and experimental and quantum chemical studies on corrosion inhibition performance of them. <i>Research on Chemical Intermediates</i> , 2018, 44, 2913-2927.	1.3	16
262	Electrochemical Microscopy Based on Spatial Light Modulators: A Projection System to Spatially Address Electrochemical Reactions at Semiconductors. <i>Journal of the Electrochemical Society</i> , 2018, 165, H3085-H3092.	1.3	37
263	The novel Cu nanoaggregates formed by 5 nm Cu nanoparticles with high sintering performance at low temperature. <i>Materials Letters</i> , 2018, 216, 20-23.	1.3	21
264	Solid Supported Nano Structured Cu Catalyst for Solvent/Ligand Free C ₂ Amination of Azoles. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 657-665.	1.2	10
265	MOF-Derived Bifunctional Cu ₃ P Nanoparticles Coated by a N-Doped Carbon Shell for Hydrogen Evolution and Oxygen Reduction. <i>Advanced Materials</i> , 2018, 30, 1703711.	11.1	477
266	Hyperthermia-Promoted Cytosolic and Nuclear Delivery of Copper/Carbon Quantum Dot-Crosslinked Nanosheets: Multimodal Imaging-Guided Photothermal Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1544-1555.	4.0	101
267	Spherical CuO Nanoparticles as Catalyst for Chan-Lam Cross-Coupling Reaction under Base Free Condition. <i>Catalysis Letters</i> , 2018, 148, 547-554.	1.4	19
268	Benign approach for methyl-esterification of oxygenated organic compounds using TBHP as methylating and oxidizing agent. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 278-288.	10.8	17
269	Nanoporous Sulfur-Doped Copper Oxide (Cu ₂ O _x S _{1-x}) for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 745-752.	4.0	83
270	Copper Nanoparticles: Synthesis, Characterization and Its Application as Catalyst for p-Nitrophenol Reduction. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 1195-1205.	1.9	31
271	Copper-supported β -cyclodextrin-functionalized magnetic nanoparticles: Efficient multifunctional catalyst for one-pot green synthesis of 1,2,3-triazolylquinazolinone derivatives. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4212.	1.7	27
272	Development of Efficient Copper-Based MOF-Derived Catalysts for the Reduction of Aromatic Nitro Compounds. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 1073-1079.	1.0	36
273	Solvent-Free Synthesis of Nanoparticles. , 2018, , 609-646.		5
274	Carbon dioxide hydrogenation to methanol over multi-functional catalyst: Effects of reactants adsorption and metal-oxide(s) interfacial area. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 156-165.	2.9	47
275	The photocatalytic role of electrodeposited copper on pencil graphite. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3430-3432.	1.3	24
276	Nanocatalysts for C-Se cross-coupling reactions. <i>RSC Advances</i> , 2018, 8, 291-301.	1.7	39

#	ARTICLE	IF	CITATIONS
277	Highly Stable Copper(I)-Based Metal-Organic Framework Assembled with Resorcin[4]arene and Polyoxometalate for Efficient Heterogeneous Catalysis of Azide-Alkyne "Click" Reaction. ACS Applied Materials & Interfaces, 2018, 10, 2628-2636.	4.0	88
278	Progress in Synthesis of Propargylamine and Its Derivatives by Nanoparticle Catalysis via A3 coupling: A Decade Update. ChemistrySelect, 2018, 3, 147-169.	0.7	69
279	Water-Mediated One-Pot Three-Component Synthesis of Hydrazinyl-Thiazoles Catalyzed by Copper Oxide Nanoparticles Dispersed on Titanium Dioxide Support: A Green Catalytic Process. Advanced Synthesis and Catalysis, 2018, 360, 995-1006.	2.1	26
280	Nitrogen-doped graphene supported copper catalysts for methanol oxidative carbonylation: Enhancement of catalytic activity and stability by nitrogen species. Carbon, 2018, 130, 185-195.	5.4	89
281	Chemical formation of soft metal electrodes for flexible and wearable electronics. Chemical Society Reviews, 2018, 47, 4611-4641.	18.7	245
282	Multiple Cores-Shell Structured Cu@SiO ₂ Ultrathin Leaf-Shaped Nanocomposite: Facile Fabrication and Excellent Selective Catalytic Hydrogenation Performance. ChemistrySelect, 2018, 3, 4643-4652.	0.7	1
283	Synthesis and Characterization of Pure Copper Nanostructures Using Wood Inherent Architecture as a Natural Template. Nanoscale Research Letters, 2018, 13, 119.	3.1	32
284	The morphological impact of siliceous porous carriers on copper-catalysts for selective direct CO ₂ hydrogenation to methanol. International Journal of Hydrogen Energy, 2018, 43, 9334-9342.	3.8	36
285	Synthesis of copper oxide nanowires and nanoporous copper <i>via</i> environmentally friendly transformation of bulk copper-calcium alloys. Chemical Communications, 2018, 54, 5446-5449.	2.2	5
286	Dual-Responsive [2]Pseudorotaxane On the basis of a pH-Sensitive Pillar[5]arene and Its Application in the Fabrication of Metallosupramolecular Polypseudorotaxane. Macromolecules, 2018, 51, 2716-2722.	2.2	29
287	Solvent-free synthesis of monodisperse Cu nanoparticles by thermal decomposition of an oleylamine-coordinated Cu oxalate complex. Dalton Transactions, 2018, 47, 5342-5347.	1.6	18
288	Silica-Protection-Assisted Encapsulation of Cu ₂ O Nanocubes into a Metal-Organic Framework (ZIF-8) To Provide a Composite Catalyst. Angewandte Chemie, 2018, 130, 6950-6953.	1.6	36
289	Towards green synthesis of monodisperse Cu nanoparticles: An efficient and high sensitive electrochemical nitrite sensor. Sensors and Actuators B: Chemical, 2018, 266, 873-882.	4.0	133
290	Ultrarapid in Situ Synthesis of Cu ₂ S Nanosheet Arrays on Copper Foam with Room-Temperature-Active Iodine Plasma for Efficient and Cost-Effective Oxygen Evolution. ACS Catalysis, 2018, 8, 3859-3864.	5.5	129
291	A strategy for synthesis of copper nanoparticles from recovered metal of waste printed circuit boards. Journal of Cleaner Production, 2018, 185, 653-664.	4.6	57
292	Analysis of multi-scale Ni particles generated by ultrasonic aided electrical discharge erosion in pure water. Advanced Powder Technology, 2018, 29, 863-873.	2.0	14
293	A Stable Plasmonic Cu@Cu ₂ O/ZnO Heterojunction for Enhanced Photocatalytic Hydrogen Generation. ChemSusChem, 2018, 11, 1505-1511.	3.6	91
294	APTES-functionalized Fe ₃ O ₄ microspheres supported Cu atom-clusters with superior catalytic activity towards 4-nitrophenol reduction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 547, 28-36.	2.3	36

#	ARTICLE	IF	CITATIONS
295	A nano magnetically mesoporous catalyst for the synthesis of propargylamine derivatives. Journal of Porous Materials, 2018, 25, 147-159.	1.3	13
296	Polyethylene imine capped copper nanoclusters- fluorescent and colorimetric onsite sensor for the trace level detection of TNT. Sensors and Actuators B: Chemical, 2018, 254, 811-819.	4.0	86
297	Copper nanoparticles incorporated on a mesoporous carbon nitride, an excellent catalyst in the Huisgen 1,3-dipolar cycloaddition and N -arylation of N -heterocycles. Applied Organometallic Chemistry, 2018, 32, e3914.	1.7	9
298	Support effects and reaction mechanism of acetylene trimerization over silica-supported Cu 4 clusters: A DFT study. Surface Science, 2018, 668, 125-133.	0.8	9
299	Understanding the Colloidal Stability of Nanoparticle-Ligand Complexes: Design, Synthesis, and Structure-Function Relationship Studies of Amphiphilic Small-Molecule Ligands. Chemistry - A European Journal, 2018, 24, 1853-1858.	1.7	15
300	Influence of oxygen-containing groups of activated carbon aerogels on copper/activated carbon aerogels catalyst and synthesis of dimethyl carbonate. Journal of Materials Science, 2018, 53, 1833-1850.	1.7	20
301	Synthesis, characterization and catalytic properties of copper-substituted hydroxyapatite nanocrystals. Materials Research Bulletin, 2018, 97, 560-566.	2.7	55
302	Catalytic Asymmetric Huisgen Alkyne-Azide Cycloaddition of Bisalkynes by Copper(I) Nanoparticles. ChemCatChem, 2018, 10, 280-286.	1.8	36
303	The influence of plasma operation parameters on synthesis process of copper particles at atmospheric pressure. Plasma Processes and Polymers, 2018, 15, 1700091.	1.6	9
304	Exceptional catalytic performance of ultrafine Cu ₂ O nanoparticles confined in cubic mesoporous carbon for 4-nitrophenol reduction. Applied Surface Science, 2018, 427, 1217-1226.	3.1	57
305	Mechanistic Studies on the Role of [Cu ^{II} (CO ₃) ₂ ·nH ₂ O] as a Water Oxidation Catalyst: Carbonate as a Non-Innocent Ligand. Chemistry - A European Journal, 2018, 24, 1088-1096.	1.7	21
306	X-ray and ion irradiation effects on azurite, malachite and alizarin pictorial models. Microchemical Journal, 2018, 137, 381-391.	2.3	15
307	Copper ferrite supported gold nanoparticles as efficient and recyclable catalyst for liquid-phase ethanol oxidation. Journal of Catalysis, 2018, 357, 108-117.	3.1	28
308	Direct synthesis of formic acid via CO ₂ hydrogenation over Cu/ZnO/Al ₂ O ₃ catalyst. Journal of Cleaner Production, 2018, 172, 1957-1977.	4.6	54
309	Hierarchical Cu nanoparticle-aggregated cages with high catalytic activity for reduction of 4-nitrophenol and carbon dioxide. Materials Research Bulletin, 2018, 100, 184-190.	2.7	40
310	Cu ²⁺ -Modified Metal-Organic Framework Nanoparticles: A Peroxidase-Mimicking Nanoenzyme. Small, 2018, 14, 1703149.	5.2	131
311	Copper nanoparticles grafted on carbon microspheres as novel heterogeneous catalysts and their application for the reduction of nitrophenol and one-pot multicomponent synthesis of hexahydroquinolines. New Journal of Chemistry, 2018, 42, 1092-1098.	1.4	43
312	Fabrication and characterisation of ligand-functionalised ultrapure monodispersed metal nanoparticle nanoassemblies employing advanced gas deposition technique. Nanotechnology, 2018, 29, 065603.	1.3	9

#	ARTICLE	IF	CITATIONS
313	Cellulose gum and copper nanoparticles based hydrogel as antimicrobial agents against urinary tract infection (UTI) pathogens. International Journal of Biological Macromolecules, 2018, 109, 803-809.	3.6	42
314	Carbon copper thin films for discoloration of indigo carmine. Vacuum, 2018, 148, 136-139.	1.6	4
315	Polymer-Supported Cu ^{II} Nanoparticle as an Efficient and Recyclable Catalyst for Oxidative Homocoupling of Terminal Alkynes. Catalysis Letters, 2018, 148, 205-213.	1.4	16
316	Copper-containing nanocomposites in catalytic systems. IOP Conference Series: Materials Science and Engineering, 2018, 447, 012087.	0.3	1
317	Nanostructured Pd ^{II} /Cu Catalysts Supported on Zr ^{IV} Al and Zr ^{IV} Ti for Synthesis of Vinyl Acetate. ChemCatChem, 2018, 10, 5256-5269.	1.8	6
318	Characterization of Highly Dispersed Rod- and Particle-Shaped CuFe ₁₉ O _x Catalysts and Their Shape Effects on WGS. Catalysts, 2018, 8, 635.	1.6	10
319	Growth and shape stability of Cu ^{II} /Ni core-shell nanoparticles: an atomistic perspective. Chemical Communications, 2018, 54, 13583-13586.	2.2	5
320	One-step solvothermal fabrication of Cu@PANI core-shell nanospheres for hydrogen evolution. Nanoscale, 2018, 10, 22055-22064.	2.8	37
322	Biosynthesized Quantum Dot Size Cu Nanocatalyst: Peroxidase Mimetic and Aqueous Phase Conversion of Fructose. ChemistrySelect, 2018, 3, 12183-12191.	0.7	2
323	Silver Nanowire-Catalyzed Three-Component Coupling of Carbon Dioxide, Amines and Propargylic Alcohols for the Synthesis of α -Oxopropyl Carbamates. Asian Journal of Organic Chemistry, 2019, 8, 179-184.	1.3	5
324	Mild Synthesis of Copper Nanoparticles with Enhanced Oxidative Stability and Their Application in Antibacterial Films. Langmuir, 2018, 34, 14570-14576.	1.6	36
325	Biosynthesis of flower-shaped Au nanoclusters with EGCG and their application for drug delivery. Journal of Nanobiotechnology, 2018, 16, 90.	4.2	23
326	Cu ^{II} /Ni ^{II} /Al Spinel Oxide as an Efficient Durable Catalyst for Methanol Steam Reforming. ChemCatChem, 2018, 10, 5698-5706.	1.8	37
327	3-Heterosubstituted Benzofurans from Hydroxyphenyl Propargyl Alcohols via <i>ortho</i> -Quinone Methide through a Metal-/Catalyst-Free Conjugate Addition/Oxy-Cyclization. ACS Omega, 2018, 3, 17155-17163.	1.6	8
328	Preparation and Use of Chemically Modified Noble Metal Nanoparticles. Russian Journal of Applied Chemistry, 2018, 91, 1393-1411.	0.1	10
329	Green synthesis of Cu/zirconium silicate nanocomposite by using <i>Rubia tinctorum</i> leaf extract and its application in the preparation of N-benzyl-N-arylcyanamides. Applied Organometallic Chemistry, 2019, 33, e4705.	1.7	13
330	Mussel-Inspired Catechol-Formaldehyde Resin-Coated Fe ₃ O ₄ Core-Shell Magnetic Nanospheres: An Effective Catalyst Support for Highly Active Palladium Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 44535-44545.	4.0	19
331	The stability of Cu clusters and their adsorption for CH ₄ and CH ₃ by first principle calculations. Journal of Chemical Physics, 2018, 149, 204310.	1.2	3

#	ARTICLE	IF	CITATIONS
332	Copper Nanoparticles as Antibacterial Agents. Journal of Molecular Pharmaceutics & Organic Process Research, 2018, 06, .	2.0	84
333	Interfacial interactions in PMMA/silica nanocomposites enhance the performance of parts created by Fused Filament Fabrication. Polymer, 2018, 157, 87-94.	1.8	25
334	Current technological trends in biosensors, nanoparticle devices and biolabels: Hi—tech network sensing applications. Medical Devices & Sensors, 2018, 1, e10011.	2.7	16
335	Copper accumulation and toxicity in earthworms exposed to CuO nanomaterials: Effects of particle coating and soil ageing. Ecotoxicology and Environmental Safety, 2018, 166, 462-473.	2.9	50
336	A simple chemical solution synthesis of nanowire-assembled hierarchical CuO microspheres with enhanced photochemical properties. Dalton Transactions, 2018, 47, 15009-15016.	1.6	6
337	Hierarchical Cu₂S nanorods with different crystal phases for asymmetrical supercapacitors and visible-light photocatalysis. Dalton Transactions, 2018, 47, 15189-15196.	1.6	22
338	Popping of g-C ₃ N ₄ mixed with cupric nitrate: Facile synthesis of Cu-based catalyst for construction of C N bond. Green Energy and Environment, 2018, 3, 368-374.	4.7	8
339	Direct synthesis of magnetron sputtered nanostructured Cu films with desired properties via plasma chemistry for their efficient antibacterial application. Plasma Processes and Polymers, 2018, 15, 1800009.	1.6	4
340	Nanoparticles in tissue engineering: applications, challenges and prospects. International Journal of Nanomedicine, 2018, Volume 13, 5637-5655.	3.3	287
342	Rational Ligand Design To Improve Agrochemical Delivery Efficiency and Advance Agriculture Sustainability. ACS Sustainable Chemistry and Engineering, 2018, 6, 13599-13610.	3.2	37
343	Synthesis of Dihydroindoloisoquinolines through Copper—Catalyzed Cross—Dehydrogenative Coupling of Tetrahydroisoquinolines and Nitroalkanes. Chemistry - A European Journal, 2018, 24, 18857-18862.	1.7	16
344	Copper (0) Doping Makes Cobalt-Nickel Hydroxide a High-Efficiency Catalyst for Hydrogen Evolution Reaction. Journal of the Electrochemical Society, 2018, 165, H866-H871.	1.3	12
345	The construction of Mo—O ₃ -supported catalyst for low-temperature propylene gas-phase epoxidation by Cu modification. Journal of Catalysis, 2018, 368, 120-133.	3.1	12
346	Green Synthesis of Metal, Metal Oxide Nanoparticles, and Their Various Applications. , 2018, , 1-45.		21
348	Copper nanostructures for chemical analysis using surface-enhanced Raman spectroscopy. TrAC - Trends in Analytical Chemistry, 2018, 108, 247-259.	5.8	56
349	Surprisingly high sensitivity of copper nanoparticles toward coordinating ligands: consequences for the hydride reduction of benzaldehyde. Catalysis Science and Technology, 2018, 8, 5073-5080.	2.1	10
350	Environmentally sustainable route to SiO₂@Au—Ag nanocomposites for biomedical and catalytic applications. RSC Advances, 2018, 8, 31311-31321.	1.7	14
351	Interface Tailoring of Heterogeneous Catalysts by Atomic Layer Deposition. ACS Catalysis, 2018, 8, 10064-10081.	5.5	109

#	ARTICLE	IF	CITATIONS
352	Enzyme-immobilized metal-organic framework nanosheets as tandem catalysts for the generation of nitric oxide. <i>Chemical Communications</i> , 2018, 54, 11176-11179.	2.2	52
353	An overview on conversion technologies to produce value added products from CH ₄ and CO ₂ as major biogas constituents. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 98, 56-63.	8.2	74
354	Concurrent Synthesis of Zero- and One-Dimensional, Spherical, Rod-, Needle-, and Wire-Shaped CuO Nanoparticles by <i>Proteus mirabilis</i> 10B. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-14.	1.5	11
355	An inorganic-MOF-inorganic approach to ultrathin CuO decorated Cu-C hybrid nanorod arrays for an efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19176-19181.	5.2	65
356	Copper Discoloration: Correlation Between Copper Oxidation States and Their Colors. , 2018, , .		1
357	Toxicity of copper hydroxide nanoparticles, bulk copper hydroxide, and ionic copper to alfalfa plants: A spectroscopic and gene expression study. <i>Environmental Pollution</i> , 2018, 243, 703-712.	3.7	45
358	Influence of Cu on the Performance of Tuberoses Architecture of Strontium Hydroxide Thin Film as a Supercapacitor Electrode. <i>ChemElectroChem</i> , 2018, 5, 4021-4028.	1.7	8
359	Synthesis of copper nanoparticles supported on MoO ₃ using Sun spurge leaf extract and their catalytic activity. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4531.	1.7	8
360	The influence of copper addition on the electrical conductivity and charge transfer resistance of reduced graphene oxide (rGO). <i>New Journal of Chemistry</i> , 2018, 42, 16362-16371.	1.4	25
361	Exponential surface melting of Cu nanoparticles observed by in-situ TEM. <i>Materials Characterization</i> , 2018, 145, 246-249.	1.9	6
362	Plasmonic Au-Loaded Hierarchical Hollow Porous TiO ₂ Spheres: Synergistic Catalysts for Nitroaromatic Reduction. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5317-5326.	2.1	56
363	Magnetic Nanoparticle-Supported Cu-NHC Complex as an Efficient and Recoverable Catalyst for Nitrile Hydration. <i>Catalysis Letters</i> , 2018, 148, 3378-3388.	1.4	16
364	Copper nanodot-embedded graphene urchins of nearly full-spectrum solar absorption and extraordinary solar desalination. <i>Nano Energy</i> , 2018, 53, 425-431.	8.2	99
365	Atomic-Scale Determination of Cation Inversion in Spinel-Based Oxide Nanoparticles. <i>Nano Letters</i> , 2018, 18, 5854-5861.	4.5	24
366	Introductory Chapter: Overview of the Properties and Applications of Noble and Precious Metals. , 0, , .		4
367	Bismesitoylphosphinic Acid (BAPO-OH): A Ligand for Copper Complexes and Four-Electron Photoreductant for the Preparation of Copper Nanomaterials. <i>Angewandte Chemie</i> , 2018, 130, 7823-7828.	1.6	3
368	Tailoring the reducibility and catalytic activity of CuO nanoparticles for low temperature CO oxidation. <i>RSC Advances</i> , 2018, 8, 19499-19511.	1.7	70
369	Bismesitoylphosphinic Acid (BAPO-OH): A Ligand for Copper Complexes and Four-Electron Photoreductant for the Preparation of Copper Nanomaterials. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7697-7702.	7.2	15

#	ARTICLE	IF	CITATIONS
370	Investigation of metallic nanoparticles adsorbed on the QCM sensor by SEM and AFM techniques. Bulletin of Materials Science, 2018, 41, 1.	0.8	2
371	Self-supported three-dimensional Cu/Cu ₂ O@CuO/rGO nanowire array electrodes for an efficient hydrogen evolution reaction. Chemical Communications, 2018, 54, 6388-6391.	2.2	37
372	Diaryl ethers synthesis: nano-catalysts in carbon-oxygen cross-coupling reactions. RSC Advances, 2018, 8, 19125-19143.	1.7	41
373	Cu(<i>scpv</i>) Schiff base complex intercalated into layered double hydroxide for selective oxidation of ethylbenzene under solvent-free conditions. RSC Advances, 2018, 8, 18814-18827.	1.7	18
374	As(III) Removal from Drinking Water by Carbon Nanotube Membranes with Magnetron-Sputtered Copper: Performance and Mechanisms. ACS Applied Materials & Interfaces, 2018, 10, 20467-20477.	4.0	16
375	Fluorescence turn on detection of bilirubin using Fe (III) modulated BSA stabilized copper nanocluster; A mechanistic perception. Analytica Chimica Acta, 2018, 1031, 152-160.	2.6	66
376	One-step fabrication of Cu nanoparticles on silicate glass substrates for surface plasmonic sensors. Journal of Non-Crystalline Solids, 2018, 495, 95-101.	1.5	7
377	Copper oxide thin films anchored on glass substrate by sol gel spin coating technique. AIP Conference Proceedings, 2018, , .	0.3	2
378	Unusually Large Lattice Mismatch-Induced Optical Behaviors of Au@Cu ₂ O Core-Shell Nanocrystals with Noncentrally Located Cores. Particle and Particle Systems Characterization, 2018, 35, 1800112.	1.2	15
380	Two-dimensional Mixed Phase Leaf-Ti ₂ Cu ₂ O ₂ Sheets Synthesized Based on a Natural Leaf Template for Increased Photocatalytic H ₂ Evolution. ChemCatChem, 2018, 10, 3813-3823.	1.8	14
381	Direct Synthesis of Nanomaterials: Building Bridges Between Metal Complexes and Nanomaterials . , 2018, , 317-337.		0
382	Role of Surface Hydroxyl Species in Copper-Catalyzed Hydrogenation of Ketones. ACS Catalysis, 2018, 8, 7539-7548.	5.5	35
383	Nano sheets, needles and grains-like CuO/Al ₂ O ₃ catalysts™ performance in carbon monoxide oxidation. Journal of Solid State Chemistry, 2018, 265, 431-439.	1.4	10
384	Antimicrobial copper nanoparticles synthesized from waste printed circuit boards using advanced chemical technology. Waste Management, 2018, 78, 521-531.	3.7	37
385	Titanium glycolate-derived TiO ₂ nanomaterials: Synthesis and applications. Advanced Powder Technology, 2018, 29, 2289-2311.	2.0	41
386	Single-Atomic Cu with Multiple Oxygen Vacancies on Ceria for Electrocatalytic CO ₂ Reduction to CH ₄ . ACS Catalysis, 2018, 8, 7113-7119.	5.5	486
387	Multilayer-by-multilayer surface melting of Cu(200). Physical Review B, 2018, 98, .	1.1	0
388	Supported benzimidazole-salen Cu(II) complex: An efficient, versatile and highly reusable nanocatalyst for one-pot synthesis of hybrid molecules. Applied Organometallic Chemistry, 2018, 32, e4446.	1.7	21

#	ARTICLE	IF	CITATIONS
389	Environmentally friendly synthesis and formation mechanism of copper nanowires with controlled aspect ratios from aqueous solution with ascorbic acid. Journal of Colloid and Interface Science, 2018, 531, 109-118.	5.0	15
390	Copper Selenides as High-Efficiency Electrocatalysts for Oxygen Evolution Reaction. ACS Applied Energy Materials, 2018, 1, 4075-4083.	2.5	114
391	Cobaltocene Reduction of Cu and Ag Salts and Catalytic Behavior of the Nanoparticles Formed. ACS Catalysis, 2018, 8, 8100-8106.	5.5	25
392	Recent Trends in Biomedical and Pharmaceutical Industry Due to Engineered Nanomaterials. , 2018, , 499-519.		1
393	CuO/Cu ₂ O nanoparticles: A simple and green synthesis, characterization and their electrocatalytic performance toward formaldehyde oxidation. Microchemical Journal, 2018, 143, 64-71.	2.3	57
394	A novel, chelator-free method for ⁶⁴ Cu labeling of dendrimers. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	7
395	An effective non-enzymatic biosensor platform based on copper nanoparticles decorated by sputtering on CVD graphene. Sensors and Actuators B: Chemical, 2018, 273, 1501-1507.	4.0	39
396	Direct synthesis of alkynylphosphonates from alkynes and phosphite esters catalyzed by Cu/Cu ₂ O nanoparticles supported on Nb ₂ O ₅ . New Journal of Chemistry, 2018, 42, 13957-13962.	1.4	12
397	Impact of ablation time on Cu oxide nanoparticle green synthesis via pulsed laser ablation in liquid media. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	21
398	Efficient selective oxidation of propylene by dioxygen on mesoporous-silica-nanoparticle-supported nanosized copper. Journal of Catalysis, 2018, 365, 411-419.	3.1	20
399	Application of 3D Printed Porous Copper Anode in Microbial Fuel Cells. Frontiers in Energy Research, 2018, 6, .	1.2	35
400	PdO/ZnO@mSiO ₂ Hybrid Nanocatalyst for Reduction of Nitroarenes. Catalysts, 2018, 8, 280.	1.6	9
401	Strategies to synthesise copper oxide nanoparticles and their bio applications – a review. Materials Science and Technology, 2018, 34, 2214-2222.	0.8	32
402	Tailoring Cu Nanoparticle Catalyst for Methanol Synthesis Using the Spinning Disk Reactor. Materials, 2018, 11, 154.	1.3	12
403	Controlled Synthesis of Cu and Cu ₂ O NPs and Incorporation of Octahedral Cu ₂ O NPs in Cellulose II Films. Nanomaterials, 2018, 8, 238.	1.9	9
404	Dopant-induced electron localization drives CO ₂ reduction to C ₂ hydrocarbons. Nature Chemistry, 2018, 10, 974-980.	6.6	781
405	Highly Dispersed Cu ⁺ N _x Moieties Embedded in Graphene: A Promising Electrocatalyst towards the Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 3323-3329.	1.7	30
406	Graphenide Solutions: A Chemical Platform for Nanoparticle–Nanocarbon Composites. Chemistry - A European Journal, 2018, 24, 16246-16250.	1.7	8

#	ARTICLE	IF	CITATIONS
407	Density Functional Theory Study of Water Photo-Oxidation at Copper Oxide Nanostructures on the Anatase (101) Surface. Journal of Physical Chemistry C, 2018, 122, 16765-16771.	1.5	5
408	Zn ²⁺ Induced Self-Assembled Growth of Octapodal Cu ₂ O@ZnO Microcrystals: Multifunctional Applications in Reductive Degradation of Organic Pollutants and Nonenzymatic Electrochemical Sensing of Glucose. ACS Sustainable Chemistry and Engineering, 2018, 6, 9771-9783.	3.2	29
409	Copper and palladium nanostructures: a bacteriogenic approach. Applied Microbiology and Biotechnology, 2018, 102, 7693-7701.	1.7	45
410	Low-cost and high-throughput synthesis of copper nanopowder for nanofluid applications. Chemical Engineering Journal, 2018, 353, 34-45.	6.6	35
411	Copper stearate as a catalyst for improving the oxidation performance of heavy oil in in-situ combustion process. Applied Catalysis A: General, 2018, 564, 79-89.	2.2	42
412	Diastereoselective synthesis of propargylamines catalyzed by Cu-MCM-41. Tetrahedron Letters, 2018, 59, 2403-2406.	0.7	10
413	Precisely controlled fabrication, manipulation and in-situ analysis of Cu based nanoparticles. Scientific Reports, 2018, 8, 7250.	1.6	27
414	Ultrasonic-assisted chemical reduction synthesis and structural characterization of copper nanoparticles. AIP Conference Proceedings, 2018, , .	0.3	1
415	Synthesis and photophysical studies of a multivalent photoreactive Ru ^{II} -calix[4]arene complex bearing RGD-containing cyclopentapeptides. Beilstein Journal of Organic Chemistry, 2018, 14, 1758-1768.	1.3	5
416	Cu nanocrystal enhancement of C ₃ N ₄ /Cu hetero-structures and new applications in photo-electronic catalysis: hydrazine oxidation and redox reactions of organic molecules. Inorganic Chemistry Frontiers, 2018, 5, 2420-2424.	3.0	9
417	Cu-Au nanocrystals functionalized carbon nanotube arrays vertically grown on carbon spheres for highly sensitive detecting cancer biomarker. Biosensors and Bioelectronics, 2018, 119, 134-140.	5.3	34
418	Hexagonal Mesoporous Silica Supported Ultrasmall Copper Oxides for Oxidative Amidation of Carboxylic Acids. ACS Sustainable Chemistry and Engineering, 2018, 6, 12935-12945.	3.2	14
419	Influence of the Molecular Mass of Poly(N-vinylpyrrolidone) on Formation of Cu ₂ O Nanoparticles During Reduction of Divalent Copper Ions with tert-Butylamine Borane in Polymer Solution. Polymer Science - Series B, 2018, 60, 455-463.	0.3	6
420	New copper-containing catalysts based on modified amorphous silica and their use in flow azide-alkyne cycloaddition. Russian Chemical Bulletin, 2018, 67, 461-468.	0.4	3
421	Graphene-Anchored Cuprous Oxide Nanoparticles from Waste Electric Cables for Electrochemical Sensing. ACS Sustainable Chemistry and Engineering, 2018, 6, 12176-12186.	3.2	36
422	Electrospun CuO-Nanoparticles-Modified Polycaprolactone @Polypyrrole Fibers: An Application to Sensing Glucose in Saliva. Nanomaterials, 2018, 8, 133.	1.9	36
423	In Situ XAS Study on Growth of PVP-Stabilized Cu Nanoparticles. ChemistrySelect, 2018, 3, 7370-7377.	0.7	7
424	Ni ₂ B@Cu ₂ O and Ni ₂ B@CuCl ₂ : two new simple and efficient nanocatalysts for the green one-pot reductive acetylation of nitroarenes and direct N-acetylation of arylamines using solvent-free mechanochemical grinding. Research on Chemical Intermediates, 2018, 44, 7331-7352.	1.3	23

#	ARTICLE	IF	CITATIONS
425	Conversion of Carbon Dioxide: Opportunities and Fundamental Challenges. American Journal of Engineering and Applied Sciences, 2018, 11, 138-153.	0.3	2
426	Design and synthesis of surface-controlled CuOx/rGO nanocomposites with unusually high efficiency in catalytic conversion of organic reactants in the presence of NaBH ₄ . Applied Surface Science, 2018, 459, 716-722.	3.1	28
427	Comparative study of antifungal activity of silver and gold nanoparticles synthesized by facile chemical approach. Journal of Environmental Chemical Engineering, 2018, 6, 5837-5844.	3.3	73
428	High efficiency photocatalytic hydrogen production over ternary Cu/TiO ₂ @Ti ₃ C ₂ Tx enabled by low-work-function 2D titanium carbide. Nano Energy, 2018, 53, 97-107.	8.2	300
429	Recent advances in the precise control of isolated single-site catalysts by chemical methods. National Science Review, 2018, 5, 673-689.	4.6	244
430	CuO Nanoparticles as An Efficient Heterogeneous Catalyst for the 1,3- π -Dipolar Cycloaddition of Dicarbonyl Compounds to Azides. ChemistrySelect, 2018, 3, 6195-6202.	0.7	16
431	Aerobic oxidative amidation of alkynes using titanium oxide encapsulated cuprous iodide nanoparticles (CuI@TiO ₂). New Journal of Chemistry, 2018, 42, 12062-12071.	1.4	14
432	Alumina/graphene/Cu hybrids as highly selective sensor for simultaneous determination of epinephrine, acetaminophen and tryptophan in human urine. Journal of Electroanalytical Chemistry, 2018, 823, 184-192.	1.9	29
433	Reduced Graphene Oxide Supported Copper Oxide Nanocomposites from a Renewable Copper Mineral Precursor: A Green Approach for Decarboxylative C(sp ³)-H Activation of Proline Amino Acid To Afford Value-Added Synthons. ACS Sustainable Chemistry and Engineering, 2018, 6, 10039-10051.	3.2	26
434	Influence of deposition temperature on the structure and catalytic properties of the copper nanotubes composite membranes. Materials Research Express, 2018, 5, 065041.	0.8	17
435	Morphology, large scale synthesis and building applications of copper nanomaterials. Construction and Building Materials, 2018, 180, 544-578.	3.2	27
436	Steering post-C-C coupling selectivity enables high efficiency electroreduction of carbon dioxide to multi-carbon alcohols. Nature Catalysis, 2018, 1, 421-428.	16.1	537
437	Recent progress in improving the stability of copper-based catalysts for hydrogenation of carbon-oxygen bonds. Catalysis Science and Technology, 2018, 8, 3428-3449.	2.1	89
438	Recent advances and future prospects of iron oxide nanoparticles in biomedicine and diagnostics. 3 Biotech, 2018, 8, 279.	1.1	221
439	Cobalt-entrenched N-, O-, and S-tridoped carbons as efficient multifunctional sustainable catalysts for base-free selective oxidative esterification of alcohols. Green Chemistry, 2018, 20, 3542-3556.	4.6	47
440	Copper nanotube composite membrane as a catalyst in Mannich reaction. Chemical Papers, 2018, 72, 3189-3194.	1.0	19
441	CuI nanoparticle-catalyzed synthesis of tetracyclic benzo[<i>e</i>]benzo[4,5]imidazo[1,2- <i>c</i>][1,3]thiazin-6-imine heterocycles by S _N Ar-type C-S, C-N bond formation from isothiocyanatobenzenes and benzimidazoles. RSC Advances, 2018, 8, 22259-22267.	1.7	15
442	Copper-Based Bulk and Nano-Catalysts for the One-Pot Propargylamine Synthesis. Mini-Reviews in Organic Chemistry, 2019, 16, 361-368.	0.6	7

#	ARTICLE	IF	CITATIONS
443	Efficient removal of As(III) by Cu nanoparticles intercalated in carbon nanotube membranes for drinking water treatment. Chemical Engineering Journal, 2019, 355, 341-350.	6.6	78
444	Photocatalysis for Hydrogen Production and CO ₂ Reduction: The Case of Copper Catalysts. ChemCatChem, 2019, 11, 368-382.	1.8	131
445	Cu-Based Nanoparticles as Emerging Environmental Catalysts. Chemical Record, 2019, 19, 462-473.	2.9	31
446	Designing hybrid materials with multifunctional interfaces for wound dressing, electrocatalysis, and chemical separation. Journal of Colloid and Interface Science, 2019, 533, 106-125.	5.0	16
447	Decahedral nanocrystals of noble metals: Synthesis, characterization, and applications. Materials Today, 2019, 22, 108-131.	8.3	92
448	Nano-agromaterials: Influence on plant growth and crop protection. , 2019, , 341-363.		5
449	Emerging investigator series: connecting concepts of coinage metal stability across length scales. Environmental Science: Nano, 2019, 6, 2674-2696.	2.2	5
450	Advanced engineering of core/shell nanostructures for electrochemical carbon dioxide reduction. Journal of Materials Chemistry A, 2019, 7, 20478-20493.	5.2	30
451	Continuous Flow Copper Laser Ablation Synthesis of Copper(I and II) Oxide Nanoparticles in Water. ACS Omega, 2019, 4, 13577-13584.	1.6	14
452	Chemobronic Fabrication of Hierarchical Self-Assembling Nanostructures of Copper Oxide and Hydroxide. ChemSystemsChem, 2019, 1, e1900011.	1.1	8
453	Sonochemically Synthesized Spin-Canted CuFe ₂ O ₄ Nanoparticles for Heterogeneous Green Catalytic Click Chemistry. ACS Omega, 2019, 4, 13845-13852.	1.6	39
454	Production of syngas from ethanol CO ₂ reforming on La-doped Cu/Al ₂ O ₃ : Impact of promoter loading. AIP Conference Proceedings, 2019, , .	0.3	5
455	Cu Nanodendrite Foams on Integrated Band Array Electrodes for the Nonenzymatic Detection of Glucose. ACS Applied Nano Materials, 2019, 2, 5878-5889.	2.4	29
456	Template free mild hydrothermal synthesis of core-shell Cu ₂ O(Cu)@CuO visible light photocatalysts for <i>N</i> -acetyl- <i>p</i> -aminophenol degradation. Journal of Materials Chemistry A, 2019, 7, 20767-20777.	5.2	46
457	Construction of stabilized bulk-nano interfaces for highly promoted inverse CeO ₂ /Cu catalyst. Nature Communications, 2019, 10, 3470.	5.8	59
458	A label-free turn ON-OFF chemiluminescence strategy for lysozyme detection by target-triggered Cu ₂ Se aggregation. Analytical Methods, 2019, 11, 4376-4381.	1.3	4
459	Heterostructured 2D ZnO hybrid nanocomposites sensitized with cubic Cu ₂ O nanoparticles for sunlight photocatalysis. Journal of Materials Science, 2019, 54, 13523-13536.	1.7	20
460	Catalytic hydrogenation of dihydrolevoglucosenone to levoglucosan with a hydrotalcite/mixed oxide copper catalyst. Green Chemistry, 2019, 21, 5000-5007.	4.6	18

#	ARTICLE	IF	CITATIONS
461	Electrospun Cu ⁰ -Deposited Flexible Fibers as an Efficient Oxygen Evolution Reaction Electrocatalyst. ChemPhysChem, 2019, 20, 2973-2980.	1.0	7
462	Ru(III)-Based Metal-Organic Gels: Intrinsic Horseradish and NADH Peroxidase-Mimicking Nanozyme. ACS Applied Materials & Interfaces, 2019, 11, 29158-29166.	4.0	55
463	Introduction of Ag/CuO/MCM-48 as an efficient catalyst for the one-pot synthesis of novel pyran-pyrrole hybrids. Applied Organometallic Chemistry, 2019, 33, e5083.	1.7	9
464	A Study of Graphene-Based Copper Catalysts: Copper(I) Nanoplatelets for Batch and Continuous-Flow Applications. Chemistry - an Asian Journal, 2019, 14, 3011-3018.	1.7	9
465	Functional Porous Organic Polymers Comprising a Triaminotriphenylazobenzene Subunit as a Platform for Copper-Catalyzed Aerobic C-H Oxidation. Chemistry of Materials, 2019, 31, 5421-5430.	3.2	37
466	Effect of Dissolved Organic Matter on Agglomeration and Removal of CuO Nanoparticles by Coagulation. Processes, 2019, 7, 455.	1.3	5
467	Highly efficient synthesis of dimethyl carbonate over copper catalysts supported on resin-derived carbon microspheres. Chemical Engineering Science, 2019, 207, 1060-1071.	1.9	20
468	Controllable synthesis of mussel-inspired catechol-formaldehyde resin microspheres and their silver-based nanohybrids for catalytic and antibacterial applications. Polymer Chemistry, 2019, 10, 4537-4550.	1.9	25
469	Applications of Nanomaterials and Nanoparticles. Advanced Structured Materials, 2019, , 565-603.	0.3	3
470	Two-Stage Tunneling-Dominated Electrodeposition for Large-Scale Production of Ultralong Wavy Metal Microstructures on Native Oxide Layer-Passivated Si Electrode with Specific Surface Configuration. Journal of Physical Chemistry C, 2019, 123, 16326-16331.	1.5	0
471	Facile benchtop reactor design using dendrimer-templating technology for the fabrication of polyethyleneimine-coated CuO nanoparticles on the gram scale. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, 041402.	0.9	1
472	[Cu ₆₁ (S ^t Bu) ₂₆ S ₆ Cl ₆ H ₁₄] ⁺ : A Core-Shell Superatom Nanocluster with a Quasi-J ₃₆ Cu ₁₉ Core and an 18-Crown-6-Metal-Sulfide-like Stabilizing Belt. , 2019, 1, 297-302.		76
473	NiCu Bimetallic Nanoparticles on Silica Support for Catalytic Hydrolysis of Ammonia Borane: Composition-Dependent Activity and Support Size Effect. ACS Applied Energy Materials, 2019, 2, 5851-5861.	2.5	53
474	Synthesis, Characterization and Catalytic Application of Starch Supported Cuprous Iodide Nanoparticles. Catalysis Letters, 2019, 149, 3501-3507.	1.4	10
475	Direct recovery of copper nanoparticles from leach pad drainage by surfactant-assisted cementation with iron powder. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 580, 123719.	2.3	11
476	Moderate-pressure conversion of H ₂ and CO ₂ to methanol via adsorption enhanced hydrogenation. International Journal of Hydrogen Energy, 2019, 44, 21913-21925.	3.8	26
477	Surface chemistry and catalysis of oxide model catalysts from single crystals to nanocrystals. Surface Science Reports, 2019, 74, 100471.	3.8	99
478	Autocatalytic Role of Molecular Hydrogen in Copper-Catalyzed Transfer Hydrogenation of Ketones. ACS Catalysis, 2019, 9, 8073-8082.	5.5	16

#	ARTICLE	IF	CITATIONS
479	<i>In situ</i> generated electron-deficient metallic copper as the catalytically active site for enhanced hydrogen production from alkaline formaldehyde solution. <i>Catalysis Science and Technology</i> , 2019, 9, 5292-5300.	2.1	21
480	Stable Pd@Cu Core-Shell Nanocubes with Finely Tuned Sizes for the Reduction of Nitroaromatics. <i>ACS Applied Nano Materials</i> , 2019, 2, 4584-4593.	2.4	11
481	Cu nanowires paper interlinked with cobalt oxide films for enhanced sensing and energy storage. <i>Chemical Communications</i> , 2019, 55, 9031-9034.	2.2	18
482	Catalytic Activity of Composite Track-Etched Membranes Based on Copper Nanotubes in Flow and Static Modes. <i>Petroleum Chemistry</i> , 2019, 59, 552-557.	0.4	10
483	Aqueous-phase synthesis of nanoparticles of copper/copper oxides and their antifungal effect against <i>Fusarium oxysporum</i> . <i>Journal of Hazardous Materials</i> , 2019, 380, 120850.	6.5	44
484	Formation of Copper(I) Oxide- and Copper(I) Cyanide-Polyacetonitrile Nanocomposites through Strong-Field Laser Processing of Acetonitrile Solutions of Copper(II) Acetate Dimer. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6430-6438.	1.1	6
485	Recent Advances in Cu-Based Cocatalysts toward Solar-Driven Hydrogen Evolution: Categories and Roles. <i>Solar Rrl</i> , 2019, 3, 1900256.	3.1	41
486	Morphology Control in AgCu Nanoalloy Synthesis by Molecular Cu(I) Precursors. <i>Inorganic Chemistry</i> , 2019, 58, 15246-15254.	1.9	4
487	Plant mediated synthesis of copper nanoparticles by using <i>Camelia sinensis</i> leaves extract and their applications in dye degradation. <i>Ferroelectrics</i> , 2019, 549, 61-69.	0.3	41
488	Solvents Effect on the Morphology and Stability of Cu/CuO Nanoparticles Synthesized at High Fluence Laser Ablation. <i>ChemistrySelect</i> , 2019, 4, 10471-10482.	0.7	14
489	Photoinduced Fabrication of Cu/TiO ₂ Core-Shell Heterostructures Derived from Cu-MOF for Solar Hydrogen Generation: The Size of the Cu Nanoparticle Matters. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26073-26081.	1.5	26
490	Mechanical response of lightweight hollow truss metal oxide lattices. <i>Materialia</i> , 2019, 8, 100439.	1.3	14
491	An incredible magnetic Pd/CuFe ₂ O ₄ catalyst for low-temperature aqueous Suzuki-Miyaura coupling. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	2
492	Manipulating photocatalytic pathway and activity of ternary Cu ₂ O/(001)TiO ₂ @Ti ₃ C ₂ Tx catalysts for H ₂ evolution: Effect of surface coverage. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 29975-29985.	3.8	50
493	Agar: a natural and environmentally-friendly support composed of copper oxide nanoparticles for the green synthesis of 1,2,3-triazoles. <i>Green Chemistry Letters and Reviews</i> , 2019, 12, 395-406.	2.1	53
494	Synthesis of Highly Monodisperse Cu ₂ O Nanocrystals and Their Applications as Hole-Transporting Layers in Solution-Processed Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2019, 25, 14767-14770.	1.7	7
495	Amino acid secretion influences the size and composition of copper carbonate nanoparticles synthesized by ureolytic fungi. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 7217-7230.	1.7	40
496	Valence-State Controllable Fabrication of Cu ₂ O/Si Type-II Heterojunction for High-Performance Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43376-43382.	4.0	20

#	ARTICLE	IF	CITATIONS
497	Hexagonal Cu(111) Monolayers for Selective CO ₂ Hydrogenation to CH ₃ OH: Insights from Density Functional Theory. ACS Applied Nano Materials, 2019, 2, 7686-7695.	2.4	21
498	Hydrochar-Supported Bimetallic Ni-Cu Nanocatalysts for Sustainable H ₂ Production. ACS Applied Nano Materials, 2019, 2, 7279-7289.	2.4	12
499	Quantum dots based On-Off fluorescence probe for the selective detection of Cu ²⁺ ion: Application to real sample analysis. Chemical Data Collections, 2019, 24, 100300.	1.1	5
500	Reductive and Coordinative Effects of Hydrazine in Structural Transformations of Copper Hydroxide Nanoparticles. Nanomaterials, 2019, 9, 1445.	1.9	14
501	Polyvinylpyrrolidone-Stabilized Copper Nanoparticles as an Efficient and Recyclable Heterogeneous Catalyst for the Click of 1,2,3-Triazoles in Water. Macromolecular Chemistry and Physics, 2019, 220, 1900311.	1.1	6
502	Synthesis and Characterization of Cucurbit[6]uril Supported Copper Oxide Nanoparticles, CuO@CB[6]: Application as Nanocatalyst for the Synthesis of 2 H-Indazoles. ChemistrySelect, 2019, 4, 10408-10416.	0.7	10
503	<p>Self-Assembled Nanofibers Elicit Potent HPV16 E7-Specific Cellular Immunity And Abolish Established TC-1 Graft Tumor</p>. International Journal of Nanomedicine, 2019, Volume 14, 8209-8219.	3.3	13
504	Facile synthesis of hetero-nanostructured cuprous oxide-gold composite material for sensitive enzymeless glucose detection. Journal of Electroanalytical Chemistry, 2019, 851, 113454.	1.9	10
505	Catalysis of material surface defects: Multiscale modeling of methanol synthesis by CO ₂ reduction on copper. Applied Surface Science, 2019, 497, 143783.	3.1	40
506	Exposing the Delocalized Cu-S Bonds on the Au ₂₄ Cu ₆ (SPh-t-Bu) ₂₂ Nanocluster and Its Application in Ring-Opening Reactions. Angewandte Chemie, 2019, 131, 15818-15821.	1.6	9
507	Copper-Tin Alloys for the Electrocatalytic Reduction of CO ₂ in an Imidazolium-Based Non-Aqueous Electrolyte. Energies, 2019, 12, 3132.	1.6	13
508	Photooxidation of Water on Pristine, S- and N-Doped TiO ₂ (001) Nanotube Surfaces: A DFT + <i>U</i> Study. Journal of Physical Chemistry C, 2019, 123, 22691-22698.	1.5	15
509	Cu _x O _y @COF: An efficient heterogeneous catalyst system for CO ₂ cycloadditions under ambient conditions. Journal of CO ₂ Utilization, 2019, 34, 533-542.	3.3	42
510	Exposing the Delocalized Cu-S Bonds on the Au ₂₄ Cu ₆ (SPh-t-Bu) ₂₂ Nanocluster and Its Application in Ring-Opening Reactions. Angewandte Chemie - International Edition, 2019, 58, 15671-15674.	7.2	54
511	A biocompatible chitosan-ionic liquid hybrid catalyst for regioselective synthesis of 1,2,3-triazols. International Journal of Biological Macromolecules, 2019, 140, 939-948.	3.6	14
512	Dual fluorometric and colorimetric sensor based on quenching effect of copper (II) sulfate on the copper nanocluster for determination of sulfide ion in water samples. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 384, 112030.	2.0	23
513	Mechanically Activated Solid-Phase Reaction of Copper(I) Chloride with Sodium 1,2-Diketonates: Formation of Metallic Copper Nanoparticles. Russian Journal of General Chemistry, 2019, 89, 1447-1450.	0.3	0
514	Cost-effective sol-gel synthesis of porous CuO nanoparticle aggregates with tunable specific surface area. Scientific Reports, 2019, 9, 11758.	1.6	76

#	ARTICLE	IF	CITATIONS
515	Enhanced catalytic activity of CuI/diethoxyphosphoryl-1,10-phenanthrolines in H_2O on water H_2 Cu-catalyzed Sonogashira reaction. <i>Mendeleev Communications</i> , 2019, 29, 378-379.	0.6	6
516	Electron Beam Induced Enhancement of the Catalytic Properties of Ion-Track Membranes Supported Copper Nanotubes in the Reaction of the P-Nitrophenol Reduction. <i>Catalysts</i> , 2019, 9, 737.	1.6	17
517	Biofabrication of highly pure copper oxide nanoparticles using wheat seed extract and their catalytic activity: A mechanistic approach. <i>Green Processing and Synthesis</i> , 2019, 8, 691-702.	1.3	91
518	Photonic Curing: Activation and Stabilization of Metal Membrane Catalysts (MMCs) for the Electrochemical Reduction of CO_2 . <i>ACS Catalysis</i> , 2019, 9, 9518-9529.	5.5	9
519	Single-Particle Emission Spectroscopy Resolves d-Hole Relaxation in Copper Nanocubes. <i>ACS Energy Letters</i> , 2019, 4, 2458-2465.	8.8	39
520	Cu Atoms on Nanowire Pd/HWO_3 Bronzes Enhance the Solar Reverse Water Gas Shift Reaction. <i>Journal of the American Chemical Society</i> , 2019, 141, 14991-14996.	6.6	40
521	A Scalable Laser-Assisted Method to Produce Active and Robust Graphene-Supported Nanoparticle Electrocatalysts. <i>Chemistry of Materials</i> , 2019, 31, 8230-8238.	3.2	26
522	Stabilized Cu_2O nanoparticles on rGO highly catalyzed direct oxidative coupling synthesis of α -ketoamides with molecular oxygen. <i>Catalysis Communications</i> , 2019, 132, 105806.	1.6	8
523	Immobilized copper-layered nickel ferrite on acid-activated montmorillonite, $[(\text{NiFe}_2\text{O}_4)_x(\text{H-Mont})_y]$, as a superior magnetic nanocatalyst for the green synthesis of xanthene derivatives. <i>RSC Advances</i> , 2019, 9, 28038-28052.	1.7	20
524	Preparation of copper nanoparticles for metal-metal bonding by aqueous reduction with d-glucose and PVP. <i>Chemical Engineering Science</i> , 2019, 209, 115210.	1.9	28
525	On the comparable activity in plasmonic photocatalytic and thermocatalytic oxidative homocoupling of alkynes over prereduced copper ferrite. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1505-1515.	6.9	7
526	Reversible dual-ion battery via mesoporous Cu_2O cathode in SO_2 -in-salt non-flammable electrolyte. <i>Nano Energy</i> , 2019, 66, 104138.	8.2	14
527	Reactivity of (+)-Catechin with Copper(II) Ions: The Green Synthesis of Size-Controlled Sub-10 nm Copper Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17535-17543.	3.2	16
528	Insights into Reaction Intermediates to Predict Synthetic Pathways for Shape-Controlled Metal Nanocrystals. <i>Journal of the American Chemical Society</i> , 2019, 141, 16312-16322.	6.6	47
529	Optimization of Chemisorption, EDLC, and Redox Capacitance Through Electrodeposition Synthesis of $\text{Fe}_3\text{O}_4/\text{NiO}/\text{rGO}/\text{BN}$ for the Development of Hybrid Supercapacitor. <i>ChemistrySelect</i> , 2019, 4, 589-599.	0.7	5
530	Lipidomics reveals insights on the biological effects of copper oxide nanoparticles in a human colon carcinoma cell line. <i>Molecular Omics</i> , 2019, 15, 30-38.	1.4	31
531	Gas-induced selective re-orientation of Au/Cu nanoparticles on TiO_2 (110). <i>Nanoscale</i> , 2019, 11, 752-761.	2.8	4
532	Selective synthesis of $\text{Cu}_2\text{O}/\text{C}$ and CuO/C catalysts for Pd-free C-C, C-N coupling and oxidation reactions. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 576-589.	3.0	45

#	ARTICLE	IF	CITATIONS
533	Electrochemical glucose sensing characteristics of two-dimensional faceted and non-faceted CuO nanoribbons. <i>CrystEngComm</i> , 2019, 21, 1607-1616.	1.3	36
534	Monitor the Growth and Oxidation of Cu-nanoparticles in PEG after Sputtering. <i>MRS Advances</i> , 2019, 4, 305-309.	0.5	7
535	Constructing surface synergistic effect in Cu-Cu ₂ O hybrids and monolayer H _{1.4} Ti _{1.65} O ₄ ·H ₂ O nanosheets for selective cinnamyl alcohol oxidation to cinnamaldehyde. <i>Journal of Catalysis</i> , 2019, 370, 461-469.	3.1	17
536	Highly Efficient and Selective Co@ZIF-8 Nanocatalyst for Hydrogen Release from Sodium Borohydride Hydrolysis. <i>ChemCatChem</i> , 2019, 11, 1643-1649.	1.8	61
537	Size Distribution Control of Copper Nanoparticles and Oxides: Effect of Wet-Chemical Redox Cycling. <i>Inorganic Chemistry</i> , 2019, 58, 2533-2542.	1.9	8
538	Hydrogen Production from Water Splitting: Fabrication of ZnO Nanorod Decorated Cu NW Heterogeneous Hybrid Structures for Photocatalytic Applications. <i>Journal of Cluster Science</i> , 2019, 30, 449-457.	1.7	11
539	An efficient and recyclable copper nano-catalyst for the selective oxidation of benzene to p-benzoquinone (p-BQ) using H ₂ O ₂ (aq) in CH ₃ CN. <i>Journal of Catalysis</i> , 2019, 370, 332-346.	3.1	17
540	Uniform and dense copper nanoparticles directly modified indium tin oxide electrode for non-enzymatic glucose sensing. <i>Journal of Electroanalytical Chemistry</i> , 2019, 835, 273-280.	1.9	13
541	Stable Colloidal Copper Nanoparticles Functionalized with Siloxane Groups and Their Microbicidal Activity. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 964-978.	1.9	7
542	Synthesis of Silver Flakes and Their Application as Conductive Filler for Low-Curing-Temperature Silver Pastes. <i>Journal of Electronic Materials</i> , 2019, 48, 2745-2753.	1.0	6
543	Design and synthesis of Fe ₃ O ₄ @SiO ₂ /aza-crown ether-Cu(II) as a novel and highly efficient magnetic nanocomposite catalyst for the synthesis of 1,2,3-triazoles, 1-substituted 1H-tetrazoles and 5-substituted 1H-tetrazoles in green solvents. <i>Inorganica Chimica Acta</i> , 2019, 489, 8-18.	1.2	55
544	CuO nanosheet as a recyclable Fenton-like catalyst prepared from simulated Cu(II) waste effluents by alkaline H ₂ O ₂ reaction. <i>Environmental Science: Nano</i> , 2019, 6, 105-114.	2.2	41
545	Coagulation and Dissolution of CuO Nanoparticles in the Presence of Dissolved Organic Matter Under Different pH Values. <i>Sustainability</i> , 2019, 11, 2825.	1.6	17
546	Stirring revealed new functions of ethylenediamine and hydrazine in the morphology control of copper nanowires. <i>Nanoscale</i> , 2019, 11, 11902-11909.	2.8	8
547	Differential impacts of copper oxide nanoparticles and Copper(II) ions on the uptake and accumulation of arsenic in rice (<i>Oryza sativa</i>). <i>Environmental Pollution</i> , 2019, 252, 967-973.	3.7	53
548	Mild synthesis of single-nanosized plasmonic copper nanoparticles and their catalytic reduction of methylene blue. <i>Colloids and Interface Science Communications</i> , 2019, 31, 100187.	2.0	9
549	Direct Synthesis of N-Heterocyclic Carbene-Stabilized Copper Nanoparticles from an N-Heterocyclic Carbene-Borane. <i>Chemistry - A European Journal</i> , 2019, 25, 11481-11485.	1.7	20
550	Copper(II)-facilitated synthesis of substituted thioethers and 5-substituted 1H-tetrazoles: Experimental and theoretical studies. <i>Journal of Organometallic Chemistry</i> , 2019, 896, 194-206.	0.8	14

#	ARTICLE	IF	CITATIONS
551	Antibacterial and cytotoxic effect of honey mediated copper nanoparticles synthesized using ultrasonic assistance. <i>Materials Science and Engineering C</i> , 2019, 104, 109899.	3.8	43
552	Fe ₃ O ₄ @SiO ₂ /EP.EN.EG.Cu as a Highly Efficient and Recoverable Catalytic System for Synthesis of 1,4-Disubstituted 1,2,3-Triazole Derivatives via the Click Reaction. <i>ChemistrySelect</i> , 2019, 4, 7211-7218.	0.7	26
553	Synthesis and Redox Interconversions of Copper-Containing Nanoparticles Stabilized by Poly(N-vinylpyrrolidone). <i>Polymer Science - Series B</i> , 2019, 61, 254-260.	0.3	9
554	Green synthesis of copper oxide nanoparticles using sinapic acid: an underpinning step towards antiangiogenic therapy for breast cancer. <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 633-645.	1.1	40
555	Effect of synthesis media pH and gel separation technique on properties of copper incorporated SBA-15 catalyst. <i>Materials Chemistry and Physics</i> , 2019, 236, 121776.	2.0	8
556	Cu supported on polymeric carbon nitride for selective CO ₂ reduction into CH ₄ : a combined kinetics and thermodynamics investigation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17014-17021.	5.2	90
557	Cu-Doped Carbon Dots as Catalysts for the Chemiluminescence Detection of Glucose. <i>ACS Omega</i> , 2019, 4, 9911-9917.	1.6	64
558	Porous polymers and metallic nanoparticles: A hybrid wedding as a robust method toward efficient supported catalytic systems. <i>Progress in Polymer Science</i> , 2019, 96, 21-42.	11.8	43
559	Evaluation of coating rate and adhesive force for copper deposition on the surface of polypropylene. <i>Journal of Adhesion Science and Technology</i> , 2019, 33, 1438-1452.	1.4	5
560	Synthesis, characterization, toxicological and antibacterial activity evaluation of Cu@ZnO nanocomposites. <i>Ceramics International</i> , 2019, 45, 17476-17488.	2.3	18
561	Plant-Based Nanoparticles Prepared from Proteins and Phospholipids Consisting of a Core-Multilayer-Shell Structure: Fabrication, Stability, and Foamability. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 6574-6584.	2.4	58
562	Interaction of Ionic Liquid with Silver Nanoparticles: Potential Application in Induced Structural Changes of Globular Proteins. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11088-11100.	3.2	26
563	Cross-dehydrogenative coupling reactions between arenes (C-H) and carboxylic acids (O-H): a straightforward and environmentally benign access to <i>ortho</i> -aryl esters. <i>RSC Advances</i> , 2019, 9, 17101-17118.	1.7	33
564	Free-Standing Porous Cu-Based Nanowires as Robust Electrocatalyst for Alkaline Oxygen Evolution Reaction. <i>Catalysis Letters</i> , 2019, 149, 2376-2382.	1.4	0
565	Unlocking the door to highly efficient Ag-based nanoparticles catalysts for NaBH ₄ -assisted nitrophenol reduction. <i>Nano Research</i> , 2019, 12, 2407-2436.	5.8	113
566	In situ laser-induced synthesis of copper-silver microcomposite for enzyme-free d-glucose and l-alanine sensing. <i>Applied Surface Science</i> , 2019, 488, 531-536.	3.1	26
567	Bio-nanobactericides: an emanating class of nanoparticles towards combating multi-drug resistant pathogens. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	5
568	DNA-templated copper nanoclusters as a fluorescent probe for fluoride by using aluminum ions as a bridge. <i>Mikrochimica Acta</i> , 2019, 186, 364.	2.5	20

#	ARTICLE	IF	CITATIONS
569	Gene expression is influenced due to "nano"™ and "ionic"™ copper in pre-formed <i>Pseudomonas aeruginosa</i> biofilms. <i>Environmental Research</i> , 2019, 175, 367-375.	3.7	22
570	Nanocomposites consisting of copper and copper oxide incorporated into MoS ₄ nanostructures for sensitive voltammetric determination of bisphenol A. <i>Mikrochimica Acta</i> , 2019, 186, 337.	2.5	41
571	Confinement of Cu nanoparticles in the nanocages of large pore SBA-16 functionalized with carboxylic acid: enhanced activity and improved durability for 4-nitrophenol reduction. <i>Dalton Transactions</i> , 2019, 48, 8227-8237.	1.6	14
572	Copper-based catalyst from waste printed circuit boards for effective Fenton-like discoloration of Rhodamine B at neutral pH. <i>Chemosphere</i> , 2019, 230, 278-285.	4.2	58
573	Modulating the Electrode-Electrolyte Interface with Cationic Surfactants in Carbon Dioxide Reduction. <i>ACS Catalysis</i> , 2019, 9, 5631-5637.	5.5	122
574	Fe ₃ O ₄ @SiO ₂ @sulfated boric acid as superparamagnetic and recyclable nanocatalyst-assisted, one-pot, pseudo four-component synthesis of 5-amino-2-aryl-3 H-chromeno[4,3,2-de][1,6]naphthyridine-carbonitrile derivatives. <i>Journal of the Chinese Chemical Society</i> , 2019, 66, 1641-1648.	0.8	8
575	Lyotropic liquid crystal directed synthesis of anisotropic copper microparticles and their application in catalysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 575, 237-244.	2.3	10
576	Nanoparticle induced limitless spiral of polyacetylene isomers. <i>Nanotechnology</i> , 2019, 30, 365602.	1.3	3
577	Electrochemical deposition of self-supported bifunctional copper oxide electrocatalyst for methanol oxidation and oxygen evolution reaction. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 76, 515-523.	2.9	57
578	Hydrogen-Induced Clustering of Metal Atoms in Oxygenated Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11662-11670.	1.5	7
579	The fabrications and characterizations of antibacterial PVA/Cu nanofibers composite membranes by synthesis of Cu nanoparticles from solution reduction, nanofibers reduction and immersion methods. <i>Materials Research Express</i> , 2019, 6, 075051.	0.8	19
580	Synthesis of Metallic and Metal Oxide Particles. <i>Nanoscience and Technology</i> , 2019, , 3-27.	1.5	3
581	An Fe ₃ O ₄ @SiO ₂ /Schiff base/Cu(II) complex as an efficient recyclable magnetic nanocatalyst for selective mono <i>N</i> -arylation of primary <i>O</i> -alkyl thiocarbamates and primary <i>O</i> -alkyl carbamates with aryl halides and arylboronic acids. <i>New Journal of Chemistry</i> , 2019, 43, 8557-8565.	1.4	38
582	Review "On Atomic Layer Deposition: Current Progress and Future Challenges. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, N55-N78.	0.9	58
583	Synthesis of Fe ₃ O ₄ -DOPA-Cu Magnetically Separable Nanocatalyst: A Versatile and Robust Catalyst for an Array of Sustainable Multicomponent Reactions under Microwave Irradiation. <i>Catalysis Letters</i> , 2019, 149, 2180-2194.	1.4	29
584	Biomedical inorganic nanoparticles: preparation, properties, and perspectives. , 2019, , 1-46.		2
586	Fabrication of Mg(OH) ₂ thin films by electrochemical deposition with Cu catalyst. <i>Thin Solid Films</i> , 2019, 681, 41-46.	0.8	14
587	Role of Keto-Enol Tautomerization in the Copper-Catalyzed Hydrogenation of Ketones. <i>ACS Catalysis</i> , 2019, 9, 3831-3839.	5.5	17

#	ARTICLE	IF	CITATIONS
588	Efficient Click-Cu ₂ Dendrimer-Supported Synergistic Bimetallic Nanocatalysis for Hydrogen Evolution by Sodium Borohydride Hydrolysis. <i>ChemCatChem</i> , 2019, 11, 2341-2349.	1.8	26
589	Two-dimensional MOF-derived nanoporous Cu/Cu ₂ O networks as catalytic membrane reactor for the continuous reduction of p-nitrophenol. <i>Journal of Membrane Science</i> , 2019, 582, 30-36.	4.1	45
590	Ultras-small Cu ₂ -xS nanodots as photothermal-enhanced Fenton nanocatalysts for synergistic tumor therapy at NIR-II biowindow. <i>Biomaterials</i> , 2019, 206, 101-114.	5.7	223
591	Vanadium Dioxide Nanocoating Induces Tumor Cell Death through Mitochondrial Electron Transport Chain Interruption. <i>Global Challenges</i> , 2019, 3, 1800058.	1.8	33
592	Highly Efficient and Non-Precious Metal for the Li-SOCl ₂ Battery Using Nitrogen Doped Carbon Supported Cu Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2019, 166, A641-A648.	1.3	7
593	CuI@Al ₂ O ₃ catalyzed synthesis of 2-aminonicotinonitrile derivatives under solvent free condition. <i>Tetrahedron Letters</i> , 2019, 60, 1153-1157.	0.7	7
594	Metal or metal-containing nanoparticle@MOF nanocomposites as a promising type of photocatalyst. <i>Coordination Chemistry Reviews</i> , 2019, 388, 63-78.	9.5	235
595	Biofabrication, characterization and evaluation of photocatalytic dye degradation efficiency of <i>Syzygium alternifolium</i> leaf extract mediated copper oxide nanoparticles. <i>Materials Research Express</i> , 2019, 6, 065034.	0.8	24
596	Easy, Quick, and Reproducible Sonochemical Synthesis of CuO Nanoparticles. <i>Materials</i> , 2019, 12, 804.	1.3	62
597	Promoting solar-to-hydrogen evolution on Schottky interface with mesoporous TiO ₂ -Cu hybrid nanostructures. <i>Journal of Colloid and Interface Science</i> , 2019, 545, 116-127.	5.0	58
598	Amorphous CuO on Carbon Nanofiber as Recyclable Heterogeneous Catalyst for N-Arylation Reactions. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 256-260.	1.3	4
599	Facile and green synthesis of copper nanoparticles loaded on the amorphous carbon nitride for the oxidation of cyclohexane. <i>Chemical Engineering Journal</i> , 2019, 370, 1310-1321.	6.6	76
600	One-Dimensional Metal Nanostructures: From Colloidal Syntheses to Applications. <i>Chemical Reviews</i> , 2019, 119, 8972-9073.	23.0	240
601	Flash-Calcined CuZnAl-LDH as High-Activity LT-WGS Catalyst. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1792-1798.	1.0	9
602	Applications of copper nanoparticles for colorimetric detection of dithiocarbamate pesticides. <i>Journal of Nanostructure in Chemistry</i> , 2019, 9, 77-93.	5.3	39
603	Simple strategy synthesizing stable CuZnO/SiO ₂ methanol synthesis catalyst. <i>Journal of Catalysis</i> , 2019, 372, 163-173.	3.1	34
604	Cu ₉₇ P ₃ -O _N /NPC as a bifunctional electrocatalyst for rechargeable zinc-air battery. <i>Journal of Power Sources</i> , 2019, 421, 109-115.	4.0	21
605	Ascorbic acid based controlled growth of various Cu and Cu ₂ O nanostructures. <i>Materials Research Express</i> , 2019, 6, 065033.	0.8	19

#	ARTICLE	IF	CITATIONS
606	Sulfonyl-bridged (copper-immobilized nickel ferrite) with activated montmorillonite, [(NiFe ₂ O ₄ @Cu)SO ₂ (MMT)]: a new class of magnetically separable clay nanocomposite systems towards Hantzsch synthesis of coumarin-based 1,4-dihydropyridines. RSC Advances, 2019, 9, 8002-8015.	1.7	21
607	Mutual interplay of ZnO micro- and nanowires and methylene blue during cyclic photocatalysis process. Journal of Environmental Chemical Engineering, 2019, 7, 103016.	3.3	92
608	Electrochemical Detection of H ₂ O ₂ Using Copper Oxide-Reduced Graphene Oxide Heterostructure. Journal of Nanoscience and Nanotechnology, 2019, 19, 5295-5302.	0.9	13
609	Facile Synthesis of Copper Containing Ordered Mesoporous Polymers via Aqueous Coordination Self-Assembly for Aerobic Oxidation of Alcohols. Industrial & Engineering Chemistry Research, 2019, 58, 6438-6445.	1.8	9
610	Radiation-Chemical Reduction of Copper Ions in Nanoporous Matrices Based on High-Density Polyethylene. Russian Journal of General Chemistry, 2019, 89, 111-116.	0.3	0
611	Cu/Cu ₂ O Nanoparticles Supported on a Phenol-Pyridyl COF as a Heterogeneous Catalyst for the Synthesis of Unsymmetrical Diynes via Glaser-Hay Coupling. ACS Applied Materials & Interfaces, 2019, 11, 15670-15679.	4.0	77
612	Plasma jet based <i>in situ</i> reduction of copper oxide in direct write printing. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2019, 37, .	0.6	14
613	Component controlled synthesis of bimetallic PdCu nanoparticles supported on reduced graphene oxide for dehydrogenation of dodecahydro-N-ethylcarbazole. Applied Catalysis B: Environmental, 2019, 251, 261-272.	10.8	66
614	Reactive Oxygen Species (ROS)-Based Nanomedicine. Chemical Reviews, 2019, 119, 4881-4985.	23.0	1,519
615	On the nature of ion-stabilized cytosine pairs in DNA motifs: The importance of charge transfer processes. International Journal of Quantum Chemistry, 2019, 119, e25933.	1.0	10
616	Atomically Defined Monocarborane Copper(I) Acetylides with Structural and Luminescence Properties Tuned by Ligand Sterics. Chemistry - A European Journal, 2019, 25, 8754-8759.	1.7	18
617	Multitribe evolutionary search for stable Cu-Pd-Ag nanoparticles using neural network models. Physical Chemistry Chemical Physics, 2019, 21, 8729-8742.	1.3	25
618	Stabilized Cu/Cu ₂ O nanoparticles on rGO as an efficient heterogeneous catalyst for Glaser homo-coupling. Catalysis Communications, 2019, 125, 98-102.	1.6	21
619	Anomalously Low Barrier for Water Dimer Diffusion on Cu(111). Nano Letters, 2019, 19, 3049-3056.	4.5	20
620	Experimental and quantum chemical study on nano-copper immobilized on magnetic graphitic carbon nitride core shell particles; a reusable heterogeneous catalyst toward reduction of nitro arenes. Journal of Molecular Structure, 2019, 1185, 38-49.	1.8	12
621	Enzyme mimetic activities of spinel substituted nanoferrites (MFe ₂ O ₄): A review of synthesis, mechanism and potential applications. Materials Science and Engineering C, 2019, 99, 1424-1447.	3.8	62
622	Fabrication of Ultrathin 2D Cu-BDC Nanosheets and the Derived Integrated MOF Nanocomposites. Advanced Functional Materials, 2019, 29, 1806720.	7.8	123
623	Nanostructured Metal Catalysts for Selective Hydrogenation and Oxidation of Cellulosic Biomass to Chemicals. Chemical Record, 2019, 19, 1952-1994.	2.9	10

#	ARTICLE	IF	CITATIONS
624	Efficient Plasmonic Au/CdSe Nanodumbbell for Photoelectrochemical Hydrogen Generation beyond Visible Region. <i>Advanced Energy Materials</i> , 2019, 9, 1803889.	10.2	85
625	Recent Developments in the Biosynthesis of Cu-Based Recyclable Nanocatalysts Using Plant Extracts and their Application in the Chemical Reactions. <i>Chemical Record</i> , 2019, 19, 601-643.	2.9	51
626	Metal-organic frameworks tailor the properties of aluminum nanocrystals. <i>Science Advances</i> , 2019, 5, eaav5340.	4.7	74
627	Green Synthesis of Metal, Metal Oxide Nanoparticles, and Their Various Applications. , 2019, , 2281-2325.		7
628	Impact of microalgae culture conditions over the capacity of copper nanoparticle biosynthesis. <i>Journal of Applied Phycology</i> , 2019, 31, 2437-2447.	1.5	17
629	Facile synthesis of highly porous CuO nanoplates (NPs) for ultrasensitive and highly selective nitrogen dioxide/nitrite sensing. <i>RSC Advances</i> , 2019, 9, 5742-5747.	1.7	19
630	Application of Cu(Hdmg) 2 as a simple and cost-effective catalyst for the convenient one-pot reductive acetylation of aromatic nitro compounds. <i>Journal of the Chinese Chemical Society</i> , 2019, 66, 928-933.	0.8	16
631	Biosynthesis of Copper Nanoparticles Supported on Zeolite Y and its Application in Catalytic C-N Cross Coupling Reactions between Amines and Aryl halides. <i>ChemistrySelect</i> , 2019, 4, 1964-1970.	0.7	9
632	Synthesis and Characterization of Oleic Acid-Capped Metallic Copper Nanoparticle via Chemical Reduction Method. <i>Journal of the Institution of Engineers (India): Series E</i> , 2019, 100, 101-109.	0.5	0
633	Sonochemical assisted thermal decomposition method for green synthesis of CuCo2O4/CuO ceramic nanocomposite using <i>Dactylopius Coccus</i> for anti-tumor investigations. <i>Journal of Alloys and Compounds</i> , 2019, 788, 944-953.	2.8	27
634	Framework Cu-doped boron nitride nanobelts with enhanced internal electric field for effective Fenton-like removal of organic pollutants. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6946-6956.	5.2	54
635	<i>Gnidia glauca</i> - and <i>Plumbago zeylanica</i> -Mediated Synthesis of Novel Copper Nanoparticles as Promising Antidiabetic Agents. <i>Advances in Pharmacological Sciences</i> , 2019, 2019, 1-11.	3.7	41
636	Synthesis and Biomedical Applications of Copper Oxide Nanoparticles: An Expanding Horizon. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1170-1188.	2.6	253
637	Fabrication of hybrids of zeolitic imidazolate frameworks supported zero-valent copper nanoparticles as a non-noble catalyst with high efficiency. <i>Micro and Nano Letters</i> , 2019, 14, 163-167.	0.6	4
638	Decomposition of Copper Formate Clusters: Insight into Elementary Steps of Calcination and Carbon Dioxide Activation. <i>ChemistryOpen</i> , 2019, 8, 1453-1459.	0.9	11
639	Electrospun Cu-Deposited Flexible Fibers as an Efficient Oxygen Evolution Reaction Electrocatalyst. <i>ChemPhysChem</i> , 2019, 20, 2899-2899.	1.0	2
640	Quaternized POSS modified rGO-supported Pd nanoparticles as a highly efficient catalyst for reduction and Suzuki coupling reactions. <i>New Journal of Chemistry</i> , 2019, 43, 18601-18610.	1.4	10
641	The azide-alkyne cycloaddition catalysed by transition metal oxide nanoparticles. <i>New Journal of Chemistry</i> , 2019, 43, 18049-18061.	1.4	3

#	ARTICLE	IF	CITATIONS
642	Thermodynamic modeling of copper nanoparticles oxidation. AIP Conference Proceedings, 2019, , .	0.3	3
643	The effect of substrate temperature on the physical properties of copper oxide films. Journal of Physics: Conference Series, 2019, 1294, 022009.	0.3	8
644	A dual-responsive colorimetric probe for the detection of Cu ²⁺ and Ni ²⁺ species in real water samples and human serum. Analyst, The, 2019, 144, 6962-6967.	1.7	18
645	Atomic Layer Deposition ZnO Over-Coated Cu/SiO ₂ Catalysts for Methanol Synthesis from CO ₂ Hydrogenation. Catalysts, 2019, 9, 922.	1.6	14
646	Self-triggered click reaction in an Alzheimer's disease model: <i>in situ</i> bifunctional drug synthesis catalyzed by neurotoxic copper accumulated in amyloid- β plaques. Chemical Science, 2019, 10, 10343-10350.	3.7	44
647	CuO nanoparticle penetration through intact and damaged human skin. New Journal of Chemistry, 2019, 43, 17033-17039.	1.4	18
648	Applicability of HDPC-supported Cu nanoparticles composite synthesized from anaerobically digested wheat straw for octocrylene degradation in aqueous solutions. Chemical Engineering Journal, 2019, 355, 650-660.	6.6	43
649	Coordinative integration of copper (II) and iron (II) phthalocyanine into amidoximated PAN fiber for enhanced photocatalytic activity under visible light irradiation. Journal of Colloid and Interface Science, 2019, 533, 333-343.	5.0	29
650	Design of Cu nanoaggregates composed of ultra-small Cu nanoparticles for Cu-Cu thermocompression bonding. Journal of Alloys and Compounds, 2019, 772, 793-800.	2.8	66
651	Origin of strong and narrow localized surface plasmon resonance of copper nanocubes. Nano Research, 2019, 12, 63-68.	5.8	64
652	Plasmonic noble metal@metal oxide core-shell nanoparticles for dye-sensitized solar cell applications. Sustainable Energy and Fuels, 2019, 3, 63-91.	2.5	48
653	New arylselanylpyrazole-copper catalysts: Highly efficient catalytic system for C Se and C S coupling reactions. Catalysis Communications, 2019, 121, 19-26.	1.6	13
654	Cu ²⁺ -loaded cellulose micro-beads applied to the direct patterning of metallic surfaces using a fast and convenient process. Carbohydrate Polymers, 2019, 207, 492-501.	5.1	1
655	Experimental and theoretical investigations on the adherent behaviors of high viscosity liquid: The effect of surface topography. Fluid Phase Equilibria, 2019, 486, 11-20.	1.4	2
656	Affinity Directed Surface Functionalization of Two Different Metal Nanoparticles by a Natural Ionophore: Probing and Removal of Hg ²⁺ and Al ³⁺ Ions from Aqueous Solutions. Inorganic Chemistry, 2019, 58, 1674-1683.	1.9	3
657	Boosting the Efficiency of Photoelectrolysis by the Addition of Non-Noble Plasmonic Metals: Al & Cu. Nanomaterials, 2019, 9, 1.	1.9	376
658	The nanotechnology among US: are metal and metal oxides nanoparticles a nano or mega risk for soil microbial communities?. Critical Reviews in Biotechnology, 2019, 39, 157-172.	5.1	55
659	Odorless, convenient and one-pot synthesis of thioethers from organic halides and thiourea. Journal of Sulfur Chemistry, 2019, 40, 209-231.	1.0	13

#	ARTICLE	IF	CITATIONS
660	Investigation of Ti/CuO interface by X-ray photoelectron spectroscopy and atomic force microscopy. <i>Surface and Interface Analysis</i> , 2019, 51, 246-253.	0.8	2
661	Cu ₂ O modified g-C ₃ N ₄ as an effective catalyst for the synthesis of propargylamines: experimental, quantum mechanical mechanistic and kinetic study. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019, 126, 265-282.	0.8	11
662	Anisotropic Cu@Cu-BTC core-shell nanostructure for memory device. <i>Chinese Chemical Letters</i> , 2019, 30, 1093-1096.	4.8	3
663	Self-assembled Cu-Ni bimetal oxide 3D in-plane epitaxial structures for highly efficient oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 56-62.	10.8	62
664	Laser-assisted synthesis of Fe-Cu oxide nanocrystals. <i>Applied Surface Science</i> , 2019, 469, 1007-1015.	3.1	11
665	Fabricating Cu, Cu ₂ O and hybrid Cu-Cu ₂ O nanoparticles in carbon matrix and exploring catalytic activity of oxygen and hydrogen evolution and green A ³⁺ -coupling reaction. <i>Materials Research Express</i> , 2019, 6, 025518.	0.8	9
666	Surface-Templated Assembly of Molecular Methanol on the Thin Film α -Cu(111) Surface Oxide. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2911-2921.	1.5	9
667	Preparation and Study of the Antibacterial Applications and Oxidative Stress Induction of Copper Maleamate-Functionalized Mesoporous Silica Nanoparticles. <i>Pharmaceutics</i> , 2019, 11, 30.	2.0	39
668	Controlled Self-Assembly of Mesoporous CuO Networks Guided by Organic Interlinking. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800453.	1.2	1
669	Polynuclear Aminohydroximate Metallamacrocyclic Cu(II)-Ce(III) Complexes: A Facile Route to Intricate Nanostructures of Copper and Cerium Oxides. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1002-1010.	1.0	6
670	1D hollow MFe ₂ O ₄ (M ²⁺ = Cu, Co, Ni) fibers by Solution Blow Spinning for oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2019, 540, 59-65.	5.0	99
671	High efficient catalytic degradation of tetracycline and ibuprofen using visible light driven novel Cu/Bi ₂ Ti ₂ O ₇ /rGO nanocomposite: Kinetics, intermediates and mechanism. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 512-528.	2.9	72
672	On chelating surfactants: Molecular perspectives and application prospects. <i>Journal of Molecular Liquids</i> , 2019, 278, 688-705.	2.3	46
673	Synthesis of Cu ₂ O/CuO Nanocrystals and Their Application to H ₂ S Sensing. <i>Sensors</i> , 2019, 19, 211.	2.1	60
674	Bimetallic AuCu nanoclusters-based florescent chemosensor for sensitive detection of Fe ³⁺ in environmental and biological systems. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 209, 202-208.	2.0	31
675	Electrocatalytic methanol oxidation over Cu, Ni and bimetallic Cu-Ni nanoparticles supported on graphitic carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 272-283.	10.8	235
676	Effect of oxide defect on photocatalytic properties of MSnO ₃ (M ²⁺ = Ca, Sr, and Ba) photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 428-437.	10.8	35
677	Polyhedral Cu ₂ O Crystals for Diverse Aryl Alkyne Hydroboration Reactions. <i>Chemistry - A European Journal</i> , 2019, 25, 1300-1303.	1.7	23

#	ARTICLE	IF	CITATIONS
678	Copper complex with N,O- architecture grafted graphene oxide nanosheet as a heterogeneous catalyst for Suzuki cross coupling reaction. Journal of the Taiwan Institute of Chemical Engineers, 2019, 95, 643-651.	2.7	21
679	A facile green synthesis of silver nanoparticles: An investigation on catalytic hydroxylation studies for efficient conversion of aryl boronic acids to phenol. Journal of Saudi Chemical Society, 2019, 23, 711-717.	2.4	7
680	Chiral Molecule-mediated Porous Cu _x O Nanoparticle Clusters with Antioxidation Activity for Ameliorating Parkinson's Disease. Journal of the American Chemical Society, 2019, 141, 1091-1099.	6.6	264
681	Copper nanoparticles synthesis in hybrid mesoporous thin films: Controlling oxidation state and catalytic performance through pore chemistry. Applied Surface Science, 2019, 471, 862-868.	3.1	11
682	Toxicological evaluation of metal oxide nanoparticles and mixed exposures at low doses using zebra fish and THP1 cell line. Environmental Toxicology, 2019, 34, 375-387.	2.1	25
683	Metal-Free Boron Nitride Nanoribbon Catalysts for Electrochemical CO ₂ Reduction: Combining High Activity and Selectivity. ACS Applied Materials & Interfaces, 2019, 11, 906-915.	4.0	66
684	Reduction of Nitro Compounds Using 3d-Non-Noble Metal Catalysts. Chemical Reviews, 2019, 119, 2611-2680.	23.0	525
685	Operando Structure Determination of Cu and Zn on Supported MgO/SiO ₂ Catalysts during Ethanol Conversion to 1,3-Butadiene. ACS Catalysis, 2019, 9, 269-285.	5.5	38
686	Design of plasmonic CuCo bimetal as a nonsemiconductor photocatalyst for synchronized hydrogen evolution and storage. Applied Catalysis B: Environmental, 2019, 242, 389-396.	10.8	56
687	ZnO-TiO ₂ nanocomposites synthesized by wet-chemical route: Study of their structural and optical properties. Materials Chemistry and Physics, 2019, 222, 230-245.	2.0	27
688	Effects of Nanoparticles in Plants. , 2019, , 65-87.		21
689	Carbon-coated Cu-TiO ₂ nanocomposite with enhanced photostability and photocatalytic activity. Applied Surface Science, 2019, 466, 254-261.	3.1	54
690	Effect of rare earth elements on low temperature magnetic properties of Ni and Co-ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2019, 473, 228-235.	1.0	68
691	Co-synthesis of CuO-ZnO nanoflowers by low voltage liquid plasma discharge with brass electrode. Journal of Alloys and Compounds, 2019, 773, 762-769.	2.8	19
692	A Copper(II) complex of a new hydrazone: A solid-state single source precursor for the preparation of both Cu and CuO nanoparticles. Journal of Molecular Structure, 2019, 1177, 469-475.	1.8	13
693	Interaction of miscible solutions and superhydrophobic surfaces. Surface Engineering, 2019, 35, 387-393.	1.1	6
694	Nanoparticles: Properties, applications and toxicities. Arabian Journal of Chemistry, 2019, 12, 908-931.	2.3	3,638
695	Synthesis by the sol-gel method and characterization of Pt-promoted CuO/TiO ₂ -ZrO ₂ catalysts for decomposition of 2-propanol. Catalysis Today, 2020, 349, 228-234.	2.2	14

#	ARTICLE	IF	CITATIONS
696	State of the Art and Prospects in Metal-Organic Framework (MOF)-Based and MOF-Derived Nanocatalysis. <i>Chemical Reviews</i> , 2020, 120, 1438-1511.	23.0	1,505
697	Microwave-assisted catalytic oxidation of methomyl pesticide by Cu/Cu ₂ O/CuO hybrid nanoparticles as a Fenton-like source. <i>International Journal of Environmental Science and Technology</i> , 2020, 17, 161-174.	1.8	25
698	Methanol decomposition over bimetallic Cu-M catalysts supported on nanoceria: Effect of the second metal on the catalytic properties. <i>Catalysis Today</i> , 2020, 356, 440-455.	2.2	18
699	The rise of conductive copper inks: challenges and perspectives. <i>Applied Materials Today</i> , 2020, 18, 100451.	2.3	75
700	Synergistic enhancement of antibacterial activity of Cu:C nanocomposites through plasma induced microstructural engineering. <i>Applied Surface Science</i> , 2020, 500, 143996.	3.1	6
701	Recent development of covalent organic frameworks (COFs): synthesis and catalytic (organic-electro-photo) applications. <i>Materials Horizons</i> , 2020, 7, 411-454.	6.4	291
702	Improved performance of solution processed organic solar cells with an additive layer of sol-gel synthesized ZnO/CuO core/shell nanoparticles. <i>Journal of Alloys and Compounds</i> , 2020, 814, 152292.	2.8	58
703	Enhanced As(III) removal from aqueous solutions by recyclable Cu@MNM composite membranes via synergistic oxidation and absorption. <i>Water Research</i> , 2020, 168, 115147.	5.3	53
704	Novel strategy of electrochemical analysis of DNA bases with enhanced performance based on copper-nickel nanosphere decorated N,B-doped reduced graphene oxide. <i>Biosensors and Bioelectronics</i> , 2020, 147, 111735.	5.3	23
705	Mixed ligand Cu(II) complexes of an unsymmetrical Schiff base ligand and N-donor heterocyclic co-ligands: Investigation of the effect of co-ligand on the antibacterial properties. <i>Inorganica Chimica Acta</i> , 2020, 499, 119185.	1.2	21
706	Small and Narrowly Distributed Copper Nanoparticles Supported on Carbon Prepared by Surface Organometallic Chemistry for Selective Hydrogenation and CO ₂ Electroconversion Processes. <i>ChemCatChem</i> , 2020, 12, 305-313.	1.8	9
707	Design of Nanoparticle Systems by Controllable Assembly and Temporal/Spatial Regulation. <i>Advanced Functional Materials</i> , 2020, 30, 1903351.	7.8	11
708	Palladium Nanocatalysts Encapsulated on Porous Silica @ Magnetic Carbon-Coated Cobalt Nanoparticles for Sustainable Hydrogenation of Nitroarenes, Alkenes and Alkynes.. <i>ChemCatChem</i> , 2020, 12, 569-575.	1.8	20
709	Facile and universal method for the synthesis of metal nanoparticles supported onto carbon foams. <i>Cellulose</i> , 2020, 27, 263-271.	2.4	2
710	Crystallization patterns of an aqueous dihydrate cupric chloride solution in the presence of different amounts of Bovine Serum Albumin. <i>Journal of Crystal Growth</i> , 2020, 529, 125272.	0.7	2
711	$\text{Cu} \rightarrow \text{H} \rightarrow \text{Cu}$		

#	ARTICLE	IF	CITATIONS
714	Reduction of the Cytotoxicity of Copper (II) Oxide Nanoparticles by Coating with a Surface-Binding Peptide. <i>Applied Biochemistry and Biotechnology</i> , 2020, 190, 645-659.	1.4	8
715	Laser-induced plasmonic heating in copper nanowire fabric as a photothermal catalytic reactor. <i>Chemical Engineering Journal</i> , 2020, 379, 122285.	6.6	26
716	Comparison of the In Vitro Antifungal and Anti-fumonigenic Activities of Copper and Silver Nanoparticles Against <i>Fusarium verticillioides</i> . <i>Journal of Cluster Science</i> , 2020, 31, 213-220.	1.7	7
717	In-vitro catalytic, antimicrobial and antioxidant activities of bioengineered copper quantum dots using <i>Mangifera indica</i> (L.) leaf extract. <i>Materials Chemistry and Physics</i> , 2020, 239, 122052.	2.0	39
718	Computer modeling of semiconductor nanotubes for water splitting. <i>Current Opinion in Electrochemistry</i> , 2020, 19, 88-95.	2.5	3
719	New insights into mechanisms on electrochemical N ₂ reduction reaction driven by efficient zero-valence Cu nanoparticles. <i>Journal of Power Sources</i> , 2020, 448, 227417.	4.0	22
720	Artificial nanozyme based on platinum nanoparticles anchored metal-organic frameworks with enhanced electrocatalytic activity for detection of telomeres activity. <i>Biosensors and Bioelectronics</i> , 2020, 149, 111838.	5.3	54
721	Facile Green synthesis and characterization of copper nanoparticles by aconitic acid for catalytic reduction of nitrophenols. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103517.	3.3	30
722	Inorganic nanoparticles with enzyme-mimetic activities for biomedical applications. <i>Coordination Chemistry Reviews</i> , 2020, 403, 213092.	9.5	110
723	Tuning the composition and morphology of carbon nanotube-copper interface. <i>Carbon</i> , 2020, 157, 583-593.	5.4	21
724	Synthesis of 3-ethynyl-3-hydroxy-2-oxindoles and 3-hydroxy-3-(indol-3-yl) indolin-2-ones using CuWO ₄ nanoparticles as recyclable heterogeneous catalyst in aqueous medium. <i>Catalysis Communications</i> , 2020, 135, 105874.	1.6	8
725	Chitosan-pluronic based Cu nanocomposite hydrogels for prototype antimicrobial applications. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 825-832.	3.6	58
726	Single precursor sonochemical synthesis of mesoporous hexagonal-shape zero-valent copper for effective nitrate reduction. <i>Chemical Engineering Journal</i> , 2020, 384, 123359.	6.6	12
727	The immobilized Cu nanoparticles on magnetic montmorillonite (MMT@Fe ₃ O ₄ @Cu): As an efficient and reusable nanocatalyst for reduction and reductive-acetylation of nitroarenes with NaBH ₄ . <i>Polyhedron</i> , 2020, 175, 114201.	1.0	33
728	Synthesis, anti-proliferative activity, computational studies of tetrazole cellulose utilizing different homogenous catalyst. <i>Carbohydrate Polymers</i> , 2020, 229, 115537.	5.1	56
729	Applications of Plasmon-Enhanced Nanocatalysis to Organic Transformations. <i>Chemical Reviews</i> , 2020, 120, 986-1041.	23.0	333
730	Microwave-Assisted synthesis of Anisotropic copper-silver nanoparticles. <i>Materials Chemistry and Physics</i> , 2020, 241, 122348.	2.0	14
731	Facile and rapid decoration of graphene oxide with copper double salt, oxides and metallic copper as catalysts in oxidation and coupling reactions. <i>Carbon</i> , 2020, 161, 7-16.	5.4	23

#	ARTICLE	IF	CITATIONS
732	Copper ion modified graphitic C ₃ N ₄ nanosheets enhanced luminol-H ₂ O ₂ chemiluminescence system: Toward highly selective and sensitive bioassay of H ₂ S in human plasma. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 230, 118040.	2.0	17
733	Fabrication of CuS/CuO nanowire heterostructures on copper mesh with improved visible light photocatalytic properties. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 140, 109355.	1.9	26
734	Synthesis of biologically active copper oxide nanoparticles as promising novel antibacterial-antibiofilm agents. <i>Preparative Biochemistry and Biotechnology</i> , 2020, 50, 538-548.	1.0	28
735	Microstructure, mechanical properties and magnetic properties of FeCoNiCuTiSix high-entropy alloys. <i>Science China Technological Sciences</i> , 2020, 63, 459-466.	2.0	14
736	Galactoxyloglucan Endowed Biogenic Nanoimmunobiotics Arrests Microbial Growth and Elicits Antitumor Immunity. <i>ACS Applied Bio Materials</i> , 2020, 3, 801-814.	2.3	7
737	Tailorable synthesis of heterogeneous enzyme-copper nanobiohybrids and their application in the selective oxidation of benzene to phenol. <i>Catalysis Science and Technology</i> , 2020, 10, 196-206.	2.1	25
738	Atomically dispersed asymmetric Cu-B pair on 2D carbon nitride synergistically boosts the conversion of CO into C ₂ products. <i>Journal of Materials Chemistry A</i> , 2020, 8, 599-606.	5.2	58
739	The Calculated Dielectric Function and Optical Properties of Bimetallic Alloy Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2721-2727.	1.5	20
740	Electrochemical Performance Evaluation of CuO@Cu ₂ O Nanowires Array on Cu Foam as Bifunctional Electrocatalyst for Efficient Water Splitting. <i>Chinese Journal of Analytical Chemistry</i> , 2020, 48, e20001-e20012.	0.9	35
741	High performance of supported Cu-based catalysts modulated via phosphamide coordination in acetylene hydrochlorination. <i>Applied Catalysis A: General</i> , 2020, 591, 117408.	2.2	32
742	Controllable synthesis of Ir(Rh)-Sn/SiO ₂ bimetallic catalysts via surface organometallic chemistry for the production of ethanol from hydrogenolysis of ethyl acetate. <i>Catalysis Science and Technology</i> , 2020, 10, 1086-1095.	2.1	4
743	Organic-inorganic hybrids for CO ₂ sensing, separation and conversion. <i>Nanoscale Horizons</i> , 2020, 5, 431-453.	4.1	25
744	Optical properties of symmetry-breaking tetrahedral nanoparticles. <i>Nanoscale</i> , 2020, 12, 832-842.	2.8	13
745	Theoretical and experimental characterization of Cu-doped amorphous silicate glass. <i>Journal of Molecular Structure</i> , 2020, 1205, 127629.	1.8	4
746	Microflowers Comprised of Cu/Cu _x O/NC Nanosheets as Electrocatalysts and Horseradish Peroxidase Mimics. <i>ACS Applied Nano Materials</i> , 2020, 3, 617-623.	2.4	30
747	Phase-transformation of hexagonal Cu ₂ S microplates to nanoparticle-confined Cu ₂ O microplates at low temperatures and their electro-catalytic property for methanol oxidation. <i>Chemical Physics</i> , 2020, 530, 110602.	0.9	1
748	Pore size effect of graphyne supports on CO ₂ electrocatalytic activity of Cu single atoms. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1181-1186.	1.3	37
749	Optimization of Cu catalysts for nitrophenol reduction, click reaction and alkyne coupling. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 939-945.	3.0	52

#	ARTICLE	IF	CITATIONS
750	Theoretical calculations for localized surface plasmon resonance effects of Cu/TiO ₂ nanosphere: Generation, modulation, and application in photocatalysis. <i>Solar Energy Materials and Solar Cells</i> , 2020, 208, 110385.	3.0	52
751	A New One-Pot Sequential Reduction-Deposition Method for the synthesis of Silica-supported NiPt and CuPt Bimetallic Catalysts. <i>Applied Catalysis A: General</i> , 2020, 591, 117371.	2.2	14
752	Effects of poly(vinylpyrrolidone) protected platinum nanoparticles on seed germination and growth performance of <i>Pisum sativum</i> . <i>Nano Structures Nano Objects</i> , 2020, 21, 100408.	1.9	33
753	Relative humidity sensing properties of doped polyaniline-encased multiwall carbon nanotubes: wearable and flexible human respiration monitoring application. <i>Journal of Materials Science</i> , 2020, 55, 3884-3901.	1.7	37
754	Re-utilization of spent Cu ²⁺ -immobilized MgMn-layered double hydroxide for efficient sulfamethoxazole degradation: Performance and metals synergy. <i>Chemical Engineering Journal</i> , 2020, 392, 123709.	6.6	28
755	The immobilized copper species on nickel ferrite (NiFe ₂ O ₄ @Cu): a magnetically reusable nanocatalyst for one-pot and quick reductive acetylation of nitroarenes to N-arylacetamides. <i>Journal of the Iranian Chemical Society</i> , 2020, 17, 859-870.	1.2	4
756	In Situ Generation and Stabilization of Accessible Cu/Cu ₂ O Heterojunctions inside Organic Frameworks for Highly Efficient Catalysis. <i>Angewandte Chemie</i> , 2020, 132, 1941-1947.	1.6	19
757	In Situ Generation and Stabilization of Accessible Cu/Cu ₂ O Heterojunctions inside Organic Frameworks for Highly Efficient Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1925-1931.	7.2	81
758	Graphene oxide-catalyzed two-step continuous-flow conversion of aryl amine to unsymmetrical thioether. <i>Journal of Flow Chemistry</i> , 2020, 10, 389-396.	1.2	2
759	Sublethal effects of waterborne copper and copper nanoparticles on the freshwater Neotropical teleost <i>Prochilodus lineatus</i> : A comparative approach. <i>Science of the Total Environment</i> , 2020, 704, 135332.	3.9	20
760	Boron-promoted Cu/ZrO ₂ catalysts for hydrogenation of sec-butyl acetate: Structural evolution and catalytic performance. <i>Molecular Catalysis</i> , 2020, 482, 110698.	1.0	2
761	Copper complex supported on hollow porous nanosphere frameworks with improved catalytic activity for epoxidation of olefins. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109890.	2.2	5
762	Abatement of the Stimulatory Effect of Copper Nanoparticles Supported on Titania on Ovarian Cell Functions by Some Plants and Phytochemicals. <i>Nanomaterials</i> , 2020, 10, 1859.	1.9	9
763	1,2,3- Triazoles: general and key synthetic strategies. <i>Arkivoc</i> , 2020, 2020, 219-271.	0.3	12
764	Borophosphate glass as an active media for CuO nanoparticle growth: an efficient catalyst for selenylation of oxadiazoles and application in redox reactions. <i>Scientific Reports</i> , 2020, 10, 15233.	1.6	26
765	Magnetic Iron Oxide Nanoparticle (IONP) Synthesis to Applications: Present and Future. <i>Materials</i> , 2020, 13, 4644.	1.3	154
766	Photocatalytic Activity of Copper(II) Oxide Nanoparticles Synthesized Using <i>Serratula Coronata</i> L. Extract. <i>Petroleum Chemistry</i> , 2020, 60, 1141-1147.	0.4	6
767	Molten Salt Treated Cu Foam Catalyst for Selective Electrochemical CO ₂ Reduction Reaction. <i>ChemistrySelect</i> , 2020, 5, 11927-11933.	0.7	6

#	ARTICLE	IF	CITATIONS
768	Comparative Study of the Effect of Water on Cu/SiO ₂ Catalysts Prepared by Different Methods: Structure, Hydrogenation Performance and the Promotion of Reduction Cu ⁺ to Cu ⁰ . ChemistrySelect, 2020, 5, 10781-10786.	0.7	2
769	The role of catalyst support on activity of copper oxide nanoparticles for reduction of 4-nitrophenol. Advanced Powder Technology, 2020, 31, 3845-3859.	2.0	26
770	Bifunctional copper modified graphitic carbon nitride catalysts for efficient tetracycline removal: Synergy of adsorption and photocatalytic degradation. Chinese Chemical Letters, 2020, 31, 2789-2794.	4.8	67
771	Hierarchical Cu ₃ P-based nanoarrays on nickel foam as efficient electrocatalysts for overall water splitting. Green Energy and Environment, 2022, 7, 236-245.	4.7	15
772	Green synthetic method of N-arylamides using recyclable cheap metal catalyst. Tetrahedron Letters, 2020, 61, 152327.	0.7	1
773	Shaping non-noble metal nanocrystals <i>via</i> colloidal chemistry. Chemical Science, 2020, 11, 11394-11403.	3.7	17
774	Visible/infrared light-driven high-efficiency CO ₂ conversion into ethane based on a Bâ€Co synergistic catalyst. Journal of Materials Chemistry A, 2020, 8, 22327-22334.	5.2	24
775	Mechanistic Understanding on the Role of Cu Species over the CuO<i>x</i>/TiO ₂ Catalyst for CO ₂ Photoreduction. ACS Omega, 2020, 5, 18050-18063.	1.6	14
776	Plasmon-enhanced furfural hydrogenation catalyzed by stable carbon-coated copper nanoparticles driven from metalâ€organic frameworks. Catalysis Science and Technology, 2020, 10, 6483-6494.	2.1	23
777	Structural and optical properties of copper nanoparticles synthesized via wet chemical route. AIP Conference Proceedings, 2020, , .	0.3	3
778	Synthesis, characterization and catalytic properties of a new binuclear copper(II) complex in the azideâ€alkyne cycloaddition. Polyhedron, 2020, 188, 114698.	1.0	10
779	Plasmonics under Attack: Protecting Copper Nanostructures from Harsh Environments. Chemistry of Materials, 2020, 32, 6788-6799.	3.2	16
780	Electrophoretic Deposition of Nanoporous Oxide Coatings from Concentrated CuO Nanoparticle Dispersions. Langmuir, 2020, 36, 8075-8085.	1.6	11
784	Ferrites for electrocatalytic water splitting applications. , 2020, , 123-145.		2
785	Size-Controlled Transformation of Cu ₂ O into Zero Valent Copper within the Matrix of Anion Exchangers via Green Chemical Reduction. Polymers, 2020, 12, 2629.	2.0	8
786	Plasmonic CuCo/Carbon Dots: An Unconventional Photocatalyst Used for Photocatalytic Overall Water Splitting. ACS Sustainable Chemistry and Engineering, 2020, 8, 17979-17987.	3.2	21
787	Synthesis of Metal Nanostructures Using Supercritical Carbon Dioxide: A Green and Upscalable Process. Small, 2020, 16, e2001972.	5.2	23
788	Recent Advances in Plasmon-Promoted Organic Transformations Using Silver-Based Catalysts. ACS Applied Materials & Interfaces, 2020, 12, 54266-54284.	4.0	49

#	ARTICLE	IF	CITATIONS
789	Utilization of CO ₂ for the Production of Cyclic 1 ² -Triketone Type Insecticides. ACS Sustainable Chemistry and Engineering, 2020, 8, 17908-17913.	3.2	4
790	Hierarchical Echinus-like Cu-MFI Catalysts for Ethanol Dehydrogenation. ACS Catalysis, 2020, 10, 13624-13629.	5.5	63
791	A novel CuO@Cu ₂ O/Ag@Ag ₃ PO ₄ nanocomposite: Synthesis, characterization, and its application for 2-chlorophenol decontamination under visible light. Journal of the Taiwan Institute of Chemical Engineers, 2020, 115, 208-217.	2.7	12
792	Surface generation mechanism of monocrystalline materials under arbitrary crystal orientations in nanoscale cutting. Materials Today Communications, 2020, 25, 101505.	0.9	8
793	Low-Overpotential Electrochemical Water Oxidation Catalyzed by CuO Derived from 2 nm-Sized Cu ₂ (NO ₃) ₃ (OH) ₃ Nanoparticles Generated by Laser Ablation at the Air-Liquid Interface. ACS Applied Energy Materials, 2020, 3, 8383-8392.	2.5	12
794	Surfactant assisted one-pot synthesis of copper nanoparticle arrays and their hydrogenation efficiency. International Journal of Materials Research, 2020, , .	0.1	0
795	Cu/CuO Composite Track-Etched Membranes for Catalytic Decomposition of Nitrophenols and Removal of As(III). Nanomaterials, 2020, 10, 1552.	1.9	21
796	Synthetic Organic Transformations of Transition-Metal Nanoparticles as Propitious Catalysts: A Review. Asian Journal of Organic Chemistry, 2020, 9, 1341-1376.	1.3	11
797	Supported heterogeneous nanocatalysts in sustainable, selective and eco-friendly epoxidation of olefins. Green Chemistry, 2020, 22, 5902-5936.	4.6	75
798	Effects of Synthetic Procedures and Postsynthesis Incubation pH on Size, Shape, and Antibacterial Activity of Copper (I) Oxide Nanoparticles. Journal of Chemistry, 2020, 2020, 1-10.	0.9	4
799	Aloe-vera leaf extract as a green agent for the synthesis of CuO nanoparticles inactivating bacterial pathogens and dye. Journal of Dispersion Science and Technology, 2021, 42, 1950-1962.	1.3	21
800	Template-Free Synthesis of Mesoporous 1 ² -MnO ₂ Nanoparticles: Structure, Formation Mechanism, and Catalytic Properties. ACS Applied Materials & Interfaces, 2020, 12, 36004-36013.	4.0	45
801	The preparation of NiO/Ni@N/C nanocomposites and its electrocatalytic performance for methanol oxidation reaction. New Journal of Chemistry, 2020, 44, 14970-14978.	1.4	17
802	Deposition of Cu on CNT to synthesize electrocatalysts for the electrochemical reduction of CO ₂ : Advantages of supercritical fluid deposition technique. Journal of Supercritical Fluids, 2020, 166, 104999.	1.6	7
803	Functional Mesoporous Silica Nanomaterials for Catalysis and Environmental Applications. Bulletin of the Chemical Society of Japan, 2020, 93, 1459-1496.	2.0	114
804	Copper-based nanocatalysts for nitroarene reduction-A review of recent advances. Inorganic Chemistry Communication, 2020, 121, 108181.	1.8	38
805	Experimental and Theoretical Studies of Glyphosate Detection in Water by an Europium Luminescent Complex and Effective Adsorption by HKUST-1 and IRMOF-3. Journal of Agricultural and Food Chemistry, 2020, 68, 9664-9672.	2.4	16
806	Infra-Red Emission and Electrochemical Properties of CuO/ZnO Nanocubes. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 5224-5233.	1.9	16

#	ARTICLE	IF	CITATIONS
807	Copper(II)-alkylamine mediated synthesis of copper nanowires. <i>Nanoscale</i> , 2020, 12, 17437-17449.	2.8	8
808	Dual Stimuli-Responsive Copper Nanoparticles Decorated SBA-15: A Highly Efficient Catalyst for the Oxidation of Alcohols in Water. <i>Nanomaterials</i> , 2020, 10, 2051.	1.9	8
809	Comparative Determination of Cytotoxicity of Sub-10 nm Copper Nanoparticles to Prokaryotic and Eukaryotic Systems. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50203-50211.	4.0	9
810	Visualizing single atom dynamics in heterogeneous catalysis using analytical <i>in situ</i> environmental scanning transmission electron microscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190605.	1.6	7
811	Facile, controllable, chemical reduction synthesis of copper nanostructures utilizing different capping agents. <i>Inorganic and Nano-Metal Chemistry</i> , 2021, 51, 1418-1430.	0.9	9
812	Intercalation of Copper Phthalocyanine Within Bulk Graphite as a New Strategy Toward the Synthesis of CuO-Based CO Oxidation Catalysts. <i>Frontiers in Chemistry</i> , 2020, 8, 735.	1.8	5
813	Co ^{II} /MOF-74@Cu ^{II} /MOF-74 Derived Bifunctional Co ^{II} /Cu ^{II} for One-Pot Production of 1,4-Diphenyl-1,3-butadiene from Phenylacetylene. <i>ChemCatChem</i> , 2020, 12, 6241-6247.	1.8	12
814	Recent advances in green synthesis and modification of inorganic nanomaterials by ionizing and non-ionizing radiation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23029-23058.	5.2	17
815	Detail review on chemical, physical and green synthesis, classification, characterizations and applications of nanoparticles. <i>Green Chemistry Letters and Reviews</i> , 2020, 13, 223-245.	2.1	361
816	Copper Telluride Nanosheet/Cu Foil Electrode: Facile Ionic Liquid-Assisted Synthesis and Efficient Oxygen Evolution Performance. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22117-22126.	1.5	15
817	Optimized Self-templating Synthesis Method for Highly Crystalline Hollow Cu ₂ O Nanoboxes. <i>Small Methods</i> , 2020, 4, 2000521.	4.6	10
818	Highly active and stable stepped Cu surface for enhanced electrochemical CO ₂ reduction to C ₂ H ₄ . <i>Nature Catalysis</i> , 2020, 3, 804-812.	16.1	298
819	Surface and Interface Designs in Copper-Based Conductive Inks for Printed/Flexible Electronics. <i>Nanomaterials</i> , 2020, 10, 1689.	1.9	54
820	CuO@NiO Nanocomposite Catalyzed Synthesis of Biologically Active Indenoisoquinoline Derivatives. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13701-13712.	3.2	14
821	<i>Operando</i> characterization techniques for electrocatalysis. <i>Energy and Environmental Science</i> , 2020, 13, 3748-3779.	15.6	159
822	Upcycling of Wastewater via Effective Photocatalytic Hydrogen Production Using MnO ₂ Nanoparticles-Decorated Activated Carbon Nanoflakes. <i>Nanomaterials</i> , 2020, 10, 1610.	1.9	29
823	Synergistic Effect of the Oleic Acid and Oleylamine Mixed-Liquid Matrix on Particle Size and Stability of Sputtered Metal Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18167-18176.	3.2	15
824	Copper nanoparticles on controlled pore glass (CPG) as highly efficient heterogeneous catalysts for <i>click</i> reactions. <i>Scientific Reports</i> , 2020, 10, 20547.	1.6	5

#	ARTICLE	IF	CITATIONS
825	Nanostructured Catalysts in the Protection and Deprotection of Hydroxyl and Thiol Groups. ACS Symposium Series, 2020, , 129-150.	0.5	0
826	Bactericides Based on Copper Nanoparticles Restrained Growth of Important Plant Pathogens. Pathogens, 2020, 9, 1024.	1.2	26
827	Late-stage diversification by ruthenium electro-catalyzed C-H mono- and di-acyloxylation. Green Synthesis and Catalysis, 2020, 1, 175-179.	3.7	20
828	Impact of aluminum and zinc oxides on morphological characters, germination, metals accumulation and DNA in fenugreek (<i>Trigonella foenum-graecum</i>). Journal of the Saudi Society of Agricultural Sciences, 2020, 19, 510-520.	1.0	7
829	Antioxidant Activity of Telmisartan-Cu(II) Nanoparticles Connected 2-Pyrimidinamine and Their Evaluation of Cytotoxicity Activities. BioMed Research International, 2020, 2020, 1-12.	0.9	5
830	Amphiphilic polymers of N-vinylpyrrolidone and their protective properties during the formation of metal nanoparticles. IOP Conference Series: Materials Science and Engineering, 2020, 919, 022046.	0.3	1
831	Spontaneously Splitting Copper Nanowires into Quantum Dots on Graphdiyne for Suppressing Lithium Dendrites. Advanced Materials, 2020, 32, e2004379.	11.1	74
832	Enhanced Electrochemical CO ₂ Reduction of Cu@Cu _x O Nanoparticles Decorated on 3D Vertical Graphene with Intrinsic sp ³ -type Defect. Advanced Functional Materials, 2020, 30, 1910118.	7.8	54
833	Anti-bacterial and anti-biofilm properties of green-synthesized copper nanoparticles from <i>Cardiospermum halicacabum</i> leaf extract. Bioprocess and Biosystems Engineering, 2020, 43, 1649-1657.	1.7	52
834	Synthesis and fabrication of g-C ₃ N ₄ -based materials and their application in elimination of pollutants. Science of the Total Environment, 2020, 731, 139054.	3.9	224
835	Enhancement of the dispersion and catalytic performances of copper in the hydrogenation of cinnamaldehyde by incorporation of aluminium into mesoporous SBA-15 silica. Applied Catalysis A: General, 2020, 598, 117615.	2.2	9
836	Recent developments of metallic nanoparticles and their catalytic activity in organic reactions. Journal of the Chinese Chemical Society, 2020, 67, 1326-1337.	0.8	9
837	Recent Advancement of p- and d-Block Elements, Single Atoms, and Graphene-Based Photoelectrochemical Electrodes for Water Splitting. Advanced Energy Materials, 2020, 10, 2000280.	10.2	88
838	The synthesis and catalytic activity of bimetallic CuAg nanoparticles and their magnetic hybrid composite materials. New Journal of Chemistry, 2020, 44, 9684-9690.	1.4	19
839	Nano-copper enhanced flexible device for simultaneous measurement of human respiratory and electro-cardiac activities. Journal of Nanobiotechnology, 2020, 18, 82.	4.2	4
840	Polymer Lamellae as Reaction Intermediates in the Formation of Copper Nanospheres as Evidenced by In-Situ X-ray Studies. Angewandte Chemie, 2020, 132, 11724-11730.	1.6	3
841	One-pot synthesis of symmetrical and asymmetrical diphenylamines from guanidines with aryl iodide using Cu/Cu ₂ O nanocatalyst. Molecular Catalysis, 2020, 492, 110998.	1.0	4
842	Facile Fabrication of Cu-doped Carbon Aerogels as Catalysts for the Thermal Decomposition of Ammonium Perchlorate. Applied Organometallic Chemistry, 2020, 34, e5700.	1.7	19

#	ARTICLE	IF	CITATIONS
843	Ultrasmall copper-based nanoparticles for reactive oxygen species scavenging and alleviation of inflammation related diseases. <i>Nature Communications</i> , 2020, 11, 2788.	5.8	406
844	Copper-tripeptides (cuzymes) with peroxidase-mimetic activity. <i>RSC Advances</i> , 2020, 10, 17408-17415.	1.7	5
845	Highly efficient and stable bicomponent cobalt oxide-copper catalysts for dehydrogenation. <i>Catalysis Communications</i> , 2020, 142, 106043.	1.6	5
846	Micellar catalysis enabled synthesis of indolylbenzothiazoles and their functionalization via Mn(II)-catalyzed C-H amination using pyridones. <i>Tetrahedron Letters</i> , 2020, 61, 152017.	0.7	6
848	Multifunctional copper polymer-based nanocomposite for environmental and agricultural applications. , 2020, , 189-211.		8
849	A gradient reduction strategy to produce defects-rich nano-twin Cu particles for targeting activation of carbon-carbon or carbon-oxygen in furfural conversion. <i>Journal of Catalysis</i> , 2020, 389, 78-86.	3.1	12
850	Cu&Cu ₂ O nanoparticles functionalized diamagnetic glasses: linear/nonlinear optical, magnetic and Faraday rotation. <i>Journal of Non-Crystalline Solids</i> , 2020, 543, 120156.	1.5	5
851	Nitrogen/Carbon-Coated Zero-Valent Copper as Highly Efficient Co-catalysts for TiO ₂ Applied in Photocatalytic and Photoelectrocatalytic Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30365-30380.	4.0	35
852	Organic/inorganic nanocomposites for cancer immunotherapy. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2571-2609.	3.2	38
853	Andean Sacha Inchi (<i>Plukenetia Volubilis</i> L.) Leaf-Mediated Synthesis of Cu ₂ O Nanoparticles: A Low-Cost Approach. <i>Bioengineering</i> , 2020, 7, 54.	1.6	19
854	Covalency competition dominates the water oxidation structure-activity relationship on spinel oxides. <i>Nature Catalysis</i> , 2020, 3, 554-563.	16.1	284
855	Cooperative and fully reversible color switching activation in hybrid graphene decorated nanocages and copper-TiO ₂ nanoparticles. <i>Materials Today Energy</i> , 2020, 17, 100460.	2.5	7
856	Ultrathin Octahedral CuPt Nanocages Obtained by Facet Transformation from Rhombic Dodecahedral Core-Shell Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10544-10553.	3.2	10
857	Recent Progress of Cu-Catalyzed Azide-Alkyne Cycloaddition Reactions (CuAAC) in Sustainable Solvents: Glycerol, Deep Eutectic Solvents, and Aqueous Media. <i>Molecules</i> , 2020, 25, 2015.	1.7	52
858	Copper Nanoclusters/Red Globe Flower Carbon as a Fenton-Like Catalyst for the Degradation of Amido Black 10B. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	5
859	Nonisothermal Crystallization-Kinetic Studies on Ag ⁺ Ion-Exchanged Silicate Glasses: Silver Nanocrystals Growth-Kinetics in Glasses. <i>Journal of Non-Crystalline Solids</i> , 2020, 544, 120166.	1.5	2
860	Perspectives on the Active Sites and Catalyst Design for the Hydrogenation of Dimethyl Oxalate. <i>ACS Catalysis</i> , 2020, 10, 4465-4490.	5.5	69
861	Hybrid organic-inorganic Cu(II) iminoisonicotine@TiO ₂ @Fe ₃ O ₄ heterostructure as efficient catalyst for cross-couplings. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4632-4653.	1.9	19

#	ARTICLE	IF	CITATIONS
862	UV/Vis Spectroscopy of Copper Formate Clusters: Insight into Metal–Ligand Photochemistry. <i>Chemistry - A European Journal</i> , 2020, 26, 8286-8295.	1.7	10
863	Selective Hydrogenolysis of Glycerol over Bifunctional Copper–Magnesium-Supported Catalysts for Propanediol Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6506-6516.	1.8	25
864	Effects of copper oxide nanoparticles on growth of lettuce (<i>Lactuca sativa</i> L.) seedlings and possible implications of nitric oxide in their antioxidative defense. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 232.	1.3	72
865	Sustainable Hydrogenation of Nitroarenes to Anilines with Highly Active <i>in situ</i> Generated Copper Nanoparticles. <i>ChemCatChem</i> , 2020, 12, 2833-2839.	1.8	14
866	Borohydride-modified polyurethane foam: a new form of a widely known reducing agent in synthesis of metal nanoparticles for sensing applications. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 1023-1033.	1.6	4
867	Effect of morphology and support of copper nanoparticles on basic ovarian granulosa cell functions. <i>Nanotoxicology</i> , 2020, 14, 683-695.	1.6	12
868	Crystalline Copper Selenide as a Reliable Non-Noble Electro(pre)catalyst for Overall Water Splitting. <i>ChemSusChem</i> , 2020, 13, 3222-3229.	3.6	85
869	Mechanistic understanding of Cu-based bimetallic catalysts. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 689-748.	2.3	28
870	Sub 1 nm Poly(acrylic acid)-Capped Copper Nanoparticles for the Synthesis of 1,2,3-Triazole Compounds. <i>ACS Omega</i> , 2020, 5, 7815-7822.	1.6	8
871	Antibacterial, Antifungal and Mosquitocidal Efficacy of Copper Nanoparticles Synthesized from Entomopathogenic Nematode: Insect–Host Relationship of Bacteria in Secondary Metabolites of <i>Morganella morganii</i> sp. (PMA1). <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 4489-4501.	1.7	14
872	Precise Control of Cu Nanoparticle Size and Catalytic Activity through Pore Templating in Zr Metal–Organic Frameworks. <i>Chemistry of Materials</i> , 2020, 32, 3078-3086.	3.2	21
873	Stabilizing CuGaS ₂ by crystalline CdS through an interfacial Z-scheme charge transfer for enhanced photocatalytic CO ₂ reduction under visible light. <i>Nanoscale</i> , 2020, 12, 8693-8700.	2.8	39
874	Development and characterization of varying percentages of Ru-doped ZnO (xRu:ZnO; 1%–5%) as a potential material for LPG sensing at room temperature. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	9
875	Scalable Approaches to Copper Nanocrystal Synthesis under Ambient Conditions for Printed Electronics. <i>ACS Applied Nano Materials</i> , 2020, 3, 3523-3531.	2.4	8
876	Potential Link between Cu Surface and Selective CO ₂ Electroreduction: Perspective on Future Electrocatalyst Designs. <i>Advanced Materials</i> , 2020, 32, e1908398.	11.1	182
877	Nanoparticle-Catalysed 1,3-Dipolar Cycloadditions. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6173-6191.	1.2	7
878	Hollow Au–Cu 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.	2.4	16
879	Earth-Abundant d-Block Metal Nanocatalysis for Coupling Reactions in Polyols. <i>Molecular Catalysis</i> , 2020, , 249-280.	1.3	2

#	ARTICLE	IF	CITATIONS
880	In situ grown Cu-Based metal-organic framework on copper foam as high-performance electrocatalysts for oxygen evolution reaction. International Journal of Hydrogen Energy, 2020, 45, 21540-21546.	3.8	24
881	Catalytic reduction of 4-nitrophenol on the surface of copper/copper oxide nanoparticles: a kinetics study. Applied Nanoscience (Switzerland), 2020, 10, 3827-3837.	1.6	12
882	Utilizing the Surface Electrostatic Potential to Predict the Interactions of Pt and Ni Nanoparticles with Lewis Acids and Bases—If-Lumps and If-Holes Govern the Catalytic Activities. Journal of Physical Chemistry C, 2020, 124, 14696-14705.	1.5	13
883	Synthesis of octapod Cu–Au bimetallic nanocrystal with concave structure through galvanic replacement reaction. Journal of Electronic Science and Technology, 2020, 18, 100046.	2.0	1
884	Recovery of solid waste as functional heterogeneous catalysts for organic pollutant removal and biodiesel production. Chemical Engineering Journal, 2020, 401, 126104.	6.6	51
885	Direct synthesis of single-layer graphene films on quartz substrate by a nanoparticle-assisted method. Applied Surface Science, 2020, 529, 147082.	3.1	11
886	Boosting the on-demand hydrogen generation from aqueous ammonia borane by the visible-light-driven synergistic electron effect in antenna-reactor-type catalysts with plasmonic copper spheres and noble-metal-free nanoparticles. Chemical Engineering Journal, 2020, 401, 126068.	6.6	22
887	Copper-based nanocatalysts produced via laser-induced ex situ generation for homo- and cross-coupling reactions. Chemical Engineering Science, 2020, 227, 115940.	1.9	6
888	Facile synthesis and characterization of nano-Pd loaded NiCo microfibers as stable catalysts for hydrogen generation from sodium borohydride. Chemical Physics Letters, 2020, 743, 137170.	1.2	16
889	Enhanced Catalytic Performance of Subnano Copper Oxide Particles. ACS Nano, 2020, 14, 1804-1810.	7.3	43
890	Carboxylative cyclization of propargylic alcohols with carbon dioxide: A facile and Green route to 1,4-methylene cyclic carbonates. Journal of CO2 Utilization, 2020, 38, 220-231.	3.3	52
891	Prediction of Structures and Atomization Energies of Coinage Metals, (M) _n , <i>n</i> ≤ 20: Extrapolation of Normalized Clustering Energies to Predict the Cohesive Energy. Journal of Physical Chemistry A, 2020, 124, 1775-1786.	1.1	10
892	Gold nanobipyramid-embedded ultrathin metal nanoframes for <i>in situ</i> monitoring catalytic reactions. Chemical Science, 2020, 11, 3198-3207.	3.7	35
893	Enhanced Stability and Catalytic Activity on Layered Perovskite Anode for High-Performance Hybrid Direct Carbon Fuel Cells. ACS Applied Materials & Interfaces, 2020, 12, 12938-12948.	4.0	24
894	Cupric Oxide Nanoleaves for the Oxidative Degradation of Methyl Orange without Heating or Light. ACS Applied Nano Materials, 2020, 3, 2987-2996.	2.4	12
895	Multifunctional porous organic polymers (POPs): Inverse adsorption of hydrogen over nitrogen, stabilization of Pd(0) nanoparticles, and catalytic cross-coupling reactions and reductions. Journal of Catalysis, 2020, 384, 61-71.	3.1	32
896	<i>In situ</i> one-step synthesis of polymer-functionalized palladium nanoparticles: an efficient anticancer agent against breast cancer. Dalton Transactions, 2020, 49, 3510-3518.	1.6	23
897	Recent Advances on the Rational Design of Non-Precious Metal Oxide Catalysts Exemplified by CuOx/CeO2 Binary System: Implications of Size, Shape and Electronic Effects on Intrinsic Reactivity and Metal-Support Interactions. Catalysts, 2020, 10, 160.	1.6	66

#	ARTICLE	IF	CITATIONS
898	A Low-Temperature Molecular Precursor Approach to Copper-Based Nano-Sized <i>Digenite</i> Mineral for Efficient Electrocatalytic Oxygen Evolution Reaction. <i>Chemistry - an Asian Journal</i> , 2020, 15, 852-859.	1.7	32
899	V ₂ O ₅ Nanobelts Mimick Tandem Enzymes To Achieve Nonenzymatic Online Monitoring of Glucose in Living Rat Brain. <i>Analytical Chemistry</i> , 2020, 92, 4583-4591.	3.2	55
900	Solid-state symmetric supercapacitor based on Y doped Sr(OH) ₂ using SILAR method. <i>Energy</i> , 2020, 197, 117163.	4.5	16
901	Highly Crystallized Pd/Cu Nanoparticles on Activated Carbon: An Efficient Heterogeneous Catalyst for Sonogashira Cross-Coupling Reaction. <i>Catalysts</i> , 2020, 10, 192.	1.6	17
902	An overview on the copper-promoted synthesis of five-membered heterocyclic systems. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5600.	1.7	26
903	Antioxidative metallic copper nanoparticles prepared by modified polyol method and their catalytic activities. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	17
904	Investigation of catalytic and fuel additive applications of copper/copper(I) oxide/copper(II) oxide (Cu/CuO/Cu ₂ O) microspheres synthesized by hydrothermal method using sucrose as template. <i>Materials Research Express</i> , 2020, 7, 025036.	0.8	9
905	<i>In situ</i> oxidation studies of Cu thin films: Growth kinetics and oxide phase evolution. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	35
906	Copper Catalysts in Semihydrogenation of Acetylene: From Single Atoms to Nanoparticles. <i>ACS Catalysis</i> , 2020, 10, 3495-3504.	5.5	115
907	Synthesis of copper and copper oxide nanomaterials by electrical discharges in water with various electrical conductivities. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	21
908	Glycerol: An Optimal Hydrogen Source for Microwave-Promoted Cu-Catalyzed Transfer Hydrogenation of Nitrobenzene to Aniline. <i>Frontiers in Chemistry</i> , 2020, 8, 34.	1.8	19
909	Controlling the morphology of copper-silica nanocomposites from laser ablation in liquid. <i>Applied Surface Science</i> , 2020, 510, 145037.	3.1	15
910	Solution-Processed Transparent Electrodes for Emerging Thin-Film Solar Cells. <i>Chemical Reviews</i> , 2020, 120, 2049-2122.	23.0	152
911	Nanocatalysts and other nanomaterials for water remediation from organic pollutants. <i>Coordination Chemistry Reviews</i> , 2020, 408, 213180.	9.5	389
912	Tailor-Designed Porous Catalysts: Nickel-Doped Cu/Cu ₂ O Foams for Efficient Glycerol Electro-Oxidation. <i>ChemElectroChem</i> , 2020, 7, 951-958.	1.7	19
913	Synthesis of copper nanoparticles from refractory sulfides using a semi-industrial mechanochemical approach. <i>Advanced Powder Technology</i> , 2020, 31, 782-791.	2.0	10
914	Ultrafine copper nanoparticles anchored on reduced graphene oxide present excellent catalytic performance toward 4-nitrophenol reduction. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 265-270.	5.0	42
915	Efficient Sonogashira and A ₃ coupling reactions catalyzed by biosynthesized magnetic Fe ₃ O ₄ @Ni nanoparticles from <i>Euphorbia maculata</i> extract. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5473.	1.7	27

#	ARTICLE	IF	CITATIONS
916	Effect of Chlamydomonas reinhardtii on the fate of CuO nanoparticles in aquatic environment. Chemosphere, 2020, 247, 125935.	4.2	9
917	Metal-Organic Framework-Based Sustainable Nanocatalysts for CO Oxidation. Nanomaterials, 2020, 10, 165.	1.9	11
918	Ultra-layered sheet Cu Co nanoparticles for optimized application in catalytic reduction of organic dye. Materials Characterization, 2020, 160, 110116.	1.9	7
919	Elucidating the Nature of the Cu(I) Active Site in CuO/TiO ₂ for Excellent Low-Temperature CO Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 7091-7101.	4.0	51
920	Cu nanoparticles deposited on CNT by supercritical fluid deposition for electrochemical reduction of CO ₂ in a gas phase GDE cell. Electrochimica Acta, 2020, 337, 135663.	2.6	15
921	A decade of advances in the reaction of nitrogen sources and alkynes for the synthesis of triazoles. Coordination Chemistry Reviews, 2020, 409, 213217.	9.5	52
922	Boosting CO ₂ Electroreduction to CH ₄ via Tuning Neighboring Single-Copper Sites. ACS Energy Letters, 2020, 5, 1044-1053.	8.8	326
923	Optical trapping reveals differences in dielectric and optical properties of copper nanoparticles compared to their oxides and ferrites. Scientific Reports, 2020, 10, 1198.	1.6	16
924	Biosynthesis of Copper Oxide Nanoparticles Using Lactobacillus casei Subsp. Casei and its Anticancer and Antibacterial Activities. Current Nanoscience, 2020, 16, 101-111.	0.7	62
925	Highly fluorescent copper nanoclusters for sensing and bioimaging. Biosensors and Bioelectronics, 2020, 154, 112078.	5.3	130
926	High-performance electrocatalytic microfiltration CuO/Carbon membrane by facile dynamic electrodeposition for small-sized organic pollutants removal. Journal of Membrane Science, 2020, 601, 117913.	4.1	43
927	Tuneable Copper Catalysed Transfer Hydrogenation of Nitrobenzenes to Aniline or Azo Derivatives. Advanced Synthesis and Catalysis, 2020, 362, 2689-2700.	2.1	15
928	Green synthesis of Cu/Cu ₂ O/CuO nanostructures and the analysis of their electrochemical properties. SN Applied Sciences, 2020, 2, 1.	1.5	30
929	Importance of the decoration in shaped cobalt nanoparticles in the acceptor-less secondary alcohol dehydrogenation. Catalysis Science and Technology, 2020, 10, 4923-4937.	2.1	14
930	Sustainable Synthesis of Nanoscale Zerovalent Iron Particles for Environmental Remediation. ChemSusChem, 2020, 13, 3288-3305.	3.6	42
931	Room temperature CO oxidation over AgCuO ₂ . Applied Surface Science, 2020, 525, 146523.	3.1	9
932	Phase-separated Ce-Co-O catalysts for CO oxidation. International Journal of Hydrogen Energy, 2020, 45, 12777-12786.	3.8	15
933	Synthesis and characterization of Cu-Sn oxides nanoparticles via wire explosion method with surfactants, evaluation of in-vitro cytotoxic and antibacterial properties. Advanced Powder Technology, 2020, 31, 2337-2347.	2.0	2

#	ARTICLE	IF	CITATIONS
934	Tuning Interfacial Electron Transfer by Anchoring NiFe-LDH on In-situ Grown Cu ₂ O for Enhancing Oxygen Evolution. <i>Catalysis Letters</i> , 2020, 150, 3049-3057.	1.4	7
935	Green synthesis of CuO nanoparticles using <i>Lantana camara</i> flower extract and their potential catalytic activity towards the aza-Michael reaction. <i>RSC Advances</i> , 2020, 10, 14374-14385.	1.7	106
936	Halides-assisted electrochemical synthesis of Cu/Cu ₂ O/CuO core-shell electrocatalyst for oxygen evolution reaction. <i>Journal of Power Sources</i> , 2020, 457, 228058.	4.0	34
937	Tandem Oxidative Pudovik Reaction Using Fe ₃ O ₄ @SiO ₂ -Metformin-Cu (II) as an Efficient and Recoverable Catalyst. <i>ChemistrySelect</i> , 2020, 5, 4263-4266.	0.7	8
938	[Cu ₈₁ (PhS) ₄₆](⁺ tBuNH ₂) ₁₀ (H) ₃₂] ³⁺ Reveals the Coexistence of Large Planar Cores and Hemispherical Shells in High-Nuclearity Copper Nanoclusters. <i>Journal of the American Chemical Society</i> , 2020, 142, 8696-8705.	6.6	81
939	Polymer Lamellae as Reaction Intermediates in the Formation of Copper Nanospheres as Evidenced by In-Situ X-Ray Studies. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11627-11633.	7.2	12
940	Renewable RGO@CuI Nanocomposites for Redox Triggered Single Electron Transfer (SET) Reaction Under Aerobic and Anaerobic Conditions. <i>ChemCatChem</i> , 2020, 12, 3728-3736.	1.8	2
941	Metal-based nanocontainers for drug delivery in tumor therapy. , 2020, , 195-215.		3
942	CoGa Particles Stabilized by the Combination of Alloyed Ga ⁰ and Lattice Ga ^{III} Species. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 8649-8660.	1.8	6
943	Overview of the application of inorganic nanomaterials in cancer photothermal therapy. <i>Biomaterials Science</i> , 2020, 8, 2990-3020.	2.6	208
944	Green Synthesis, Characterization and Antimicrobial Activity of Copper Oxide Nanomaterial Derived from <i>Momordica charantia</i> . <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 2541-2553.	3.3	79
945	Surface-engineered gadolinium oxide nanorods and nanocuboids for bioimaging. <i>Rare Metals</i> , 2021, 40, 848-857.	3.6	5
946	Optical, structural, and catalytic properties of synthesized Cu ₂ O nanocubes. <i>Indian Journal of Physics</i> , 2021, 95, 607-619.	0.9	3
947	Synthesis and electrochemical study of coinage metal nanodendrites for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 2007-2017.	3.8	6
948	Preparation and study of the catalytic application in the synthesis of xanthenedione pharmaceuticals of a hybrid nano-system based on copper, zinc and iron nanoparticles. <i>Research on Chemical Intermediates</i> , 2021, 47, 973-996.	1.3	25
949	The active site of ethanol formation from syngas over Cu ₄ cluster modified MoS ₂ catalyst: A theoretical investigation. <i>Applied Surface Science</i> , 2021, 540, 148301.	3.1	4
950	Production of copper nanoparticles exhibiting various morphologies via pulsed laser ablation in different solvents and their catalytic activity for reduction of toxic nitroaromatic compounds. <i>Journal of Hazardous Materials</i> , 2021, 409, 124412.	6.5	50
951	Synthesis, characterization, and thermal decomposition kinetics of copper hydroxide sulfate (Cu ₄ (SO ₄)(OH) ₆) synthesized by chemical precipitation method. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, .	0.8	2

#	ARTICLE	IF	CITATIONS
952	Sintering- and oxidation-resistant ultrasmall Cu(I)/(II) oxides supported on defect-rich mesoporous alumina microspheres boosting catalytic ozonation. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 964-978.	5.0	24
953	Effect of alkyl substituent on molecular configuration in a Cu(II) complex: Synthesis of Cu and CuO nanoparticles using a single, solid-source precursor. <i>Journal of Molecular Structure</i> , 2021, 1224, 129011.	1.8	5
954	Optimisation of the green synthesis of Cu/Cu ₂ O particles for maximum yield production and reduced oxidation for electronic applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 263, 114807.	1.7	7
955	Optical and electrochemical properties of 3D nanoporous Cu ₂ O@Cu inverse opal structures tuned by electrodeposition. <i>Materials Science in Semiconductor Processing</i> , 2021, 121, 105444.	1.9	6
956	Atomic Nanoarchitectonics for Catalysis. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001395.	1.9	15
957	Photo-reduction synthesis of Cu nanoparticles as plasmon-driven non-semiconductor photocatalyst for overall water splitting. <i>Applied Surface Science</i> , 2021, 535, 147720.	3.1	28
958	Activity of heterogeneous supported Cu and Ru catalysts in acceptor-less alcohol dehydrogenation. <i>Catalysis Communications</i> , 2021, 148, 106179.	1.6	16
959	Synthesis of Fe ₃ O ₄ -supported Schiff base Cu (II) complex: a novel efficient and recyclable magnetic nanocatalyst for one-pot three-component synthesis of quinolin-5-one, chromene-3-carbonitrile and phthalazine-5,10-dione derivatives. <i>Research on Chemical Intermediates</i> , 2021, 47, 683-707.	1.3	20
960	Green synthesis of Cu nanoparticles supported on straw-graphene composite for catalytic reduction of p-nitrophenol. <i>Journal of Cleaner Production</i> , 2021, 283, 124578.	4.6	38
961	Biosynthesis of Metals and Metal Oxide Nanoparticles Through Microalgal Nanobiotechnology: Quality Control Aspects. <i>BioNanoScience</i> , 2021, 11, 209-226.	1.5	15
962	Manganese oxide promoter effects in the copper-catalyzed hydrogenation of ethyl acetate. <i>Journal of Catalysis</i> , 2021, 394, 307-315.	3.1	13
963	Cu ₂ O/CuO heterojunction catalysts through atmospheric pressure plasma induced defect passivation. <i>Applied Surface Science</i> , 2021, 541, 148571.	3.1	43
964	Surfactant- and template-free hydrothermal assembly of Cu ₂ O visible light photocatalysts for trimethoprim degradation. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119741.	10.8	60
965	Inorganic Nanoparticles Applied as Functional Therapeutics. <i>Advanced Functional Materials</i> , 2021, 31, 2008171.	7.8	51
966	Rational Design of Bimetallic Au/Cu Nanostructure: An Efficient Catalyst for Methanol Oxidation. <i>ChemNanoMat</i> , 2021, 7, 158-164.	1.5	13
967	Novel neuron-network-like Cu@MoO ₂ /C composite derived from bimetallic organic framework for highly efficient detection of hydrogen peroxide. <i>Analytica Chimica Acta</i> , 2021, 1143, 73-83.	2.6	21
968	Biosynthesis of Cu/Fe ₃ O ₄ nanoparticles using <i>Alhagi camelorum</i> aqueous extract and their catalytic activity in the synthesis of 2-imino-3-aryl-2,3-dihydrobenzo[d]oxazol-5-ol derivatives. <i>Journal of Molecular Structure</i> , 2021, 1228, 129731.	1.8	13
969	A ^{Top}-Down Approach towards Cu(I) Alkynyl Clusters with Unusual Geometry. <i>Chinese Journal of Chemistry</i> , 2021, 39, 937-941.	2.6	9

#	ARTICLE	IF	CITATIONS
970	Microwave-assisted synthesis of various Cu ₂ O/Cu/TiO ₂ and Cu _x S/TiO ₂ composite nanoparticles towards visible-light photocatalytic applications. Materials Chemistry and Physics, 2021, 259, 123986.	2.0	5
971	Nanostructured copper selenide as an ultrasensitive and selective non-enzymatic glucose sensor. Materials Advances, 2021, 2, 927-932.	2.6	18
972	Sintering and deposition of homo- and heteronanoparticles of aluminum and nickel on aluminum (100) substrate. Chemical Physics, 2021, 541, 111037.	0.9	6
973	Interfacial engineering of Cu ₂ Se/Co ₃ Se ₄ multivalent hetero-nanocrystals for energy-efficient electrocatalytic co-generation of value-added chemicals and hydrogen. Applied Catalysis B: Environmental, 2021, 285, 119800.	10.8	51
974	Antibacterial, proangiogenic, and osteopromotive nanoglass paste coordinates regenerative process following bacterial infection in hard tissue. Biomaterials, 2021, 268, 120593.	5.7	37
975	Laser fabrication of Cu nanoparticles based nanofluid with enhanced thermal conductivity: Experimental and molecular dynamics studies. Journal of Molecular Liquids, 2021, 323, 114975.	2.3	24
976	Carbon monoxide oxidation over copper and nitrogen modified titanium dioxide. Applied Catalysis B: Environmental, 2021, 285, 119748.	10.8	23
977	A dual-mode strategy for sensing and bio-imaging of endogenous alkaline phosphatase based on the combination of photoinduced electron transfer and hyperchromic effect. Analytica Chimica Acta, 2021, 1142, 65-72.	2.6	6
978	Femtosecond laser ablation of metal targets: The physical origin of the power law size distribution of nanoparticles. Optics and Laser Technology, 2021, 134, 106651.	2.2	6
979	Copper film electrode for sensitive detection of nitrophenols. Sensors and Actuators B: Chemical, 2021, 330, 129338.	4.0	10
980	Complexation effect of copper(II) with HEDP supported by activated carbon and influence on acetylene hydration. New Journal of Chemistry, 2021, 45, 1712-1720.	1.4	13
981	Effect of the kind of cupric compound deposit on thermal decomposition of anion exchangers. Thermochimica Acta, 2021, 695, 178812.	1.2	5
982	Ultrastable Plasmonic Cu-Based Core-Shell Nanoparticles. Chemistry of Materials, 2021, 33, 695-705.	3.2	29
983	Influence mechanisms of the surface morphologies on the elementary diffusion kinetics on the Cu (1 1) Tj ETQq1 1,0,784314,rgBT /Over	1.4	10
984	Hydroxypropyl methylcellulose-copper nanoparticle and its nanocomposite hydrogel films for antibacterial application. Carbohydrate Polymers, 2021, 254, 117302.	5.1	63
985	Overview for multimetallic nanostructures with biomedical, environmental and industrial applications. Journal of Molecular Liquids, 2021, 321, 114669.	2.3	28
986	Photocatalytic and electrocatalytic transformations of C1 molecules involving C-C coupling. Energy and Environmental Science, 2021, 14, 37-89.	15.6	110
987	Electrochemical Reduction of CO ₂ at Coinage Metal Nanodendrites in Aqueous Ethanolamine. Chemistry - A European Journal, 2021, 27, 1346-1355.	1.7	11

#	ARTICLE	IF	CITATIONS
988	Noble-Metal Based Random Alloy and Intermetallic Nanocrystals: Syntheses and Applications. Chemical Reviews, 2021, 121, 736-795.	23.0	269
989	Interaction of nanoparticles with soil. , 2021, , 101-132.		8
990	Effect of CO Molecule Orientation on the Reduction of Cu-Based Nanoparticles. Nanomaterials, 2021, 11, 279.	1.9	5
991	Solid supported copper for N-heterocycles. , 2021, , 431-455.		0
992	Facilely Anchoring Cu nanoparticles on WO ₃ Nanocubes for Enhanced Photocatalysis through Efficient Interface Charge Transfer. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2021, 36, 325.	0.6	2
993	Self-Assembled Sandwich-like MXene-Derived Composites as Highly Efficient and Sustainable Catalysts for Wastewater Treatment. Langmuir, 2021, 37, 1267-1278.	1.6	69
994	Vapor-phase production of nanomaterials. Chemical Society Reviews, 2021, 50, 7132-7249.	18.7	32
995	Theoretical and experimental study of the influence of PEG and PEI on copper electrodeposition. New Journal of Chemistry, 2021, 45, 19655-19659.	1.4	3
996	Copper nanoclusters: designed synthesis, structural diversity, and multiplatform applications. Nanoscale, 2021, 13, 6283-6340.	2.8	105
997	Al ₂ O ₃ /CuI/PANI nanocomposite catalyzed green synthesis of biologically active 2-substituted benzimidazole derivatives. Dalton Transactions, 2021, 50, 7750-7758.	1.6	15
998	Photoluminescence and Electrochemical Sensing of Atomically Precise Cu ₁₃ Cluster. Acta Chimica Sinica, 2021, 79, 1037.	0.5	2
999	Surfactant-free synthesis of copper nanoparticles and gas phase integration in CNT-composite materials. Nanoscale Advances, 2021, 3, 781-788.	2.2	7
1000	Biosynthesis of silver sulfide nanoparticle and its applications. , 2021, , 191-200.		14
1001	Biological synthesis of platinum, palladium, copper, and zinc nanostructures. , 2021, , 211-223.		0
1002	A reusable catalyst based on CuO hexapods and a CuO@Ag composite for the highly efficient reduction of nitrophenols. RSC Advances, 2021, 11, 13193-13200.	1.7	12
1003	Sufficiency and toxicity limits of metallic oxide nanoparticles in the biosphere. , 2021, , 145-221.		3
1004	Copper-Modified Polymeric Membranes for Water Treatment: A Comprehensive Review. Membranes, 2021, 11, 93.	1.4	25
1005	Improving the photocatalytic H ₂ evolution activity of Keggin polyoxometalates anchoring copper-azole complexes. Green Chemistry, 2021, 23, 3104-3114.	4.6	77

#	ARTICLE	IF	CITATIONS
1006	Evaluation of the role of graphene-based Cu(C_{60}) catalysts in borylation reactions. Catalysis Science and Technology, 2021, 11, 3501-3513.	2.1	8
1007	Effect of metallic nanoparticles on microorganism: A review. Science Archives, 2021, 02, 135-143.	0.2	0
1008	Amines and Amine-boranes. RSC Nanoscience and Nanotechnology, 2021, , 130-156.	0.2	2
1009	Recent advances on enhancing the multicarbon selectivity of nanostructured Cu-based catalysts. Physical Chemistry Chemical Physics, 2021, 23, 12514-12532.	1.3	12
1010	Elucidating the role of precursors in synthesizing single crystalline lithium niobate nanomaterials: a study of effects of lithium precursors on nanoparticle quality. Nanoscale, 2021, 13, 3214-3226.	2.8	5
1011	Metal-catalyzed reactions for the $\text{C}(\text{sp}^2)\text{-N}$ bond formation: achievements of recent years. Russian Chemical Reviews, 2021, 90, 1359-1396.	2.5	20
1012	Sandwich hydrogel with confined plasmonic Cu/carbon cells for efficient solar water purification. Journal of Materials Chemistry A, 2021, 9, 15462-15471.	5.2	41
1013	Copper anchored on phosphorus $\text{g-C}_3\text{N}_4$ as a highly efficient photocatalyst for the synthesis of $\text{N-arylpyridin-2-amines}$. Green Chemistry, 2021, 23, 1041-1049.	4.6	58
1014	Spectroscopy and photochemistry of copper nitrate clusters. Physical Chemistry Chemical Physics, 2021, 23, 9911-9920.	1.3	3
1015	Construction of a novel $\text{Cu}_2(\text{OH})_3\text{F/g-C}_3\text{N}_4$ heterojunction as a high-activity Fenton-like catalyst driven by visible light. New Journal of Chemistry, 2021, 45, 14458-14468.	1.4	8
1016	RuxPdy Alloy Nanoparticles Uniformly Anchored on Reduced Graphene Oxide Nanosheets (RuxPdy@rGO): A Recyclable Catalyst. ACS Omega, 2021, 6, 1415-1425.	1.6	13
1017	Green Biosynthesis of Copper Oxide Nanoparticles Using Waste Colocasia esculenta Leaves Extract and Their Application as Recyclable Catalyst Towards the Synthesis of 1,2,3-triazoles. BioNanoScience, 2021, 11, 189-199.	1.5	20
1018	A review on environmentally benevolent synthesis of CdS nanoparticle and their applications. Environmental Chemistry and Ecotoxicology, 2021, 3, 209-219.	4.6	52
1019	Uncovering the active sites and demonstrating stable catalyst for the cost-effective conversion of ethanol to 1-butanol. Green Chemistry, 2021, 23, 8030-8039.	4.6	7
1020	Microwave-assisted novel one-pot synthesis and characterization of copper oxide. Chemical Papers, 2021, 75, 2597-2601.	1.0	2
1021	Green Synthesis of Copper Nanoparticles and its Characterization. Journal of Scientific Research, 2021, 65, 80-84.	0.1	2
1022	Hydrothermal synthesis of high surface area CuCrO_2 for H_2 production by methanol steam reforming. RSC Advances, 2021, 11, 12607-12613.	1.7	13
1023	Revealing the growth of copper on polystyrene-block-poly(ethylene oxide) diblock copolymer thin films with in situ GISAXS. Nanoscale, 2021, 13, 10555-10565.	2.8	11

#	ARTICLE	IF	CITATIONS
1024	Polarity control of DNA adsorption enabling the surface functionalization of CuO nanozymes for targeted tumor therapy. <i>Materials Horizons</i> , 2021, 8, 972-986.	6.4	29
1025	Copper based on diaminonaphthalene-coated magnetic nanoparticles as robust catalysts for catalytic oxidation reactions and C–S cross-coupling reactions. <i>RSC Advances</i> , 2021, 11, 9366-9380.	1.7	10
1026	Boosting chemoselective reduction of 4-nitrostyrene <i>via</i> photoinduced energetic electrons from <i>in situ</i> formed Cu nanoparticles on carbon dots. <i>Green Chemistry</i> , 2021, 23, 2938-2943.	4.6	13
1027	Sustainable fabrication, optical properties and rapid performance of bio-engineered copper nanoparticles in removal of toxic methylene blue dye in an aqueous medium. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, 4, 100103.	2.9	13
1028	Biogenic synthesis of ZnO nanoparticles from <i>Parthenium hysterophorus</i> extract and its catalytic activity for building bioactive polyhydroquinolines. <i>Research on Chemical Intermediates</i> , 2021, 47, 1743-1758.	1.3	7
1029	The energetic characteristics of surface atoms in Cu clusters: Size and site consideration by first-principle calculation. <i>Vacuum</i> , 2021, 184, 109971.	1.6	1
1030	Co/N-doped carbon nanosheets derived from InOF-1 precursors for efficient Zn-Air battery. <i>Microporous and Mesoporous Materials</i> , 2021, 314, 110868.	2.2	4
1031	Conversion of CO ₂ to Heterocyclohexenol Carboxylic Acids through a Metal–Organic Framework Sponge. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7389-7395.	4.0	22
1032	Dehalogenation of Aryl Bromides by CuO/ZrO ₂ in The Presence of Alcohols as Hydrogen Donors. <i>ChemistrySelect</i> , 2021, 6, 1372-1377.	0.7	1
1033	Weakly Hydrated Anion Exchangers Doped with Cu ₂ O and CuO Particles—Thermogravimetric Studies. <i>Materials</i> , 2021, 14, 925.	1.3	6
1034	A Review on Heavy Metal Ions and Containing Dyes Removal Through Graphene Oxide–Based Adsorption Strategies for Textile Wastewater Treatment. <i>Chemical Record</i> , 2021, 21, 1570-1610.	2.9	353
1035	Designing Carbonized Loofah Sponge Architectures with Plasmonic Cu Nanoparticles Encapsulated in Graphitic Layers for Highly Efficient Solar Vapor Generation. <i>Nano Letters</i> , 2021, 21, 1709-1715.	4.5	79
1036	Preparation of pyrimido[4,5- <i>b</i>][1,6]naphthyridin-4(1 <i>H</i>)-one derivatives using a zeolite–nanogold catalyst and their <i>in vitro</i> evaluation as anticancer agent. <i>Journal of Chemical Research</i> , 2021, 45, 679-686.	0.6	1
1037	Enhanced Photocatalytic Activity of CuWO ₄ Doped TiO ₂ Photocatalyst Towards Carbamazepine Removal under UV Irradiation. <i>Separations</i> , 2021, 8, 25.	1.1	26
1038	Influence of Alumina Precursor Properties on Cu-Fe Alumina Supported Catalysts for Total Toluene Oxidation as a Model Volatile Organic Air Pollutant. <i>Catalysts</i> , 2021, 11, 252.	1.6	6
1039	Kinetic and Isotherm Study of As(III) Removal from Aqueous Solution by PET Track-Etched Membranes Loaded with Copper Microtubes. <i>Membranes</i> , 2021, 11, 116.	1.4	14
1040	Research progress on the carcinogenicity of metal nanomaterials. <i>Journal of Applied Toxicology</i> , 2021, 41, 1334-1344.	1.4	12
1041	Interface engineering of MoS ₂ /Cu heterostructures toward highly selective electrochemical reduction of carbon dioxide into acetate. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119426.	10.8	82

#	ARTICLE	IF	CITATIONS
1042	Bimetal CuFe Nanoparticlesâ€”Synthesis, Properties, and Applications. Applied Sciences (Switzerland), 2021, 11, 1978.	1.3	9
1043	Development of inexpensive, simple and environment-friendly solar selective absorber using copper nanoparticle. International Journal of Chemical Reactor Engineering, 2021, 19, 727-737.	0.6	4
1044	The Efficient Removal of Methylene Blue Dye Using CuO/PET Nanocomposite in Aqueous Solutions. Catalysts, 2021, 11, 241.	1.6	23
1045	Preparation of Copper Nanoparticles by Green Biosynthesis Method: A Short Review. IOP Conference Series: Materials Science and Engineering, 2021, 1051, 012084.	0.3	2
1046	Singleâ€”Atom Catalysts: A Sustainable Pathway for the Advanced Catalytic Applications. Small, 2021, 17, e2006473.	5.2	135
1047	Synthesis of Air-Stable Cu Nanoparticles Using Laser Reduction in Liquid. Nanomaterials, 2021, 11, 814.	1.9	12
1048	Catalytic study of the copper-based magnetic nanocatalyst on the aerobic oxidation of alcohols in water. Research on Chemical Intermediates, 2021, 47, 2527.	1.3	3
1049	Effective and Stable Zeolite Imidazole Framework-Supported Copper Nanoparticles (Cu/ZIF-8) for Glycerol to Lactic Acid. Catalysis Letters, 2022, 152, 172-186.	1.4	15
1050	Structural Properties and Antimicrobial Activities of Polyalthia longifolia Leaf Extract-Mediated CuO Nanoparticles. BioNanoScience, 2021, 11, 579-589.	1.5	65
1051	Echinus-like Cuâ€”Mo ₂ C/C yolk-shell composites for ultrasensitive detection of hydrogen peroxide. Electrochimica Acta, 2021, 373, 137908.	2.6	17
1052	Transition-metal catalyzed carboxylation of organoboron compounds with CO ₂ . Journal of CO ₂ Utilization, 2021, 45, 101403.	3.3	24
1053	Facile single-step synthesis of Cu-rGO nanocomposite through simultaneous reduction process and its peroxidase mimic activity. Journal of Industrial and Engineering Chemistry, 2021, 95, 388-396.	2.9	9
1054	Multifunctional core-shell Pd@Cu on MoS ₂ as a visible light-harvesting photocatalyst for synthesis of disulfide by S S coupling. Applied Catalysis A: General, 2021, 613, 118025.	2.2	21
1055	Deposition of Cubic Copper Nanoparticles on Silicon Laser-Induced Periodic Surface Structures via Reactive Laser Ablation in Liquid. Langmuir, 2021, 37, 3740-3750.	1.6	11
1056	Robust and Versatile Cu(I) metal frameworks as potential catalysts for azide-alkyne cycloaddition reactions: Review. Molecular Catalysis, 2021, 504, 111432.	1.0	27
1057	MgO nanoparticles: Synthesis, characterization, and applications as a catalyst for organic transformations. European Journal of Chemistry, 2021, 12, 86-108.	0.3	24
1058	[Cu ₁₅ (PPh ₃) ₃ (PET) ₁₃] ²⁺ : a Copper Nanocluster with Crystallization Enhanced Photoluminescence. Small, 2021, 17, e2006839.	5.2	50
1059	Synthesis of nanomaterial from industrial waste and its application in environmental pollutant remediation. Environmental Engineering Research, 2022, 27, 200672-0.	1.5	11

#	ARTICLE	IF	CITATIONS
1060	Copper micro/nanoparticles based catalytic conversion of 4-nitrobenzaldehyde to 4-nitrobenzoic acid. Nano Express, 2021, 2, 010030.	1.2	0
1061	Microwave-Induced Expeditious Synthesis of Biologically Active Substituted Imidazoles using CuO-TiO ₂ -GO Nanocomposite as a Recyclable Catalyst. Letters in Organic Chemistry, 2021, 18, 318-333.	0.2	2
1062	Synergistic catalysis of cluster and atomic copper induced by copper-silica interface in transfer-hydrogenation. Nano Research, 2021, 14, 4601-4609.	5.8	12
1063	Toxic Effect of Metal-Based Nanomaterials on Representatives of Marine Ecosystems: A Review. Nanobiotechnology Reports, 2021, 16, 138-154.	0.2	8
1064	Copper Oxide Nanoparticles Alter Serum Biochemical Indices, Induce Histopathological Alterations, and Modulate Transcription of Cytokines, HSP70, and Oxidative Stress Genes in Oreochromis niloticus. Animals, 2021, 11, 652.	1.0	26
1065	Dissolution of brominated epoxy resin for environment friendly recovery of copper as cupric oxide nanoparticles from waste printed circuit boards using ammonium chloride roasting. Journal of Cleaner Production, 2021, 291, 125928.	4.6	31
1066	Water-Soluble Copper Ink for the Inkjet Fabrication of Flexible Electronic Components. Materials, 2021, 14, 2218.	1.3	8
1067	Oxygen Bridged Bimetallic CuMoO ₄ Nanocatalyst for Benzylic Alcohol Oxidation; Mechanism and DFT Study. Asian Journal of Organic Chemistry, 2021, 10, 1117-1122.	1.3	7
1068	PLA-Cu reinforced composite filament: preparation and flexural property printed at different machining conditions. Advanced Composite Materials, 2022, 31, 102-117.	1.0	6
1069	Structural Transformation from Low-Coordinated Oxides to High-Coordinated Oxides during the Oxidation of Cu Nanoparticles. Journal of Physical Chemistry C, 2021, 125, 8759-8766.	1.5	14
1070	The surface restructuring of copper oxides with mixed oxidation-states and their efficient CO oxidation properties. Materials Letters, 2021, 289, 129378.	1.3	6
1071	Employing Nanosilver, Nanocopper, and Nanoclays in Food Packaging Production: A Systematic Review. Coatings, 2021, 11, 509.	1.2	24
1072	Synthesis of Cu@HBP-SH@Ag Particles by Using Thiol-Terminated Hyperbranched Polymer as Template and Dispersant. Journal of Electronic Materials, 2021, 50, 3222-3227.	1.0	0
1073	Mechanochemical Preparation of Magnetically Separable Fe and Cu-Based Bimetallic Nanocatalysts for Vanillin Production. Nanomaterials, 2021, 11, 1050.	1.9	2
1074	Effect of sodium oxalate on the intensity of surface resonance plasmon of the copper nanoparticles used as substrates for the synthesis of ultrasmall Cu-Pt nanoparticles and the study of their catalytic activity on the oxygen reduction in acid electrolyte. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 615, 126283.	2.3	1
1075	Cu Nanocluster-Loaded TiO ₂ Nanosheets for Highly Efficient Generation of CO-Free Hydrogen by Selective Photocatalytic Dehydrogenation of Methanol to Formaldehyde. ACS Applied Materials & Interfaces, 2021, 13, 18619-18626.	4.0	21
1076	Magnetic force effects on peristaltic transport of hybrid bio-nanofluid (Au Cu nanoparticles) with moderate Reynolds number: An expanding horizon. International Communications in Heat and Mass Transfer, 2021, 123, 105228.	2.9	131
1077	Antimicrobial Nano-Agents: The Copper Age. ACS Nano, 2021, 15, 6008-6029.	7.3	198

#	ARTICLE	IF	CITATIONS
1078	General Synthesis of Amorphous PdM (M = Cu, Fe, Co, Ni) Alloy Nanowires for Boosting HCOOH Dehydrogenation. Nano Letters, 2021, 21, 3458-3464.	4.5	48
1079	Interfacial Design to Enhance Photocatalytic Hydrogen Evolution via Optimizing Energy and Mass Flows. ACS Applied Materials & Interfaces, 2021, 13, 21207-21216.	4.0	9
1080	Exceptional Catalytic Activity of Cu ²⁺ /Zn/ZrO ₂ Mixed Metal Oxide towards the Oxidation Reaction. ChemistrySelect, 2021, 6, 3814-3821.	0.7	3
1081	Understanding the Solution-Phase Growth of Cu and Ag Nanowires and Nanocubes from First Principles. Langmuir, 2021, 37, 4419-4431.	1.6	11
1082	Enhanced C ₂ and C ₃ Product Selectivity in Electrochemical CO ₂ Reduction on Carbon-Doped Copper Oxide Catalysts Prepared by Deep Eutectic Solvent Calcination. Catalysts, 2021, 11, 542.	1.6	4
1083	Nafion-coated copper oxide porous hollow structures modified glassy carbon electrode for non-enzymatic detection of H ₂ O ₂ . Journal of Applied Electrochemistry, 2021, 51, 1071-1081.	1.5	1
1084	Synthesis of environmentally benign ultra-small copper nanoclusters-halloysite composites and their catalytic performance on contrasting azo dyes. Applied Surface Science, 2021, 546, 149122.	3.1	27
1085	Bacterial extracellular electron transfer: a powerful route to the green biosynthesis of inorganic nanomaterials for multifunctional applications. Journal of Nanobiotechnology, 2021, 19, 120.	4.2	48
1086	Copper species supported in polysaccharide-based materials: from preparation to application in catalysis. Catalysis Reviews - Science and Engineering, 0, , 1-66.	5.7	4
1087	Decoupled Cu ²⁺ /Zn/ZrO ₂ Mixed Metal Oxide towards the Oxidation Reaction. ChemistrySelect, 2021, 6, 3814-3821.	0.7	3
1088	Carbon and Oxygen Coordinating Atoms Adjust Transition Metal Single-Atom Catalysts Based On Boron Nitride Monolayers for Highly Efficient CO ₂ Electroreduction. ACS Applied Materials & Interfaces, 2021, 13, 18934-18943.	4.0	13
1089	Transition-metal-catalyzed dehydrogenative coupling of alcohols and amines: A novel and atom-economical access to amides. Journal of the Chinese Chemical Society, 2021, 68, 723-737.	0.8	25
1090	Bimetallic Copper-Iron Oxide Nanoparticle-Coated Leathers for Lighting Applications. ACS Applied Nano Materials, 2021, 4, 4055-4069.	2.4	10
1091	Self-Assembly of a Linear Alkylamine Bilayer around a Cu Nanocrystal: Molecular Dynamics. Journal of Physical Chemistry B, 2021, 125, 4178-4186.	1.2	2
1092	Low-Temperature H ₂ Reduction of Copper Oxide Subnanoparticles. Chemistry - A European Journal, 2021, 27, 8410-8410.	1.7	1
1093	Engineering of Microcage Carbon Nanotube Architectures with Decoupled Multimodal Porosity and Amplified Catalytic Performance. Advanced Materials, 2021, 33, e2008307.	11.1	9
1094	Copper-Based Plasmonic Catalysis: Recent Advances and Future Perspectives. Advanced Materials, 2021, 33, e2008145.	11.1	131
1095	In-situ reduced non-oxidized copper nanoparticles in nanocomposites with extraordinary high electrical and thermal conductivity. Materials Today, 2021, 48, 59-71.	8.3	18

#	ARTICLE	IF	CITATIONS
1096	Recent developments of supported and magnetic nanocatalysts for organic transformations: an up-to-date review. <i>Applied Nanoscience (Switzerland)</i> , 2023, 13, 15-63.	1.6	18
1097	Towards Computer-Aided Graphene Covered TiO ₂ -Cu/(Cu _x O _y) Composite Design for the Purpose of Photoinduced Hydrogen Evolution. <i>Catalysts</i> , 2021, 11, 698.	1.6	3
1098	Bio-DEE Synthesis and Dehydrogenation Coupling of Bio-Ethanol to Bio-Butanol over Multicomponent Mixed Metal Oxide Catalysts. <i>Catalysts</i> , 2021, 11, 660.	1.6	6
1099	Low-temperature H ₂ Reduction of Copper Oxide Subnanoparticles. <i>Chemistry - A European Journal</i> , 2021, 27, 8452-8456.	1.7	16
1100	CO ₂ Self-Poisoning and Its Mitigation in CuO Catalyzed CO Oxidation: Determining and Speeding up the Rate-Determining Step. <i>Catalysts</i> , 2021, 11, 654.	1.6	2
1101	Inhibition efficiency and adsorption mechanism of 4-aminobenzoic acid for copper corrosion in nitric acid medium: a combined experimental and theoretical investigation. <i>Structural Chemistry</i> , 2021, 32, 2183-2198.	1.0	2
1102	Synthesis and Characterization of Size-Controlled Titania Nanorods through Double Surfactants. <i>Inorganic Chemistry</i> , 2021, 60, 7952-7960.	1.9	3
1103	Novel cuprous oxide morphologies using amino acids and carboxylic acids as structure directing agents in a simple hydrothermal method. <i>Materials Letters</i> , 2021, 292, 129553.	1.3	3
1104	Environmentally friendly synthesis of Cr ₂ O ₃ nanoparticles: Characterization, applications and future perspective – a review. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 3, 100089.	2.9	97
1106	Electrosynthesis of hierarchical Cu ₂ O@Cu(OH) ₂ nanodendrites supported on carbon nanofibers/poly(para-phenylenediamine) nanocomposite as high-efficiency catalysts for methanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19926-19938.	3.8	16
1107	Synthesis, application and catalytic performance of layered double hydroxide based catalysts in advanced oxidation processes for wastewater decontamination: A review. <i>Chemical Engineering Journal</i> , 2021, 414, 128713.	6.6	96
1108	Combustion synthesis CuO nanoparticles: Application to photocatalytic activity. <i>Materials Today: Proceedings</i> , 2022, 49, 860-864.	0.9	6
1109	The impact of China's import ban on global copper scrap flow network and the domestic copper sustainability. <i>Resources, Conservation and Recycling</i> , 2021, 169, 105525.	5.3	16
1110	Confined Unimolecular Micelles for Precisely Controlled In Situ Synthesis of Stable Ultrasmall Metal Nanocluster Assemblies. <i>Chemistry of Materials</i> , 2021, 33, 5067-5075.	3.2	20
1111	Anaerobic fermentation metabolism of <i>Moorella thermoacetica</i> inhibited by copper nanoparticles: Comprehensive analyses of transcriptional response and enzyme activity. <i>Water Research</i> , 2021, 197, 117081.	5.3	27
1112	Statistical analysis of thermal conductivity experimentally measured in water-based nanofluids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, .	1.0	3
1113	Water Splitting Induced by Visible Light at a Copper-Based Single-Molecule Junction. <i>Small</i> , 2021, 17, e2008109.	5.2	3
1114	Chemodynamic nanomaterials for cancer theranostics. <i>Journal of Nanobiotechnology</i> , 2021, 19, 192.	4.2	51

#	ARTICLE	IF	CITATIONS
1115	Low temperature and low pressure die-attach bonding of high power light emitting diodes with self reducing copper complex paste. , 2021, , .		1
1116	In Situ Regeneration of Copper-Coated Gas Diffusion Electrodes for Electroreduction of CO ₂ to Ethylene. Materials, 2021, 14, 3171.	1.3	5
1117	A vanadium-centered tungstovanadate modified by copper-azole: Synthesis, structure and electrocatalytic property. Journal of Molecular Structure, 2021, 1233, 130109.	1.8	1
1118	In-situ electrochemical co-deposition of bimetallic CuCo nanoparticles on cubic mesoporous carbon for ultrasensitive electrochemical sensing of cyadox. Electrochimica Acta, 2021, 380, 138128.	2.6	7
1119	Promoting Effect of Ce Doping on the CuZn/ZnAl ₂ O ₄ Catalysts for Methanol Decomposition to Hydrogen and Carbon Monoxide. Catalysis Letters, 2022, 152, 1109-1118.	1.4	2
1120	A Facile Synthetic Approach for Cu(OH) ₂ -Cu ₂ O Heterostructure: A Stable Catalyst for Pollutant Degradation. Transactions of the Indian Ceramic Society, 2021, 80, 118-126.	0.4	0
1121	Cu(I)-Catalyzed Click Chemistry in Glycoscience and Their Diverse Applications. Chemical Reviews, 2021, 121, 7638-7956.	23.0	197
1122	Carbonâ€“nitrogen bond formation using modified graphene oxide derivatives decorated with copper complexes and nanoparticles. Applied Organometallic Chemistry, 2021, 35, e6327.	1.7	5
1123	Reviewâ€“Multifunctional Copper Nanoparticles: Synthesis and Applications. ECS Journal of Solid State Science and Technology, 2021, 10, 063011.	0.9	28
1124	Facile synthesis of copper oxide nanoparticlesâ€“decorated polyaniline nanofibers with enhanced electrochemical performance as supercapacitor electrode. Polymers for Advanced Technologies, 2021, 32, 4070-4081.	1.6	20
1125	[Cu ₃₆ H ₁₀ (PET) ₂₄ (PPh ₃) ₆ Cl ₂] Reveals Surface Vacancy Defects in Ligand-Stabilized Metal Nanoclusters. Journal of the American Chemical Society, 2021, 143, 11026-11035.	6.6	46
1126	A novel method to prepare copper microspheres via chemical reduction route. Journal of Materials Research and Technology, 2021, 13, 1254-1265.	2.6	7
1127	Rational Design of Self-Supported CuO _x -Decorated Composite Films as an Efficient and Easy-Recycling Catalyst for Styrene Oxidation. ACS Omega, 2021, 6, 18157-18168.	1.6	0
1128	Eco-Friendly Synthesis of SnO ₂ -Cu Nanocomposites and Evaluation of Their Peroxidase Mimetic Activity. Nanomaterials, 2021, 11, 1798.	1.9	14
1129	How Chemosensitive Sensors Can Learn from Heterogeneous Catalysis. Hints, Issues, and Perspectives. Chemosensors, 2021, 9, 193.	1.8	6
1130	Polyoxometalate Clusters: Inorganic Ligands for Functional Materials. Journal of Cluster Science, 2022, 33, 1839-1856.	1.7	9
1131	Unraveling reaction pathways for tuning bimetallic nanoparticle structures: role of reactant addition sequence. Journal of Nanoparticle Research, 2021, 23, 1.	0.8	5
1132	Biogenic synthesis, in-vitro cytotoxicity, esterase activity and interaction studies of copper oxide nanoparticles with lysozyme. Journal of Materials Research and Technology, 2021, 13, 2066-2077.	2.6	19

#	ARTICLE	IF	CITATIONS
1133	An Efficient and Rapid Synthesis of 1,4-Dihydropyrano[2,3-c]Pyran and 1,4-Dihydropyrano[2,3-c]Quinoline Derivatives Using Copper Nanoparticles Grafted on Carbon Microspheres. Polycyclic Aromatic Compounds, 2022, 42, 4635-4643.	1.4	5
1134	A critical review on efficient photocatalytic degradation of organic compounds using copper-based nanoparticles. Materials Today: Proceedings, 2021, , .	0.9	4
1135	Hydrogenation of Cinnamaldehyde on Cu(110) Single-Crystal Surfaces. Journal of Physical Chemistry C, 2021, 125, 14709-14717.	1.5	10
1136	Insights on the Catalytic Active Site for CO ₂ Reduction on Copper-based Catalyst: A DFT study. Molecular Catalysis, 2021, 511, 111725.	1.0	9
1137	Electrochemical Behavior and Electronucleation of Copper Nanoparticles from CuCl ₂ ·2H ₂ O Using a Choline Chloride-Urea Eutectic Mixture. Journal of Nanomaterials, 2021, 2021, 1-14.	1.5	3
1138	Synthesis of copper oxides-graphene composites for glucose sensing. Carbon Trends, 2021, 4, 100050.	1.4	10
1139	Ultrasound assisted Fenton-like degradation of dyes using copper doped graphitic carbon nitride. Water Science and Technology, 2021, 84, 1146-1158.	1.2	12
1140	Ultrafast epitaxial growth of CuO nanowires using atmospheric pressure plasma with enhanced electrocatalytic and photocatalytic activities. Nano Select, 2022, 3, 627-642.	1.9	3
1141	Melamine assisted large-scale and rapid synthesis of porous copper oxide nanostructures. Emergent Materials, 2022, 5, 1089-1096.	3.2	7
1142	Control of copper nanoparticle metallization on electrospun fibers via Pd and Ag seed-assisted templating. Journal of Materials Science, 2021, 56, 16307-16323.	1.7	1
1143	Green Fabrication of Cu ₂ O@BSA Nanoparticles, Characterization and Formation Mechanism. Integrated Ferroelectrics, 2021, 218, 215-224.	0.3	0
1144	Organoselenium ligand-stabilized copper nanoparticles: Development of a magnetically separable catalytic system for efficient, room temperature and aqueous phase reduction of nitroarenes. Inorganica Chimica Acta, 2021, 522, 120267.	1.2	21
1145	Facile synthesis of metal and alloy nanoparticles by ultrasound-assisted dealloying of metallic glasses. Journal of Materials Science and Technology, 2021, 82, 144-152.	5.6	8
1146	Structuring efficient photocatalysts into bespoke fiber shaped systems for applied water treatment. Chemosphere, 2021, 277, 130253.	4.2	3
1147	Structural and morphological aspects of transformation of aurichalcite precursor into zinc copper mixed metal oxide: An experimental investigation. Materialia, 2021, 18, 101173.	1.3	0
1148	Electrocatalytic Reduction of NO ₃ ⁻ to Ultrapure Ammonia on {200} Facet Dominant Cu Nanodendrites with High Conversion Faradaic Efficiency. Journal of Physical Chemistry Letters, 2021, 12, 8121-8128.	2.1	39
1149	Tip-Enhanced Raman Analysis of Plasmonic and Photocatalytic Properties of Copper Nanomaterials. Journal of Physical Chemistry Letters, 2021, 12, 8335-8340.	2.1	12
1150	Optimized synthesis of novel hydroxyapatite/CuO/TiO ₂ nanocomposite with high antibacterial activity against oral pathogen Streptococcus mutans. Ceramics International, 2021, 47, 33398-33404.	2.3	16

#	ARTICLE	IF	CITATIONS
1151	Glycerol Valorization over ZrO ₂ -Supported Copper Nanoparticles Catalysts Prepared by Chemical Reduction Method. Catalysts, 2021, 11, 1040.	1.6	5
1152	A novel in situ grown Cu-ZnO-ZrO ₂ /HZSM-5 hybrid catalyst for CO ₂ hydrogenation to liquid fuels of methanol and DME. Journal of Environmental Chemical Engineering, 2021, 9, 105299.	3.3	26
1153	Synthesis of Copper Nanoparticles Stabilized with Organic Ligands and Their Antimicrobial Properties. Polymers, 2021, 13, 2846.	2.0	12
1154	Photothermocatalytic Removal of CO and Formaldehyde with Excellent Water Vapor Stability over Dual-Functional Copper Loading on TiO ₂ Synthesized via Flame Spray Pyrolysis. Solar Rrl, 2021, 5, 2100490.	3.1	9
1155	A Reusable Efficient Green Catalyst of 2D Cu-MOF for the Click and Knoevenagel Reaction. Molecules, 2021, 26, 5296.	1.7	10
1156	Monodisperse Cu Cluster-Loaded Defective ZrO ₂ Nanofibers for Ambient N ₂ Fixation to NH ₃ . ACS Applied Materials & Interfaces, 2021, 13, 40724-40730.	4.0	13
1157	Green Synthesis of Cu Nanoparticles in Modulating the Reactivity of Amine-Functionalized Composite Materials towards Cross-Coupling Reactions. Nanomaterials, 2021, 11, 2260.	1.9	1
1158	Copper Oxide Nanocubes Wrapping Metals by Microwave Synthesis. Crystal Growth and Design, 2021, 21, 5027-5035.	1.4	11
1159	Green Synthesized Cu@Carbon Quantum Dots for Histidine and Arsenate Sensing. IEEE Sensors Journal, 2021, 21, 16464-16468.	2.4	2
1160	Laser synthesis of uncapped palladium nanocatalysts. Applied Surface Science, 2021, 557, 149811.	3.1	10
1161	Constructing Cu/BN@PANI ternary heterostructure for efficient photocatalytic hydrogen generation: A combined experimental and DFT studies. International Journal of Hydrogen Energy, 2021, 46, 27394-27408.	3.8	22
1162	Combustion-derived CuO nanoparticles: Application studies on lithium-ion battery and photocatalytic activities. Inorganic Chemistry Communication, 2021, 130, 108689.	1.8	17
1163	Remodeling of Tumor Microenvironment by Tumor-Targeting Nanozymes Enhances Immune Activation of CAR T Cells for Combination Therapy. Small, 2021, 17, e2102624.	5.2	36
1164	Synthesis of Copper Nanoparticles from Cu ²⁺ -Spiked Wastewater via Adsorptive Separation and Subsequent Chemical Reduction. Nanomaterials, 2021, 11, 2051.	1.9	6
1165	Copper nanoparticles (CuNPs) catalyzed chemoselective reduction of nitroarenes in aqueous medium. Journal of Chemical Sciences, 2021, 133, 1.	0.7	6
1166	Copper Rich Composite Materials Based on Carboxylic Cation Exchangers and Their Thermal Transformation. Polymers, 2021, 13, 3199.	2.0	2
1167	The importance of the shape of Cu ₂ O nanocrystals on plasmon-enhanced oxygen evolution reaction in alkaline media. Electrochimica Acta, 2021, 390, 138810.	2.6	11
1168	Cinnamaldehyde adsorption and thermal decomposition on copper surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, 053205.	0.9	3

#	ARTICLE	IF	CITATIONS
1169	Green synthesis of metal and metal-oxide nanoparticles pertinent to <i>Catharanthus roseus</i> and <i>Moringa oleifera</i> -A Review. <i>Current Nanomaterials</i> , 2021, 06, .	0.2	0
1170	Green synthesis of carbamates and amides via Cu@Sal-Cs catalyzed C=O and C=N oxidative coupling accelerated by microwave irradiation. <i>Scientific Reports</i> , 2021, 11, 18105.	1.6	7
1171	Aggregation-induced emission of copper nanoclusters. <i>Aggregate</i> , 2021, 2, e112.	5.2	40
1172	Rational design of free-standing 3D Cu-doped NiS@Ni ₂ P/NF nanosheet arrays for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 33078-33086.	3.8	10
1173	Engineering of CuO/ZrO ₂ nanocomposite-based electrochemical sensor for the selective detection of hydrogen peroxide. <i>Ionics</i> , 2021, 27, 5309-5322.	1.2	9
1174	Effects of Temperature on Enantiomerization Energy and Distribution of Isomers in the Chiral Cu ₁₃ Cluster. <i>Molecules</i> , 2021, 26, 5710.	1.7	8
1175	Bio-derived nanosilica-anchored Cu(II)-organoselenium complex as an efficient retrievable catalyst for alcohol oxidation. <i>Applied Organometallic Chemistry</i> , 0, , e6416.	1.7	1
1176	Rapid and highly sensitive colorimetric biosensor for the detection of glucose and hydrogen peroxide based on nanoporphyrin combined with bromine as a peroxidase-like catalyst. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130104.	4.0	16
1177	High-efficiency synthesis of Cu superfine particles via reducing cuprous and cupric oxides with monoethanolamine and their antimicrobial potentials. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 749-757.	5.0	2
1178	Hydrogen generation by methanol steam reforming process by delafossite-type CuYO ₂ nanopowder catalyst. <i>Microporous and Mesoporous Materials</i> , 2021, 324, 111305.	2.2	11
1179	Green Synthesis of Pyrazolo Pyrano Pyrimidine Derivatives Using ZnFe ₂ O ₄ /GA as a New Effective Catalyst in Water Media. <i>ChemistrySelect</i> , 2021, 6, 9608-9615.	0.7	5
1180	The enhanced photocatalytic activity of ZnO nanorods/CuO nanorhinos composite prepared by chemical bath precipitation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 271, 115262.	1.7	26
1181	N,N-Dimethylformamide-Assisted Shape Evolution of Highly Uniform and Shape-Pure Colloidal Copper Nanocrystals. <i>Small</i> , 2021, 17, e2103302.	5.2	5
1182	Recent advances in nanoparticles mediated photothermal therapy induced tumor regression. <i>International Journal of Pharmaceutics</i> , 2021, 606, 120848.	2.6	67
1183	Preparation of Cu Nanowires and Thermal Oxidation Behavior in Dry Oxygen. <i>Surface Innovations</i> , 0, , 1-8.	1.4	1
1184	Plasmon-driven engineering in bimetallic CuCo combined with reduced graphene oxide for photocatalytic overall water splitting. <i>Applied Surface Science</i> , 2021, 559, 149865.	3.1	10
1185	MOF/PCP-based Electrocatalysts for the Oxygen Reduction Reaction. <i>Electrochemical Energy Reviews</i> , 2022, 5, 32-81.	13.1	47
1186	Impact and Shear Behavior of PLA/12%Cu Reinforced Composite Filament Printed at Different FDM Conditions. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 12709-12720.	1.7	9

#	ARTICLE	IF	CITATIONS
1187	High-performance water purification and desalination by solar-driven interfacial evaporation and photocatalytic <scp>VOC</scp> decomposition enabled by hierarchical <scp> TiO ₂ @CuO</scp> nanoarchitecture. International Journal of Energy Research, 2022, 46, 1313-1326.	2.2	21
1188	Atmospheric pressure plasma engineered superhydrophilic CuO surfaces with enhanced catalytic activities. Applied Surface Science, 2021, 564, 150413.	3.1	9
1189	Synthesis of copper nanoparticles with controllable crystallinity and their photothermal property. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 126970.	2.3	18
1190	A combined oxidation and salt-thermal approach to converting copper scraps to copper oxides as energy storage materials. Journal of Cleaner Production, 2021, 320, 128870.	4.6	3
1191	Syntheses, characterization and oxygen evolution reaction (OER) electrocatalytic properties of M(II) based bromo-salophen complexes. Journal of Molecular Structure, 2021, 1243, 130928.	1.8	5
1192	Preparation of fluorescent bimetallic silver/copper nanoparticles and their utility of dual-mode fluorimetric and colorimetric probe for Hg ²⁺ . Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 261, 120035.	2.0	22
1193	Binary CuO/TiO ₂ nanocomposites as high-performance catalysts for tandem hydrogenation of nitroaromatics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 629, 127383.	2.3	14
1194	CuCeOx/β-Al ₂ O ₃ catalyst for low temperature dimethyl ether partial oxidation to hydrogen-rich gas. Materials Letters, 2021, 302, 130345.	1.3	2
1195	Copper-comprising nanocrystals as well-defined electrocatalysts to advance electrochemical CO ₂ reduction. Journal of Energy Chemistry, 2021, 62, 71-102.	7.1	26
1196	Photocatalytic performance of coupled semiconductor ZnO@CuO nanocomposite coating prepared by a facile brass anodization process. Materials Science in Semiconductor Processing, 2021, 135, 106083.	1.9	38
1197	A composite having a porous substrate and polyhedral Cu-Fe oxide nanoparticles showing high catalytic activity during the steam reforming of methanol at low temperatures. Journal of Alloys and Compounds, 2021, 885, 160854.	2.8	13
1198	Nanostructured TiO ₂ photocatalyst modified with Cu for improved imidacloprid degradation. Applied Surface Science, 2021, 569, 151026.	3.1	11
1199	Cu-O-incorporation design for promoted heterogeneous catalysis: synergistic effect of surface adsorption and catalysis towards efficient bisphenol A removal. Applied Surface Science, 2021, 569, 151107.	3.1	8
1200	Nonenzymatic electrochemical sensors via Cu native oxides (CuNO _x) for sweat glucose monitoring. Sensing and Bio-Sensing Research, 2021, 34, 100453.	2.2	15
1201	In-situ synthesis of highly dispersed Cu-Cu _x O nanoparticles on porous carbon for the enhanced persulfate activation for phenol degradation. Separation and Purification Technology, 2021, 276, 119260.	3.9	36
1202	Recent advances in the nanoparticles synthesis using plant extract: Applications and future recommendations. Journal of Molecular Structure, 2022, 1248, 131538.	1.8	38
1203	Effect of clay colloid @ CuO nanoparticles interaction on retention of nanoparticles in different types of soils: role of clay fraction and environmental parameters. Environmental Research, 2022, 203, 111885.	3.7	4
1204	Activity, selectivity, and stability of earth-abundant CuO/Cu ₂ O/CuO-based photocatalysts toward CO ₂ reduction. Chemical Engineering Journal, 2022, 429, 131579.	6.6	67

#	ARTICLE	IF	CITATIONS
1205	Directing two copper porphyrin based polymers as highly efficient heterogeneous catalysts for styrene oxidation. <i>Applied Surface Science</i> , 2022, 571, 151363.	3.1	5
1206	Nanostage Alloying of Metals in Liquid Phase. <i>Advances in Chemical Engineering and Science</i> , 2021, 11, 105-140.	0.2	2
1207	Plasmonic triangular nanoprism sensors. <i>Materials Advances</i> , 2021, 2, 32-46.	2.6	14
1208	Phytogenic synthesis of manganese dioxide nanoparticles using plant extracts and their biological application. , 2021, , 209-218.		4
1209	Green biomimetic synthesis of Ag@TiO ₂ nanocomposite using <i>Origanum majorana</i> leaf extract under sonication and their biological activities. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	2.0	79
1210	Copper-alloy catalysts: structural characterization and catalytic synergies. <i>Catalysis Science and Technology</i> , 2021, 11, 5712-5733.	2.1	13
1211	The catalytic dehydrogenation of ethanol by heterogeneous catalysts. <i>Catalysis Science and Technology</i> , 2021, 11, 1652-1664.	2.1	31
1212	Spectrophotometric Determination of p-Nitrophenol under ENP Interference. <i>Journal of Analytical Methods in Chemistry</i> , 2021, 2021, 1-9.	0.7	18
1213	<i>In situ</i> STEM study on the morphological evolution of copper-based nanoparticles during high-temperature redox reactions. <i>Nanoscale</i> , 2021, 13, 9747-9756.	2.8	16
1214	The effect of supports on hydrogenation and water-tolerance of copper-based catalysts. <i>New Journal of Chemistry</i> , 2021, 45, 9967-9974.	1.4	4
1215	Defect engineering: an effective tool for enhancing the catalytic performance of copper-MOFs for the click reaction and the A ³ coupling. <i>Catalysis Science and Technology</i> , 2021, 11, 2396-2402.	2.1	20
1216	Shape control in seed-mediated synthesis of non-elongated Cu nanoparticles and their optical properties. <i>Nanoscale</i> , 2021, 13, 12505-12512.	2.8	7
1217	Research and application of a non-noble metal catalyst in the removal of trace olefins from aromatics. <i>New Journal of Chemistry</i> , 2021, 45, 3901-3908.	1.4	3
1218	Morphology Changes of Cu ₂ O Nanoshells in the Photocatalysis. <i>Current Nanoscience</i> , 2021, 17, .	0.7	0
1219	Impact of copper oxide particle dissolution on lung epithelial cell toxicity: response characterization using global transcriptional analysis. <i>Nanotoxicology</i> , 2021, 15, 380-399.	1.6	12
1220	Copper-Induced Responses in Different Plant Species. , 2021, , 259-280.		3
1221	Preparation of Cu@Cu ₂ O@CuO by solid combustion ignited by dielectric barrier discharge and its activity towards p-nitrophenol reduction. <i>New Journal of Chemistry</i> , 2021, 45, 1309-1316.	1.4	4
1222	Microdroplet confined assembly enabling the scalable synthesis of titania supported ultrasmall low-valent copper catalysts for efficient photocatalytic activation of peroxydisulfate. <i>Nanoscale</i> , 2021, 13, 13764-13775.	2.8	9

#	ARTICLE	IF	CITATIONS
1223	Zeolite Immobilized Copper Catalyzed Conjugate Borylation of α,β -Unsaturated Compounds in Aqueous Media. Chinese Journal of Organic Chemistry, 2021, , 2074.	0.6	2
1224	Plant-based green synthesis and applications of cuprous oxide nanoparticles. , 2021, , 201-208.		3
1225	Biogenic nanoparticles: synthesis, mechanism, characterization and applications. , 2021, , 27-42.		4
1226	Modulation of Cu and Rh single-atoms and nanoparticles for high-performance hydrogen evolution activity in acidic media. Journal of Materials Chemistry A, 2021, 9, 10326-10334.	5.2	70
1227	The Hallmarks of Copper Single Atom Catalysts in Direct Alcohol Fuel Cells and Electrochemical CO ₂ Fixation. Advanced Materials Interfaces, 2021, 8, 2001822.	1.9	43
1228	Copper(α) oxide nanoparticle-mediated C–C couplings for synthesis of polyphenylenediethynylenes: evidence for a homogeneous catalytic pathway. Catalysis Science and Technology, 2021, 11, 2414-2421.	2.1	10
1229	Theoretical investigation of defective MXenes as potential electrocatalysts for CO reduction toward C ₂ products. Physical Chemistry Chemical Physics, 2021, 23, 12431-12438.	1.3	11
1230	Fast and simple approach for production of antibacterial nanocellulose/cuprous oxide hybrid films. Cellulose, 2021, 28, 2931-2945.	2.4	9
1231	Sulfur-stabilised copper nanoparticles for the aerobic oxidation of amines to imines under ambient conditions. Journal of Materials Chemistry A, 2021, 9, 11312-11322.	5.2	13
1232	A self-supported NiCo ₂ O ₄ /Cu _x O nanoforest with electronically modulated interfaces as an efficient electrocatalyst for overall water splitting. Journal of Materials Chemistry A, 2021, 9, 14466-14476.	5.2	52
1233	Synthesis and antibacterial potential of hybrid nanocomposites based on polyorthochloroaniline/copper nanofiller. Polymer Composites, 2018, 39, 4524-4531.	2.3	12
1234	Magnetic Nanoparticle Nanoformulations for Alternative Therapy of Cancer by Magnetic/Superparamagnetic Hyperthermia. , 2020, , 503-530.		4
1235	Microbial Synthesis of Nanoparticles and Their Applications for Wastewater Treatment. Environmental and Microbial Biotechnology, 2020, , 147-187.	0.4	12
1236	Antibacterial Carbon Nanotubes by Impregnation with Copper Nanostructures. Jom, 2017, 69, 1319-1324.	0.9	8
1237	Nanoengineered textiles: from advanced functional nanomaterials to groundbreaking high-performance clothing. , 2020, , 611-714.		11
1238	Plasmon-induced interfacial charge-transfer transition prompts enhanced CO ₂ photoreduction over Cu/Cu ₂ O octahedrons. Chemical Engineering Journal, 2020, 397, 125390.	6.6	65
1239	Mesoporous silica @plated-copper hydroxides/oxides heterostructures as superior regenerable sorbents for low temperature H ₂ S removal. Chemical Engineering Journal, 2020, 398, 125585.	6.6	20
1240	Enzyme-mimetic activity of sugar cane juice stabilized CuO nanospheres and CuO/GO nanocomposite: Green synthesis and applications. Colloids and Interface Science Communications, 2020, 35, 100239.	2.0	16

#	ARTICLE	IF	CITATIONS
1241	Particle size effects in copper-catalyzed hydrogenation of ethyl acetate. Journal of Catalysis, 2020, 388, 30-37.	3.1	32
1242	Oxygen vacancies enhanced cooperative electrocatalytic reduction of carbon dioxide and nitrite ions to urea. Journal of Colloid and Interface Science, 2020, 577, 109-114.	5.0	120
1243	Capture of iodine in solution and vapor phases by newly synthesized and characterized encapsulated Cu ₂ O nanoparticles into the TMU-17-NH ₂ MOF. Journal of Hazardous Materials, 2020, 399, 122872.	6.5	51
1244	Impact of CuO doping on the properties of CdO thin films on the catalytic degradation by using pulsed-Laser deposition technique. Optical Materials, 2020, 100, 109663.	1.7	88
1245	Kinetically Controlled Synthesis of Pd@Cu Janus Nanocrystals with Enriched Surface Structures and Enhanced Catalytic Activities toward CO ₂ Reduction. Journal of the American Chemical Society, 2021, 143, 149-162.	6.6	77
1246	Support Morphology-dependent Activity of Nanocatalysts. RSC Catalysis Series, 2019, , 84-114.	0.1	2
1247	Construction of a thermo-responsive polymer brush decorated Fe ₃ O ₄ @catechol-formaldehyde resin core-shell nanosphere stabilized carbon dots/PdNP nanohybrid and its application as an efficient catalyst. Journal of Materials Chemistry A, 2020, 8, 4017-4029.	5.2	34
1248	Greener synthesis of 1,2,3-triazoles using a copper(i)-exchanged magnetically recoverable β -zeolite as catalyst. New Journal of Chemistry, 2020, 44, 15046-15053.	1.4	6
1249	Synthesis of cetyl trimethyl ammonium bromide (CTAB) capped copper oxide nanocubes for the remediation of organic pollutants using photocatalysis and catalysis. Nanotechnology, 2021, 32, 105707.	1.3	6
1250	Growth and aggregation of Cu nanocrystals on ionic liquid surfaces. Chinese Physics B, 2020, 29, 066801.	0.7	3
1251	Novel 2D CaCl crystals with metallicity, room-temperature ferromagnetism, heterojunction, piezoelectricity-like property and monovalent calcium ions. National Science Review, 2021, 8, nwaa274.	4.6	16
1253	Biosynthesis of copper(II) oxide nanoparticles using Murayya koenigii aqueous leaf extract and its catalytic activity in 4-nitrophenol reduction. Malaysian Journal of Fundamental and Applied Sciences, 2019, 15, 218-224.	0.4	20
1254	86-...GHz Q-switched mode-locked waveguide lasing based on LiNbO ₃ crystal embedded Cu nanoparticles. Optical Materials Express, 2019, 9, 3808.	1.6	14
1255	Recent Advances in the Application of Nanometal Catalysts for Glaser Coupling. Current Organic Chemistry, 2020, 23, 2489-2503.	0.9	20
1256	Nano Copper Catalyzed Microwave Assisted Coupling of Benzene Boronic Acids with Thiophenols. Letters in Organic Chemistry, 2019, 16, 491-494.	0.2	6
1257	Hierarchical three-dimensional copper selenide nanocube microelectrodes for improved carbon dioxide reduction reactions. Sustainable Energy and Fuels, 2021, 5, 6430-6440.	2.5	6
1258	Application of biosynthesized metal nanoparticles in electrochemical sensors. Journal of the Serbian Chemical Society, 2022, 87, 401-435.	0.4	6
1259	Regression and clustering algorithms for AgCu nanoalloys: from mixing energy predictions to structure recognition. Physical Chemistry Chemical Physics, 2021, 23, 23325-23335.	1.3	11

#	ARTICLE	IF	CITATIONS
1260	Catalytic and photoresponsive BiZ/Cu _x S heterojunctions with surface vacancies for the treatment of multidrug-resistant clinical biofilm-associated infections. <i>Nanoscale</i> , 2021, 13, 18632-18646.	2.8	9
1261	Polyol-Assisted Synthesis of Copper Particles. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24887-24893.	1.5	5
1262	Effective ROS generation and morphological effect of copper oxide nanoparticles as catalysts. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	0.8	2
1263	Cu-based tri-metallic nanoparticles with noble metals (Ag, Pd, and Ir) and their catalytic activities for hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 39754-39767.	3.8	8
1264	Fenton/Fenton-like metal-based nanomaterials combine with oxidase for synergistic tumor therapy. <i>Journal of Nanobiotechnology</i> , 2021, 19, 325.	4.2	42
1265	One-Pot Surface Modification of Cu ₂ O NPs for Biocatalytic Performance against A-549 Lung Carcinoma Cell Lines through Docking Analysis. <i>ACS Omega</i> , 2021, 6, 29380-29393.	1.6	0
1266	Tetra metallic Copper Complex to Nanoscale Copper: Selective and Switchable Dehydrogenation-Hydrogenation under light. <i>Chemistry - A European Journal</i> , 2021, , .	1.7	0
1267	Pulsed Laser Ablation at Gas/Liquid/Solid Interfaces Controlled via Rotation of a Partially Submerged Disc. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22872-22882.	1.5	1
1268	Preparation of green synthesized copper oxide nanoparticles for efficient removal of lead from wastewaters. <i>International Journal of Phytoremediation</i> , 2022, 24, 855-866.	1.7	4
1269	Design, fabrication and investigation synergistic effects of M _x O _y .CuO (M: Pd, Zn, Mn, La) hollow spheres on alcohol oxidation reaction. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 129, 311-326.	2.7	2
1270	Electrochemical Synthesis of Multidimensional Nanoparticles and Their Photocatalytic Applications. , 2018, , 51-59.		0
1271	Studying the toxicity of molybdenum trioxide nanoparticles in male Wister rats. <i>Journal of Occupational Health and Epidemiology</i> , 2018, 7, 233-239.	0.1	1
1272	Antibacterial Activity of Copper Nanoparticles Fabricate via Malva Sylvesteris Leaf Extract. <i>Kurdistan Journal of Applied Research</i> , 0, , 146-156.	0.4	4
1273	Introduction to Nanocatalysts. <i>RSC Catalysis Series</i> , 2019, , 1-36.	0.1	5
1275	Copper and molybdenum dioxide co-doped octahedral porous carbon framework for high sensitivity electrochemical detection of hydrogen peroxide. <i>Ionics</i> , 2022, 28, 919-925.	1.2	2
1276	Recent developments in architecturing the g-C ₃ N ₄ based nanostructured photocatalysts: Synthesis, modifications and applications in water treatment. <i>Chemosphere</i> , 2022, 291, 132735.	4.2	51
1277	Influence of Annealing Atmospheres on Photoelectrochemical Activity of TiO ₂ Nanotubes Modified with AuCu Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52967-52977.	4.0	9
1278	Biochar-supported nanosized zero-valent iron (nZVI/BC) composites for removal of nitro and chlorinated contaminants. <i>Chemical Engineering Journal</i> , 2022, 431, 133187.	6.6	57

#	ARTICLE	IF	CITATIONS
1279	Synthesis of novel metal/bimetal nanoparticle-modified ZSM-5 zeolite nanocomposite catalysts and application on toluene methylation. Research on Chemical Intermediates, 2022, 48, 145-165.	1.3	3
1280	Adsorption and Decomposition of Sarin on Dry and Wet Cu ₂ O(111) and CuO(111) Surfaces: Insight from First-Principles Calculations. Journal of Physical Chemistry C, 2021, 125, 24396-24405.	1.5	6
1282	Green synthesis of submicron copper powder with narrow particle size distribution <i>via</i> a simple methanol thermal reduction. Dalton Transactions, 2021, 50, 17301-17307.	1.6	1
1283	Recent advances on endogenous/exogenous stimuli-triggered nanoplatforms for enhanced chemodynamic therapy. Coordination Chemistry Reviews, 2022, 451, 214267.	9.5	89
1284	Design and synthesis of nano Cu/chitosan-starch bio-composite for the treatment of human thyroid carcinoma. Arabian Journal of Chemistry, 2022, 15, 103465.	2.3	9
1285	Synthesis of Nanostructured Materials for Conversion of Fuels. ACS Symposium Series, 2020, , 189-206.	0.5	2
1286	In situ replacement of Cu-DEN: an approach for preparing a more noble metal nanocatalyst for catalytic use. New Journal of Chemistry, 2020, 44, 20322-20333.	1.4	2
1287	On the ultrasound-assisted preparation of Cu/SiO ₂ system as a selective catalyst for the conversion of biobutanol to butanal. Chemical Papers, 2022, 76, 1443-1455.	1.0	1
1288	An Overview of Strategic Non-Biological Approaches for The Synthesis of Cupper Nanoparticles. Acta Chemica Malaysia, 2021, 5, 24-37.	0.6	3
1289	Accelerated optimization of pure metal and ligand compositions for light-driven hydrogen production. Reaction Chemistry and Engineering, 2022, 7, 599-608.	1.9	6
1290	Preparation and photocatalytic degradation of methylene blue dye under LED light for porous and non-porous Cu balls. Colloids and Interface Science Communications, 2022, 46, 100553.	2.0	3
1291	Influence of different types of nanomaterials on soil enzyme activity: A global meta-analysis. Nano Today, 2022, 42, 101345.	6.2	23
1292	Cu@NiO bimetallic nanoparticles supported on graphitic carbon nitride with enhanced catalytic performance for the synthesis of 1,2,3-triazoles, bis-1,2,3-triazoles, and tetrazoles in parts per million level. Applied Organometallic Chemistry, 2022, 36, e6524.	1.7	6
1293	Cu/Ni-NiO _x Nanoparticles Distributed on Graphene as Catalysts for the Methanolysis of Ammonia Borane to Produce Hydrogen. ACS Applied Nano Materials, 2021, 4, 14208-14216.	2.4	11
1294	Influence of the volume of ascorbic acid in the synthesis of copper nanoparticles mediated by chemical pathway and its stability over time. IOP Conference Series: Earth and Environmental Science, 2021, 897, 012010.	0.2	0
1295	Catalytic Methods for the Production of Sugar Esters. Kataliz V Promyshlennosti, 2021, 21, 424.	0.2	0
1296	Influence of the Microstructure and Optical Constants on Plasmonic Properties of Copper Nanolayers. Materials, 2021, 14, 7292.	1.3	0
1297	Highly efficient photocatalytic overall water splitting on plasmonic Cu ₆ Sn ₅ /polyaniline nanocomposites. Journal of Colloid and Interface Science, 2022, 609, 785-793.	5.0	8

#	ARTICLE	IF	CITATIONS
1298	Thiol-Functionalized Cellulose Wrapped Copperoxide as a Green Nano Catalyst for Regiospecific Azide-Alkyne Cycloaddition Reaction: Application in Rufinamide Synthesis. Asian Journal of Organic Chemistry, 2021, 10, 3428-3433.	1.3	7
1299	Copper(II) Acetylacetonate/Tetrabutylammonium Hydrogen Sulfate: A New System for Decarboxylation of Aromatic Carboxylic Acids under Amine-Free Conditions. ChemistrySelect, 2021, 6, 11747-11752.	0.7	2
1300	Metal nanoparticles supported chitosan coated carboxymethyl cellulose beads as a catalyst for the selective removal of 4-nitrophenol. Chemosphere, 2022, 291, 133010.	4.2	12
1301	SDS capped Cu nanorods: photosynthesis, stability, and their catalytic activity for trypan blue oxidative degradation. Journal of Materials Research and Technology, 2021, 15, 6841-6854.	2.6	7
1302	Cu-TiO ₂ /SiO ₂ photocatalysts for concrete-based building materials: Self-cleaning and air de-pollution performance. Construction and Building Materials, 2021, 313, 125419.	3.2	23
1303	Hetero-aggregation behaviour of green copper nanoparticles: Course interactions with environmental components. Separation and Purification Technology, 2022, 284, 120177.	3.9	2
1304	Copper nanocatalysts applied in coupling reactions: a mechanistic insight. Nanoscale, 2021, 13, 18817-18838.	2.8	8
1305	Unexpected high selectivity for acetate formation from CO ₂ reduction with copper based 2D hybrid catalysts at ultralow potentials. Chemical Science, 2021, 12, 15382-15388.	3.7	19
1307	Palladium-rich plasmonic nanorattles with enhanced LSPRs via successive galvanic replacement mediated by co-reduction. RSC Advances, 2021, 11, 40112-40119.	1.7	1
1308	Single atom site conjugated copper polyphthalocyanine assisted carbon nanotubes as cathode for reversible Li-CO ₂ batteries. Nano Research, 2022, 15, 4100-4107.	5.8	23
1309	Enhancement of the low-temperature catalytic graphitization of polyacrylonitrile by incorporating Cu nanostructures as plasmonic photocatalyst. Journal of Materials Science, 2022, 57, 1703-1713.	1.7	3
1310	Antimicrobial properties and applications of metal nanoparticles biosynthesized by green methods. Biotechnology Advances, 2022, 58, 107905.	6.0	62
1311	Phytogenic Synthesis of Metal/Metal Oxide Nanoparticles for Degradation of Dyes. Journal of Renewable Materials, 2022, 10, 1911-1930.	1.1	46
1312	Influence of Particle Size and Shapes on the Antifungal Activities of Greener Nanostructured Copper against <i>Penicillium italicum</i> . ACS Agricultural Science and Technology, 2022, 2, 42-56.	1.0	7
1313	Effective and selective electroreduction of aqueous nitrate catalyzed by copper particles on multi-walled carbon nanotubes. Journal of Environmental Management, 2022, 305, 114420.	3.8	2
1314	Influence of natural soil colloids' stability on transport of copper-based nanoparticles in saturated porous media. Environmental Nanotechnology, Monitoring and Management, 2022, 17, 100633.	1.7	0
1315	Construction of ZSM-5 Supported CuO-ZnO-ZrO ₂ Heterogeneous Catalysts for CO ₂ Hydrogenation to Methanol and Dimethyl Ether (DME): Effects of ZrO ₂ . SSRN Electronic Journal, 0, , .	0.4	0
1316	Magnetically Separable Fe ₃ O ₄ @poly(m-phenylenediamine)@Cu ₂ O Nanocatalyst for the Facile Synthesis of 5-phenyl-1,2,3-triazolo[1,5-c]quinazolines. ChemCatChem, 0, , .	1.8	7

#	ARTICLE	IF	CITATIONS
1317	Facets of nanoparticle-microbe interactions and their roles in nanobioremediation of environmental pollutants: Biochemical, molecular, and technological perspectives. , 2022, , 111-145.		0
1318	Copper-based nanostructures: Antimicrobial properties against agri-food pathogens. , 2022, , 477-503.		2
1319	Properties of Stable Aqueous Nanofluids Composed of Copper Nanoaggregates for Enhancing Heat Transfer. Industrial & Engineering Chemistry Research, 2022, 61, 1596-1605.	1.8	4
1320	Copper nanoparticle-based sensors for environmental pollutions. , 2022, , 751-774.		0
1321	Synthesis of cuprous oxide nanoparticles on graphitic carbon nitride and reduced graphene oxide and their catalytic performance toward the reduction of 4-nitrophenol. Journal of Materials Science, 2022, 57, 2424-2435.	1.7	5
1322	Hybridization of green synthesized silver nanoparticles with poly(ethylene glycol) methacrylate and their biomedical applications. PeerJ, 2022, 10, e12540.	0.9	7
1323	Synthesis and Characterization of Plant Derived Copper Oxide Nanoparticles and Their Application towards Oxygen Reduction Reaction. ChemistrySelect, 2022, 7, .	0.7	0
1324	Copper deposited diatom-biosilica with enhanced photothermal and photodynamic performance for infected wound therapy. New Journal of Chemistry, 2022, 46, 2140-2154.	1.4	6
1325	Stable Cu Catalysts Supported by Two-dimensional SiO ₂ with Strong Metal-Support Interaction. Advanced Science, 2022, 9, e2104972.	5.6	25
1326	Generation, regeneration, and recovery of Cu catalytic system by changing the polarity of electrodes. Green Chemistry, 2022, 24, 1132-1140.	4.6	15
1327	Single-Step Fabrication and Characterization of Nanoscale Cu Thinfilms for Optoelectronic Applications. Crystals, 2022, 12, 62.	1.0	0
1328	Biological synthesis of copper oxide nanoparticles using marine endophytic actinomycetes and evaluation of biofilm producing bacteria and A549 lung cancer cells. Journal of King Saud University - Science, 2022, 34, 101866.	1.6	29
1329	Green synthesis of copper-based nanoparticles using microbes. , 2022, , 17-44.		5
1330	Ultrafast synthesis of Cu ₂ O octahedrons inlaid in Ni foam for efficient alkaline water/seawater electrolysis. Electrochemistry Communications, 2022, 134, 107177.	2.3	12
1331	Metal oxides and their composites as flow-through biosensors for biomonitoring. , 2022, , 291-319.		2
1332	Gaussian mixture model for the unsupervised classification of AgCu nanoalloys based on the common neighbor analysis. EPJ Applied Physics, 2022, 97, 11.	0.3	1
1333	<i>Sapindus mukorossi</i> seed shell extract mediated green synthesis of CuO nanostructures: an efficient catalyst for C-N bond-forming reactions. Materials Advances, 2022, 3, 1115-1124.	2.6	9
1334	Direct 2,3-Butanediol Conversion to Butene-Rich C ₃ + Olefins over Copper-Modified 2D Pillared MFI: Consequence of Reduced Diffusion Length. ACS Sustainable Chemistry and Engineering, 2022, 10, 1664-1674.	3.2	4

#	ARTICLE	IF	CITATIONS
1335	Multifunctional copper-based nanocomposites in agroecosystem applications. , 2022, , 595-613.		1
1336	Copper-bismuth Binary Oxide Clusters: An Efficient Catalyst for Selective Styrene Bisperoxidation. Chemistry Letters, 2022, 51, 317-320.	0.7	0
1337	Green synthesis of copper oxide nanoparticles CuO NPs from Eucalyptus Globoulus leaf extract: Adsorption and design of experiments. Arabian Journal of Chemistry, 2022, 15, 103739.	2.3	100
1338	Advanced metal and carbon nanostructures for medical, drug delivery and bio-imaging applications. Nanoscale, 2022, 14, 3987-4017.	2.8	34
1339	Green synthesis of novel in-situ micro/submicron-Cu paste for semiconductor interconnection. Nanotechnology, 2022, , .	1.3	4
1340	Review on metal nanoparticles as nanocarriers: current challenges and perspectives in drug delivery systems. Emergent Materials, 2022, 5, 1593-1615.	3.2	202
1341	Urchin-like hybrid nanostructures of CuO _x /Fe ₂ O ₃ from Cu-mediated pyrolysis of Fe-MOFs for catalytic reduction of organic pollutants. Nanoscale, 2022, 14, 1826-1833.	2.8	4
1342	Cu@CuCl-visible light co-catalysed chlorination of C(sp ³)â€H bonds with MCl _n solution and photocatalytic serial reactor-based synthesis of benzyl chloride. Green Chemistry, 2022, 24, 384-393.	4.6	5
1343	Biosynthesis and antibacterial activity of Cu and CuO nanoparticles against pathogenic microorganisms. , 2022, , 417-452.		1
1344	Processing of Straight-Run Gasoline Over Copper-Containing Zeolite Catalysts. Chemistry and Technology of Fuels and Oils, 2022, 57, 876-880.	0.2	0
1345	Cu vacancy engineering on facet dependent CuO to enhance water oxidation efficiency. International Journal of Hydrogen Energy, 2022, 47, 9261-9272.	3.8	9
1346	Preparing Copper Nanoparticles and Flexible Copper Conductive Sheets. Nanomaterials, 2022, 12, 360.	1.9	6
1347	Promoting effective electrochemical oxidation of CO by Cu-doping for highly active hybrid direct carbon fuel cell anode. Journal of Power Sources, 2022, 521, 230966.	4.0	7
1348	One-Pot Synthesis of Carboxymethylcellulose-Templated Copper-NPs for Heterocatalytic Huisgen-Click Reactions on Lignocellulosic Bamboo Slices. Catalysis Letters, 2022, 152, 3558-3575.	1.4	7
1349	Morphology, Electrical and Optical Properties of Cu Nanostructures Embedded in AZO: A Comparison between Dry and Wet Methods. Micromachines, 2022, 13, 247.	1.4	4
1350	One-pot synthesis of mesoporous silicas supported Cu single-atom and CuO nanoparticles for peroxymonosulfate-activated degradation of tetracycline over a wide pH range. Microporous and Mesoporous Materials, 2022, 333, 111729.	2.2	9
1351	Functionalized Cu-based metal oxide nanoparticles with enhanced Cd ²⁺ adsorption capacity and their ecotoxicity assessment by molecular docking. Journal of Environmental Management, 2022, 307, 114523.	3.8	10
1352	Copper nanowires / poly (naphtoquinone chromium (III)) for simultaneous voltammetric detection of para - aminophenol, phenol and para - nitrophenol. Microchemical Journal, 2022, 175, 107210.	2.3	4

#	ARTICLE	IF	CITATIONS
1353	Synergistic effect of PEG-coated ZnO nanoparticles and ultrasonic irradiation on the C–B bond cleavage of aryl boronic acids. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 25, 100613.	1.6	3
1354	Photo-assisted thermal catalytic Fischer–Tropsch synthesis over Co–Cu/CeO ₂ . <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1258-1269.	3.0	11
1355	Reduction of Thermally Grown Single-Phase CuO and Cu ₂ O Thin Films by In-Situ Time-Resolved Xrd. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1356	Ameliorative effect of cerium oxide nanoparticles against Freund’s complete adjuvant-induced arthritis. <i>Nanomedicine</i> , 2022, 17, 383-404.	1.7	9
1357	Fabrication of carbon doped Cu-based oxides as superior NH ₃ -SCR catalysts via employing sodium dodecyl sulfonate intercalating CuMgAl-LDH. <i>Journal of Catalysis</i> , 2022, 407, 265-280.	3.1	30
1358	One step green synthesis of Cu nanoparticles by the aqueous extract of <i>Juglans regia</i> green husk: assessing its physicochemical, environmental and biological activities. <i>Bioprocess and Biosystems Engineering</i> , 2022, 45, 605-618.	1.7	8
1359	Thermodynamics of Carbon Monoxide Adsorption on Cu/SBA-15 Catalysts: Under Vacuum versus under Atmospheric Pressures. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3078-3086.	1.5	5
1360	Tunable Plasmonic Properties of Bimetallic Au-Cu Nanorods for SERS-Based Sensing Application. <i>Journal of Electronic Materials</i> , 2022, 51, 1857-1865.	1.0	7
1361	Copper(II)- β -cyclodextrin immobilized on graphitic carbon nitride nanosheets as a highly effective catalyst for tandem oxidative amidation of benzylic alcohols. <i>Scientific Reports</i> , 2022, 12, 2331.	1.6	1
1362	CuI Nanoparticles–Catalyzed Regioselective Synthesis of 3-Nitro-2-arylimidazo[1,2-a]pyridines using Oxygen as Oxidant. <i>Asian Journal of Organic Chemistry</i> , 0, , .	1.3	8
1363	Copper Nanoparticles with a Tunable Size: Implications for Plasmonic Catalysis. <i>ACS Applied Nano Materials</i> , 2022, 5, 2839-2847.	2.4	7
1364	Micro-/mesopores confined ultrasmall Cu nanoparticles in SBA-15 as a highly efficient and robust catalyst for furfural hydrogenation to furfuryl alcohol. <i>Applied Catalysis A: General</i> , 2022, 633, 118527.	2.2	14
1365	Electrochemical, Optical and Morphological Characterizations of Cu Doped ZnO Nanostructure Thin Films Prepared by Spin Coating Method. <i>Afyon Kocatepe University Journal of Sciences and Engineering</i> , 2021, 21, 1306-1314.	0.1	3
1366	Ultra-high thermal stability of sputtering reconstructed Cu-based catalysts. <i>Nature Communications</i> , 2021, 12, 7209.	5.8	36
1367	Biosynthesis and Fabrication of Copper Oxide Thin Films as a P-Type Semiconductor for Solar Cell Applications. <i>Coatings</i> , 2021, 11, 1545.	1.2	6
1368	Magnetic mesocellular foams with nickel complexes: as efficient and reusable nanocatalysts for the synthesis of symmetrical and asymmetrical diaryl chalcogenides. <i>Nanoscale Advances</i> , 2022, 4, 2208-2223.	2.2	3
1369	Green synthesis of nanomaterials from sustainable materials for biosensors and drug delivery. <i>Sensors International</i> , 2022, 3, 100166.	4.9	47
1370	Development of CuO:Al Thin Films Synthesized by Sol-Gel Method for Gas Sensing Applications. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
1371	Photothermal Reduction of 4-Nitrophenol to 4-Aminophenol Using Silver/Polydopamine Catalysts. SSRN Electronic Journal, 0, , .	0.4	0
1372	Copper Materials for Low Temperature Sintering. Materials Transactions, 2022, 63, 663-675.	0.4	7
1373	A comparison of homogeneous and heterogeneous copper catalyzed arylation of amines. Mendeleev Communications, 2022, 32, 91-93.	0.6	5
1374	A highly stable copper nano cluster on nitrogen-doped graphene quantum dots for the simultaneous electrochemical sensing of dopamine, serotonin, and nicotine: a possible addiction scrutinizing strategy. Journal of Materials Chemistry B, 2022, 10, 3974-3988.	2.9	17
1375	Rhizospheric health management through nanofertilizers. , 2022, , 329-353.		1
1377	A sustainable gateway to access 1,8-dioxo-octahydroxanthene scaffolds <i>via</i> a surface-engineered halloysite-based magnetically responsive catalyst. New Journal of Chemistry, 2022, 46, 5405-5418.	1.4	4
1378	A review on the synthesis and applications of sustainable copper-based nanomaterials. Green Chemistry, 2022, 24, 3502-3573.	4.6	23
1379	Comparison of the Catalytic Activities of Copper(I) Iodide and Copper Nanoparticles in the N-Arylation of Adamantane-Containing Amines. Russian Journal of Organic Chemistry, 2022, 58, 15-24.	0.3	5
1380	N-doped carbon@Cu coreâ€‘shell nanostructure with nearly full solar spectrum absorption and enhanced solar evaporation efficiency. Journal of Materials Chemistry A, 2022, 10, 9575-9581.	5.2	37
1382	Construction of Zsm-5 Supported Cuo-Zno-Zro2 Heterogeneous Catalysts for Co2 Hydrogenation to Methanol and Dimethyl Ether (Dme): Effects of Zro2. SSRN Electronic Journal, 0, , .	0.4	0
1383	Synthesis, photocatalytic and antibacterial activities of a PDS-activated MgO nanocatalyst: experimental and theoretical studies. New Journal of Chemistry, 2022, 46, 6694-6707.	1.4	4
1384	Classification of nanomaterials and their physical and chemical nature. , 2022, , 7-34.		1
1385	Cost-Effective and Self-Reducible Cu-Ni Composite Ink for Low Temperature Fabricating Highly Conductive and Anti-Oxidative Electrode. SSRN Electronic Journal, 0, , .	0.4	0
1386	Antimicrobial Evaluation and Characterization of Copper Nanoparticles Synthesized by the Simple Chemical Method. Korean Journal of Materials Research, 2022, 32, 80-84.	0.1	0
1387	CuI and Copper Nanoparticles in the Catalytic Amination of 2-Halopyridines. Russian Journal of Organic Chemistry, 2022, 58, 167-174.	0.3	4
1388	Chemical and Physical Properties of Photonic Nobleâ€‘Metal Nanomaterials. Advanced Materials, 2023, 35, e2108104.	11.1	10
1389	Copper Nanoplates for Printing Flexible High-Temperature Conductors. ACS Applied Nano Materials, 2022, 5, 4028-4037.	2.4	13
1390	Synthesis of Cu nanoparticles in a chitosan entrapped copolymer matrix for photocatalytic reduction of textile dye and column adsorption of heavy metal ions from water. Polymer Engineering and Science, 2022, 62, 1399-1415.	1.5	10

#	ARTICLE	IF	CITATIONS
1391	Cu ₂ O nanoparticles supported on ordered mesoporous silica for the catalytic hydrogenation of cinnamaldehyde. <i>Comptes Rendus Chimie</i> , 2022, 25, 81-94.	0.2	0
1392	Anisotropic Growth of Copper Nanorods Mediated by Cl ⁻ Ions. <i>ACS Omega</i> , 2022, 7, 7414-7420.	1.6	0
1393	A New Cu(II) Metal Complex Template with 4 ⁺ -tert-Butyl-Pyridinium Organic Cation: Synthesis, Structure, Hirshfeld Surface, Characterizations and Antibacterial Activity. <i>Crystals</i> , 2022, 12, 254.	1.0	6
1394	Advanced copper based nanostructured materials for oxidative methylesterification reactions- A mini review. <i>Materials Today: Proceedings</i> , 2022, , .	0.9	0
1395	Synthesis of Doped/Hybrid Carbon Dots and Their Biomedical Application. <i>Nanomaterials</i> , 2022, 12, 898.	1.9	22
1396	Band Structure Engineering and Defect Passivation of Cu _x Ag _{1-x} InS ₂ /ZnS Quantum Dots to Enhance Photoelectrochemical Hydrogen Evolution. <i>ACS Omega</i> , 2022, 7, 9642-9651.	1.6	4
1397	Tuning the Polarity of a Fibrous Poly(vinylidene fluoride-co-hexafluoropropylene)-Based Support for Efficient Water Electrolysis. <i>ACS Omega</i> , 2022, 7, 10077-10086.	1.6	5
1398	PINK1/TAX1BP1-directed mitophagy attenuates vascular endothelial injury induced by copper oxide nanoparticles. <i>Journal of Nanobiotechnology</i> , 2022, 20, 149.	4.2	17
1399	Advances in Nanotechnology Development to Overcome Current Roadblocks in CAR-T Therapy for Solid Tumors. <i>Frontiers in Immunology</i> , 2022, 13, 849759.	2.2	4
1400	Pt-Based Multimetal Electrocatalysts and Potential Applications: Recent Advancements in the Synthesis of Nanoparticles by Modified Polyol Methods. <i>Crystals</i> , 2022, 12, 375.	1.0	10
1401	Two-dimensional porous Cu-CuO nanosheets: Integration of heterojunction and morphology engineering to achieve high-effective and stable reduction of the aromatic nitro-compounds. <i>Chinese Chemical Letters</i> , 2023, 34, 107295.	4.8	7
1402	Synergistic Effects Between Metal Nanoparticles and Commercial Antimicrobial Agents: A Review. <i>ACS Applied Nano Materials</i> , 2022, 5, 3030-3064.	2.4	84
1403	Cu microcrystals garnished with copper nanoparticles catalyzed one-pot facile synthesis of novel 1,2,3-triazoles via click chemistry as antifungal agents. <i>Applied Organometallic Chemistry</i> , 2022, 36, .	1.7	7
1404	Eco-friendly synthesis and characterizations of Ag/AgO/Ag ₂ O nanoparticles using leaf extracts of <i>Solanum elaeagnifolium</i> for antioxidant, anticancer, and DNA cleavage activities. <i>Chemical Papers</i> , 2022, 76, 4309-4321.	1.0	12
1405	Understanding the effects of polar and non-polar surfactants on the oxidation performance of copper nanoparticles. <i>Journal of Materials Science</i> , 2022, 57, 6167-6181.	1.7	3
1406	Dextrose Assisted Sol-Gel Synthesis and Evaluation of Structural Parameters of Li _{0.5} Fe _{2.5} O ₄ Nanoparticles for Microwave Device Application. <i>Advanced Materials Research</i> , 0, 1169, 27-33.	0.3	1
1407	SERS/TERS Characterization of New Potential Therapeutics: The Influence of Positional Isomerism, Interface Type, Oxidation State of Copper, and Incubation Time on Adsorption on the Surface of Copper(I) and (II) Oxide Nanoparticles. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 4387-4400.	2.9	4
1408	Novel Bimetallic Magnetic Nanocomposites Obtained from Waste-Sourced Bio-based Substances as Sustainable Photocatalysts.. <i>Materials Research Bulletin</i> , 2022, , 111846.	2.7	3

#	ARTICLE	IF	CITATIONS
1409	Confined Growth of Silver-Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction. <i>Advanced Materials</i> , 2022, 34, e2110607.	11.1	82
1410	Hydrogenation of 1-nitroanthraquinone to 1-aminoanthraquinone with gaseous H ₂ catalyzed by copper nanoparticles and reaction kinetics. <i>Journal of Nanoparticle Research</i> , 2022, 24, 1.	0.8	2
1411	A new octamolybdate-based coordination polymer for light-driven hydrogen evolution. <i>Journal of Molecular Structure</i> , 2022, 1262, 132995.	1.8	3
1412	Assembly of Alloyed PdCu Nanosheets and Their Electrocatalytic Oxidation of Ethanol. <i>Langmuir</i> , 2022, 38, 4287-4294.	1.6	11
1413	A highly efficient and free-standing copper single atoms anchored nitrogen-doped carbon nanofiber-cathode toward reliable Li-CO ₂ batteries. <i>Materials Today Energy</i> , 2022, 25, 100967.	2.5	15
1414	Bio-inspired sustainable synthesis of silver chloride nanoparticles and their prominent applications. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100335.	1.3	33
1415	Atomic-scale understanding of oxidation mechanisms of materials by computational approaches: A review. <i>Materials and Design</i> , 2022, 217, 110605.	3.3	6
1416	Photocatalytic H ₂ production and degradation of aqueous 2-chlorophenol over B/N-graphene-coated CuO/TiO ₂ : A DFT, experimental and mechanistic investigation. <i>Journal of Environmental Management</i> , 2022, 311, 114822.	3.8	11
1417	Synthesis and characterization of ZnO@WO ₃ core/shell nanoparticles as counter electrode for dye-sensitized solar cell. <i>Surfaces and Interfaces</i> , 2022, 30, 101920.	1.5	15
1418	Ultrathin graphdiyne nanosheets confining Cu quantum dots as robust electrocatalyst for biosensing featuring remarkably enhanced activity and stability. <i>Biosensors and Bioelectronics</i> , 2022, 205, 114111.	5.3	15
1419	Reduction of thermally grown single-phase CuO and Cu ₂ O thin films by in-situ time-resolved XRD. <i>Applied Surface Science</i> , 2022, 588, 152896.	3.1	26
1420	Green supported Cu nanoparticles on modified Fe ₃ O ₄ nanoparticles using thymra spicata flower extract: Investigation of its antioxidant and the anti-human lung cancer properties. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103816.	2.3	1
1421	Optical properties and novelty preparation PVA/PVP doping with Cu as surface plasmonic ions. <i>Optik</i> , 2022, 259, 168965.	1.4	5
1422	Synthesis of copper oxide nanoparticles using capsular polymeric substances produced by <i>Bacillus altitudinis</i> and investigation of its efficacy to kill pathogenic <i>Pseudomonas aeruginosa</i> . <i>Chemical Engineering Journal Advances</i> , 2022, 11, 100294.	2.4	18
1423	Polyethyleneimine-protected silver cluster for label-free and highly selective detection of 2,4,6-trinitrotoluene. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 276, 121224.	2.0	4
1424	Novel hollow microsphere with porous carbon shell embedded with Cu/Co bimetal nanoparticles: Facile large-scale preparation and catalytic hydrogenation performance. <i>Journal of Materials Science and Technology</i> , 2022, 122, 44-53.	5.6	5
1425	Facile green synthesis of ZnO-CuO nanocomposites using areca catechu leaves and their in vitro antidiabetic and cytotoxicity studies. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2021, 12, 045018.	0.7	2
1426	Heterogeneous Cu catalyst in organic transformations. <i>Nano Research</i> , 2022, 15, 2810-2833.	5.8	29

#	ARTICLE	IF	CITATIONS
1427	Biocompatible polymer-capped oxidation-resistant copper nanoparticles for nanofluid and hydrogel applications. <i>European Physical Journal Plus</i> , 2022, 137, 1.	1.2	2
1428	Nanostructured Mesoporous Zinc-Incorporated Copper Oxide (NMZI-CuO): An Efficient and Reusable Nanocatalyst for the Oxidant-Free Synthesis of Quinoxalines through a Tandem Oxidation Process. <i>Polycyclic Aromatic Compounds</i> , 2022, 42, 7582-7594.	1.4	1
1429	Metallic Copper-Containing Composite Photocatalysts: Fundamental, Materials Design, and Photoredox Applications. <i>Small Methods</i> , 2022, 6, e2101001.	4.6	18
1431	Sonoelectrosynthesis of monodisperse metal nanoparticles. <i>Nanoscale</i> , 2022, , .	2.8	1
1432	Atomic- and Molecular-Level Modulation of Dispersed Active Sites for Electrocatalytic CO ₂ Reduction. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	2
1433	Advances in Soft and Dry Electrodes for Wearable Health Monitoring Devices. <i>Micromachines</i> , 2022, 13, 629.	1.4	34
1434	Engineered Chemical Utilization of CO ₂ to Methanol via Direct and Indirect Hydrogenation Pathways: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 10319-10335.	1.8	12
1435	Non-Noble Plasmonic Metal-Based Photocatalysts. <i>Chemical Reviews</i> , 2022, 122, 10484-10537.	23.0	268
1436	Direct Use of Copper-Containing Minerals in Goldberg Arylation of Amides. <i>Catalysis Letters</i> , 0, , .	1.4	1
1437	Evaluation of Anticancer Potential of Biogenic Copper Oxide Nanoparticles (CuO NPs) against Breast Cancer. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-7.	1.5	35
1438	Recyclable Ag/halloysite nanotubes/polyvinyl alcohol sponges for enhanced reduction of 4-nitrophenol. <i>Applied Clay Science</i> , 2022, 223, 106510.	2.6	10
1439	Plasmon-induced broad spectrum photocatalytic overall water splitting: Through non-noble bimetal nanoparticles hybrid with reduced graphene oxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 646, 128962.	2.3	50
1440	Investigating the effects of carbon-based nanofluids on the interfacial evaporation of salt water under infrared light. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 646, 129018.	2.3	3
1443	Sol-Gel Derived Cobalt-Doped CeO ₂ Nanocomposite on Gold Electrode for Glucose Electrochemical Sensing. <i>Asian Journal of Chemistry</i> , 2022, 34, 1255-1262.	0.1	0
1444	Flexible Phosphorus-Doped Activated Carbon Fiber Paper In-Situ Loading of CuO for Degradation of Phenol. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1446	Identification and Quantification of Nanomaterials in Consumer Product. , 2022, , 101-139.		0
1447	Catalytic Methods for the Synthesis of Sugar Esters. <i>Catalysis in Industry</i> , 2022, 14, 115-130.	0.3	2
1448	Silver-Copper Alloy Nanoinks for Ambient Temperature Sintering. <i>Langmuir</i> , 2022, 38, 5633-5644.	1.6	5

#	ARTICLE	IF	CITATIONS
1449	Water coordinated on Cu(I)-based catalysts is the oxygen source in CO ₂ reduction to CO. <i>Nature Communications</i> , 2022, 13, 2577.	5.8	5
1450	Photocatalytic Behavior of Supported Copper Double Salt: The Role of Graphene Oxide. <i>Journal of Chemistry</i> , 2022, 2022, 1-9.	0.9	0
1451	Cu(II) immobilized on guanidine functionalized Fe ₃ O ₄ magnetic substrate as a heterogeneous catalyst for selective reduction of nitroarenes. <i>Journal of the Iranian Chemical Society</i> , 2022, 19, 3697-3709.	1.2	2
1452	Recent Advances and Challenges in Ultrafast Photonics Enabled by Metal Nanomaterials. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	7
1453	Triggering the Direct C-C Coupling of Gaseous CO into C ₂ Oxygenates by Synergizing Interfacial Interactions and Reversible Spatial Dynamic Confinement. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8645-8654.	1.5	5
1454	Copper nanoparticles catalyzed carbon-heteroatom bond formation and synthesis of related heterocycles by greener procedures. <i>ChemistrySelect</i> , 2022, .	0.7	0
1455	Polymers used in green synthesis of nanoparticles and their importance in pharmaceutical and biomedical applications. , 2022, , 125-163.		3
1456	Development and Property Tuning of Refractory High-Entropy Alloys: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 1231-1265.	1.5	21
1457	Impact of iodide ions in the transformation of Cu nanostructures from one-dimensional nanowires to two-dimensional microplates. <i>Journal of Chemical Sciences</i> , 2022, 134, 1.	0.7	8
1458	Selective oxidation of cyclohexene to adipic acid over CuNPs supported on PLA/TiO ₂ . <i>Catalysis Communications</i> , 2022, 168, 106460.	1.6	3
1459	Biosynthesis of folic acid appended PHBV modified copper oxide nanorods for pH sensitive drug release in targeted breast cancer therapy. <i>International Journal of Pharmaceutics</i> , 2022, 622, 121831.	2.6	19
1460	Waste eggshell-supported CuO used as heterogeneous catalyst for reactive blue 19 degradation through peroxydisulfate activation (CuO/eggshell catalysts activate PMS to degrade reactive blue) <i>Tj ETQq1 1 0.284314 egBT /Overl</i>		
1461	Optical Biosensors for Environmental Analysis. , 2022, , .		0
1462	High-yield synthesis and hybridizations of Cu microplates for catalytic applications. <i>CrystEngComm</i> , 2022, 24, 4454-4464.	1.3	2
1463	Competing oxidation mechanisms in Cu nanoparticles and their plasmonic signatures. <i>Nanoscale</i> , 2022, 14, 8332-8341.	2.8	5
1464	Copper-Based Nanoparticles for Pesticide Effects. , 2022, , 187-212.		1
1465	Silver nanoparticles-loaded copper (II)-terephthalate framework nanocomposite as a screen-printed carbon electrode modifier for amperometric nitrate detection. <i>Journal of Electroanalytical Chemistry</i> , 2022, 918, 116440.	1.9	8
1466	Surface-modified nanomaterials for synthesis of pharmaceuticals. , 2022, , 251-266.		0

#	ARTICLE	IF	CITATIONS
1467	Introduction to surface-modified nanomaterials. , 2022, , xvii-xxix.		0
1468	Bio-carbon-layered CuO-catalyzed decarboxylative alkenylation of cyclic ethers. New Journal of Chemistry, 2022, 46, 12551-12557.	1.4	2
1469	Heteroatom Modified Polymer Immobilized Ionic Liquid Stabilized Ruthenium Nanoparticles: Efficient Catalysts for the Hydrolytic Evolution of Hydrogen from Sodium Borohydride*. SSRN Electronic Journal, 0, , .	0.4	0
1470	SMN-based catalytic membranes for environmental catalysis. , 2022, , 171-196.		0
1471	The versatility of the dynamic hydrogen bubble template derived copper foam on the emerging energy applications: progress and future prospects. Journal of Materials Chemistry A, 2022, 10, 13589-13624.	5.2	14
1472	New frontiers for heterogeneous catalysis. , 2022, , 1-27.		0
1473	Thermal expansion and phonon anharmonicity of cuprite studied by inelastic neutron scattering and <i>ab initio</i> calculations. Physical Review B, 2022, 105, .	1.1	5
1474	Green synthesis of <i>Size-Controlled</i> copper oxide nanoparticles as catalysts for <i>H₂</i> production from industrial waste aluminum. International Journal of Energy Research, 2022, 46, 14023-14035.	2.2	4
1475	Green Synthesis of Dimethyl Carbonate from CO ₂ and Methanol: New Strategies and Industrial Perspective. Advanced Sustainable Systems, 2022, 6, .	2.7	21
1476	Stability of Polyethylene Glycol-Coated Copper Nanoparticles and Their Optical Properties. Coatings, 2022, 12, 776.	1.2	1
1477	Environmental Applications of Metal-Organic Frameworks. ACS Symposium Series, 0, , 247-255.	0.5	1
1478	Influence of the polymer nature on the formation and stability of copper nanopaticles. AIP Conference Proceedings, 2022, , .	0.3	0
1479	Biological applications of ternary quantum dots: A review. Nanotechnology Reviews, 2022, 11, 2304-2319.	2.6	6
1480	Inexpensive and Easily Replicable Precipitation of CuO Nanoparticles for Low Temperature Carbon Monoxide and Toluene Catalytic Oxidation. SSRN Electronic Journal, 0, , .	0.4	0
1481	Copper supported silica-based nanocatalysts for CuAAC and cross-coupling reactions. Reaction Chemistry and Engineering, 2022, 7, 1891-1920.	1.9	2
1482	Developing Benign Ni/g-C ₃ N ₄ Catalysts for CO ₂ Hydrogenation: Activity and Toxicity Study. Industrial & Engineering Chemistry Research, 2022, 61, 10496-10510.	1.8	7
1483	Sustainable and Bench-Stable Photoactive Aqueous Nanoaggregates of Cu(II) for ppm Level Cu(I) Catalysis in Water. Advanced Functional Materials, 2022, 32, .	7.8	6
1484	Layer by layer self-assembled hybrid thin films of Porphyrin/Polyoxometalates@Pt nanoparticles for photo & electrochemical application. Materials Today Communications, 2022, 31, 103811.	0.9	5

#	ARTICLE	IF	CITATIONS
1485	The influence of different zeolitic supports on hydrogen production and waste degradation. Canadian Journal of Chemical Engineering, 2023, 101, 1345-1357.	0.9	1
1486	CuO nanoparticles as modifiers for membranes: A review of performance for water treatment. Materials Today Communications, 2022, 32, 103896.	0.9	4
1487	Dual Responsive Sustainable Cu ₂ O/Cu Nanocatalyst for Sonogashira and Chan-Lam Cross-Coupling Reactions. Catalysis Letters, 2023, 153, 1423-1437.	1.4	1
1488	Recent Advances in Synthesis of CeVO ₄ Nanoparticles and Their Potential Scaffold for Photocatalytic Applications. Topics in Catalysis, 2023, 66, 89-103.	1.3	30
1489	Synergistic Catalysis by Copper Oxide/Graphene Oxide Nanocomposites: A Facile Approach to Prepare Quinazoles and Quinazoline Containing Triazole/Tetrazole Moieties under Mild Reaction Conditions. ChemistrySelect, 2022, 7, .	0.7	0
1490	Photocatalytic and Antioxidant Studies of Bioinspired ZrO ₂ Nanoparticles Using Agriculture Waste Durva Grass Aqueous Extracts. Journal of Hazardous Materials Advances, 2022, 7, 100112.	1.2	3
1491	Highly Active and Stable Bis Imidazolium-Based Copper N-heterocyclic Carbene Modified Graphene Oxide for O-arylation and N-arylation Reactions in Water. Catalysis Letters, 0, , .	1.4	0
1492	Solid-State Reaction Synthesis of Nanoscale Materials: Strategies and Applications. Chemical Reviews, 2022, 122, 12748-12863.	23.0	35
1493	Mediating CO ₂ Electroreduction Activity and Selectivity over Atomically Precise Copper Clusters. Angewandte Chemie - International Edition, 2022, 61, .	7.2	44
1494	Latent Benefits and Toxicity Risks Transmission Chain of High Dietary Copper along the Livestockâ€“Environmentâ€“Plantâ€“Human Health Axis and Microbial Homeostasis: A Review. Journal of Agricultural and Food Chemistry, 2022, 70, 6943-6962.	2.4	15
1495	Mediating CO ₂ Electroreduction Activity and Selectivity over Atomically Precise Copper Clusters. Angewandte Chemie, 2022, 134, .	1.6	8
1496	CuO-Fe(III)-Zeolite-Y as efficient catalyst for oxidative alcohol-amine coupling reactions. Molecular Catalysis, 2022, 528, 112458.	1.0	4
1497	Preparation of Fe ₃ O ₄ -Cys-Cu magnetic nanocatalyst for expedient synthesis of tripodal C ₃ symmetric chromofluorogenic receptor for sensing of fluoride ion selectively: An experimental and computational slant. Materials Chemistry and Physics, 2022, 288, 126360.	2.0	3
1498	Surfactant Controls Morphology and Oxidation State on CuO Crystallites for Electrocatalytic CO ₂ Reduction to C ₂ H ₄ . SSRN Electronic Journal, 0, , .	0.4	0
1499	Clove (Syzygium aromaticum)-mediated metallic nanoparticles: Synthesis, characterization, and possible pharmacological and industrial applications. , 2022, , 639-661.		2
1500	Microstructural Investigation of Sonochemically Synthesized Zn Substituted CuFe ₂ O ₄ Nanoparticles for Heterogeneous Green Catalytic Click Chemistry and Dye Degradation. SSRN Electronic Journal, 0, , .	0.4	0
1501	Redispersed Exsolved Cu Nanoparticles on LaFeO ₃ Photocatalyst for Tunable Photocatalytic CO ₂ Reduction. SSRN Electronic Journal, 0, , .	0.4	0
1502	Nanomaterials in tissue engineering: Applications and challenges. , 2022, , 533-554.		0

#	ARTICLE	IF	CITATIONS
1503	Visible-Light Copper Nanocluster Catalysis for the C–N Coupling of Aryl Chlorides at Room Temperature. <i>Journal of the American Chemical Society</i> , 2022, 144, 12052-12061.	6.6	37
1504	Copper Phosphonate Lamella Intermediates Control the Shape of Colloidal Copper Nanocrystals. <i>Journal of the American Chemical Society</i> , 2022, 144, 12261-12271.	6.6	8
1505	Particle Size Effects in the Selective Hydrogenation of Alkadienes over Supported Cu Nanoparticles. <i>ChemCatChem</i> , 2022, 14, .	1.8	4
1506	Preparation of Copper Nanoplates in Aqueous Phase and Electrochemical Detection of Dopamine. <i>Life</i> , 2022, 12, 999.	1.1	3
1507	Research Progress of Photothermal Nanomaterials in Multimodal Tumor Therapy. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	6
1508	Highly selective electrocatalytic hydrogenation of 5-hydroxymethylfurfural to 2,5-dihydroxymethylfuran over AgCu nanoalloys. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 28904-28914.	3.8	11
1509	Effect of annealing on the stoichiometry and plasmonic properties of PLD nanostructured semi-transparent copper thin film using BEMA. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , .	1.1	0
1510	Directed synthesis of a new decamolybdate-encapsulated nanocage framework by mixed-ligands for light-driven hydrogen generation. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 2975-2980.	2.1	1
1511	Zeolite-encapsulated Cu nanoparticles with enhanced performance for ethanol dehydrogenation. <i>Journal of Catalysis</i> , 2022, 413, 565-574.	3.1	16
1512	Metal nanoparticles: biomedical applications and their molecular mechanisms of toxicity. <i>Chemical Papers</i> , 2022, 76, 6073-6095.	1.0	7
1513	Fabrication of vertex-type selectively reinforced PtCu@PtCuNi double-layered nanoframes for efficient methanol electrooxidation catalysis. <i>ChemNanoMat</i> , 0, , .	1.5	1
1514	Effects of differently incubated cupric oxide nanoparticles on the granulosa cells of caprine ovary in vitro. <i>Environmental Science and Pollution Research</i> , 2022, 29, 84243-84255.	2.7	1
1515	Heteroatom modified polymer immobilized ionic liquid stabilized ruthenium nanoparticles: Efficient catalysts for the hydrolytic evolution of hydrogen from sodium borohydride. <i>Molecular Catalysis</i> , 2022, 528, 112476.	1.0	1
1516	A review of nanotechnology fluid applications in geothermal energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112729.	8.2	25
1517	Dendrite-like Cu-based micro/nanomaterials fabricated on insulators by shielding ion transportation during electrochemical migration. <i>Materials Letters</i> , 2022, 324, 132737.	1.3	0
1518	Photothermal reduction of 4-nitrophenol to 4-aminophenol using silver/polydopamine catalysts. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108253.	3.3	4
1519	An ultrasensitive immunosensor based on cellulose nanofibrils/polydopamine/Cu-Ag nanocomposite for the detection of AFP. <i>Bioelectrochemistry</i> , 2022, 147, 108200.	2.4	10
1520	Effective utilization of CuO derived from waste printed circuit boards as a peroxymonosulfate activator for the degradation of reactive blue 19. <i>Separation and Purification Technology</i> , 2022, 298, 121657.	3.9	10

#	ARTICLE	IF	CITATIONS
1521	Flexible phosphorus-doped activated carbon fiber paper in-situ loading of CuO for degradation of phenol. Separation and Purification Technology, 2022, 298, 121619.	3.9	13
1522	Fabrication of monodisperse gold-copper nanocubes and AuCu-cuprous sulfide heterodimers by a step-wise polyol reduction. Journal of Colloid and Interface Science, 2022, 626, 136-145.	5.0	5
1523	Efficient photothermal-assisted photocatalytic hydrogen production over a plasmonic CuNi bimetal cocatalyst. Journal of Colloid and Interface Science, 2022, 626, 975-984.	5.0	14
1524	Highly efficient and photo-triggered elimination of Aspergillus fumigatus spores by Zn-Ti layered double hydroxide. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 432, 114114.	2.0	6
1525	Metallic Nanoparticles as promising tools to eradicate H. pylori: A comprehensive review on recent advancements. Talanta Open, 2022, 6, 100129.	1.7	3
1526	Metallopolymer Particle Engineering via Etching of Boronate Polymers toward High-Performance Overall Water Splitting Catalysts. Small, 2022, 18, .	5.2	2
1527	Machine Learning for Electrocatalyst and Photocatalyst Design and Discovery. Chemical Reviews, 2022, 122, 13478-13515.	23.0	120
1528	Nanomaterials for carbon dioxide conversion at industrial scale. Nature Nanotechnology, 2022, 17, 811-813.	15.6	7
1529	Tunable CuO nanostructured thin films derived from metal-organic frameworks for dehydrogenation of alcohols. Journal of Materials Chemistry A, 2022, 10, 17680-17690.	5.2	1
1530	Sustained Release Catalysis: Dynamic Copper Releasing from Stoichiometric Spinel CuAl ₂ O ₄ During Methanol Steam Reforming. SSRN Electronic Journal, 0, , .	0.4	0
1531	Recent applications of nanoparticles in organic transformations. Organic and Biomolecular Chemistry, 2022, 20, 6979-6993.	1.5	1
1532	Non-Oxidized Bare Metal Nanoparticles in Air: A Rational Approach for Large-Scale Synthesis via Wet Chemical Process. Advanced Science, 2022, 9, .	5.6	8
1533	Insights into selective hydrogenation of levulinic acid using copper on manganese oxide octahedral molecular sieves. Royal Society Open Science, 2022, 9, .	1.1	5
1534	Prooxidant, antioxidant and biological activity of nanocomposites of reduced graphene oxide, silver, copper and their combinations. Chemical Papers, 0, , .	1.0	0
1535	Cuprous Oxide Nanoparticles Decorated Fabric Materials with Anti-biofilm Properties. ACS Applied Bio Materials, 2022, 5, 4310-4320.	2.3	13
1536	Pd/Cu ₂ O/CuO as Active Sites on the Cyclometalated Pd(II)/Cu(II) Nanosheet: Active Centre Formation, Synergistic and Catalytic Mechanism. ChemistrySelect, 2022, 7, .	0.7	1
1537	Bioengineered cerium oxide (CeO ₂) nanoparticles and their diverse applications: a review. Applied Nanoscience (Switzerland), 2023, 13, 6067-6092.	1.6	50
1538	CuAu bimetallic plasmonic-enhanced catalysts supported on alginate biohydrogels. Carbohydrate Polymers, 2022, 297, 120021.	5.1	7

#	ARTICLE	IF	CITATIONS
1539	Green Nanoarchitectonics of Cu/Fe ₃ O ₄ Nanoparticles Using Helleborus niger Extract Towards an Efficient Nanocatalyst, Antioxidant and Anti-lung Cancer Agent. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 3585-3594.	1.9	8
1540	Copper-based metal-organic frameworks for electrochemical reduction of CO ₂ . Chinese Chemical Letters, 2023, 34, 107757.	4.8	2
1541	Green Synthesis of a Nano Copper Powder via a Facile Ethanol Thermal Reduction and Its Mechanism. ChemistrySelect, 2022, 7, .	0.7	1
1542	Enhancing organosilicon polymer-derived ceramic properties. Journal of Applied Physics, 2022, 132, 070901.	1.1	2
1543	Accelerated prediction of atomically precise cluster structures using on-the-fly machine learning. Npj Computational Materials, 2022, 8, .	3.5	4
1544	Recent Advances in Nano-Formulations for Skin Wound Repair Applications. Drug Design, Development and Therapy, 0, Volume 16, 2707-2728.	2.0	9
1545	A fully handwritten-on-paper copper nanoparticle ink-based electroanalytical sweat glucose biosensor fabricated using dual-step pencil and pen approach. Analytica Chimica Acta, 2022, 1227, 340257.	2.6	7
1546	Impact of copper phthalocyanine structure on catalytic activity when incorporated into hierarchically porous carbon. Molecular Catalysis, 2022, 529, 112555.	1.0	0
1547	Nanoscale zerovalent copper (nZVC) catalyzed environmental remediation of organic and inorganic contaminants: A review. Heliyon, 2022, 8, e10140.	1.4	5
1548	New Strategies on Green Synthesis of Dimethyl Carbonate from Carbon Dioxide and Methanol over Oxide Composites. Molecules, 2022, 27, 5417.	1.7	2
1549	Preparation of Fetal Bovine Serumâ€Copper Phosphate Hybrid Particles under Cell Culture Conditions for Cancer Cell Treatment. ACS Omega, 2022, 7, 29495-29501.	1.6	1
1550	The Processing and Electrical Properties of Isotactic Polypropylene/Copper Nanowire Composites. Polymers, 2022, 14, 3369.	2.0	0
1551	Bis(acyl)phosphine Oxides as Stoichiometric Photoâ€CReductants for Copper Nanoparticle Synthesis: Efficiency and Kinetics. ChemPhotoChem, 2022, 6, .	1.5	0
1552	Room-temperature Electrochemical C1-to-fuel Conversion: Perspectives from Material Engineering and Device Design. EnergyChem, 2022, 4, 100086.	10.1	5
1553	CuO NPs catalyzed synthesis of quinolines, pyridines, and pyrroles via dehydrogenative coupling strategy. Journal of Catalysis, 2022, 413, 1017-1027.	3.1	7
1554	Non-spherical plasmonic copper nanoparticles in a transparent MgAl ₂ O ₄ ceramic matrix: Optical spectroscopy and conceptional models. Journal of Physics and Chemistry of Solids, 2022, 170, 110966.	1.9	1
1555	Tunable energy level induced fluorescence enhancement in copper functionalized silicon quantum dots for highly selective detection of bisulfite. Sensors and Actuators B: Chemical, 2022, 370, 132444.	4.0	11
1556	Near infrared optically responsive Ag-Cu bimetallic 2D nanocrystals with controllable spatial structures. Journal of Colloid and Interface Science, 2022, 628, 660-669.	5.0	3

#	ARTICLE	IF	CITATIONS
1557	A tunable CuDyO ₄ affixed exfoliated S-doped graphene oxide s-scheme heterojunction sheet photocatalytic degradation towards dye from aqueous solution. Inorganic Chemistry Communication, 2022, 146, 110002.	1.8	3
1558	Recent insights into heterometal-doped copper oxide nanostructure-based catalysts for renewable energy conversion and generation. Renewable and Sustainable Energy Reviews, 2022, 168, 112887.	8.2	6
1559	Highly efficient super activated carbon supported ultra-low loading copper catalyst for the oxidative carbonylation of methanol to dimethyl carbonate. Molecular Catalysis, 2022, 531, 112694.	1.0	1
1560	Green synthesis of Cu/Fe ₃ O ₄ nanoparticles using green tea extract: Evaluation of its catalytic activity, antioxidant and anti-colon cancer effects. Inorganic Chemistry Communication, 2022, 144, 109927.	1.8	5
1561	CoO epitaxial growth on Cu(111) by reactive PVD and plasma oxidation. Surfaces and Interfaces, 2022, 34, 102364.	1.5	1
1562	Wide controllable range for the local surface plasmon resonance of Cu NWs. Optik, 2022, 269, 169851.	1.4	1
1563	Photoactivity, conversion kinetics, nanoreinforcement, post-curing, and electric/dielectric properties of functional 3D printable photopolymer resin filled with bare and alumina-doped ZnO nanoparticles. Polymer Testing, 2022, 116, 107798.	2.3	7
1564	Understanding the role of Cl doping in the oxygen evolution reaction on cuprous oxide by DFT. Physical Chemistry Chemical Physics, 2022, 24, 25347-25355.	1.3	2
1565	Excellent Electro-Catalytic Performance of Hierarchical Porous Ni-Cu Synthesized by Electrochemical Dealloying Toward Methanol Oxidation. SSRN Electronic Journal, 0, , .	0.4	0
1566	Cuprousiloxane as two self-assemblies, Cu ₂₀ O ₂₀ Si ₁₀ Me ₁₀ R ₁₀ and Cu ₂₄ O ₂₄ Si ₁₂ Me ₁₂ R ₁₂ , with catalytic property. Dalton Transactions, 2022, 51, 12432-12435.	1.6	0
1567	In vitro and in vivo toxicity of metal nanoparticles and their drug delivery applications. , 2022, , 367-421.		0
1568	Plant-Mediated Eco-Friendly Synthesis of Platinum Nanoparticles and Their Applications. , 2022, , 155-170.		1
1569	Green Synthesis of Plant-Assisted Manganese-Based Nanoparticles and Their Various Applications. , 2022, , 339-354.		3
1570	Pure copper nanoparticles prepared by coating-assisted vapor phase synthesis without agglomeration. RSC Advances, 2022, 12, 27820-27825.	1.7	0
1571	Efficient Manipulation of Plasmonic Modes in Single Symmetrybreaking Ag Nanocube. SSRN Electronic Journal, 0, , .	0.4	0
1572	Metallic Nanoparticles and Their Composites as Alternative Antibacterial Therapeutics. , 2022, , 329-353.		0
1573	Enzymes in Organic Synthesis. , 2022, , 317-352.		0
1574	Metal oxide engineering. , 2022, , 3-56.		2

#	ARTICLE	IF	CITATIONS
1575	Cuo Nps Catalyzed Synthesis of Quinolines, Pyridines, and Pyrroles Via Dehydrogenative Coupling Strategy. SSRN Electronic Journal, 0, , .	0.4	0
1576	Highly dispersed Cu nanoparticles on ceria for enhanced ethylene selectivity during electrochemical reduction of CO ₂ . New Journal of Chemistry, 2022, 46, 17244-17250.	1.4	1
1577	A simple synthesis of surfactant-free polycrystalline CuO nanoparticles supported on carbon nanofibers for regioselective hydroboration of alkynes. RSC Advances, 2022, 12, 24998-25005.	1.7	1
1578	Antimicrobial nanoparticles: Synthesis, mechanism of actions. , 2023, , 155-202.		4
1579	Redispersion of exsolved Cu nanoparticles on LaFeO ₃ photocatalyst for tunable photocatalytic CO ₂ reduction. Chemical Engineering Journal, 2023, 452, 139273.	6.6	14
1580	Sprouts-like Fe(OH) ₂ hetero-nanostructures assembly on selenium layered nickel foam (Ni@Se) as an efficient and durable catalyst for electro-oxidation of urea. International Journal of Hydrogen Energy, 2022, 47, 31420-31434.	3.8	2
1581	Noble-metal free plasmonic nanomaterials for enhanced photocatalytic applications—A review. Nano Research, 2022, 15, 10268-10291.	5.8	15
1582	Cu@Oxide Nanoparticles Catalyzed Synthesis of Nitriles and Amides from Alcohols and Ammonia in Presence of Air. Advanced Sustainable Systems, 2022, 6, .	2.7	2
1583	Fabrication of Electronics by Electrohydrodynamic Jet Printing. Advanced Electronic Materials, 2022, 8, .	2.6	7
1584	Biogenic Synthesis of Copper-Based Nanomaterials Using Plant Extracts and Their Applications: Current and Future Directions. Nanomaterials, 2022, 12, 3312.	1.9	14
1585	Antimicrobial and Detoxification Study of Novel Luminescent CuO Nanoparticles Synthesized by White Garland Lily Leaves Extract. BioNanoScience, 2022, 12, 1086-1096.	1.5	2
1586	Shape-Controlled Synthesis of Copper Nanocrystals for Plasmonic, Biomedical, and Electrocatalytic Applications. Accounts of Materials Research, 2022, 3, 1137-1148.	5.9	9
1587	Bottom-Up De Novo Synthesis of Porous Organic Polymers with Enone Functionalities as Supports for Pd and Cu Nanoparticles for Catalytic Tandem Synthesis. ACS Applied Nano Materials, 2022, 5, 14296-14310.	2.4	5
1588	Inexpensive and easily replicable precipitation of CuO nanoparticles for low temperature carbon monoxide and toluene catalytic oxidation. Heliyon, 2022, 8, e10689.	1.4	8
1589	Plasmonic Applications of Gold-Copper Bimetallic Alloy Nanoparticles. Plasmonics, 2022, 17, 2173-2186.	1.8	8
1590	Bioengineering of CuO porous (nano)particles: role of surface amination in biological, antibacterial, and photocatalytic activity. Scientific Reports, 2022, 12, .	1.6	8
1591	Transition-Metal-Catalyzed C—S, C—Se, and C—Te Bond Formations via Cross-Coupling and Atom-Economic Addition Reactions. Achievements and Challenges. Chemical Reviews, 2022, 122, 16110-16293.	23.0	95
1592	Ammonia Abatement via Selective Oxidation over Electron-Deficient Copper Catalysts. Environmental Science & Technology, 2022, 56, 14008-14018.	4.6	15

#	ARTICLE	IF	CITATIONS
1593	Intermetallic Nanocrystals: Seed-Mediated Synthesis and Applications in Electrocatalytic Reduction Reactions. Chemistry - A European Journal, 0, , .	1.7	4
1594	Cu-Au nanoparticles produced by the aggregation of gas-phase metal atoms for CO oxidation. Aggregate, 2022, 3, .	5.2	9
1596	Mono- and Bimetallic Nanoparticles for Catalytic Degradation of Hazardous Organic Dyes and Antibacterial Applications. ACS Omega, 2022, 7, 35023-35034.	1.6	17
1597	Annulation of N,N-dimethylanilines and maleimides catalyzed by reusable copper ferrite nanoparticles. Tetrahedron Letters, 2022, 107, 154108.	0.7	1
1598	Size-Dependent Threshold of the Laser-Induced Phase Transition of Colloidally Dispersed Copper Oxide Nanoparticles. Journal of Physical Chemistry C, 2022, 126, 15263-15273.	1.5	4
1599	Copper nanoparticles and their oxides: optical, anticancer and antibacterial properties. International Nano Letters, 2022, 12, 379-398.	2.3	25
1600	Dual Activation of Molecular Oxygen and Surface Lattice Oxygen in Single Atom Cu ₁ /TiO ₂ Catalyst for CO Oxidation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	29
1601	Nanoparticles of chromium oxide by green synthesis using Eucalyptus globulus leaves extract; characterization and biological activity studies. Materials Today: Proceedings, 2023, 79, 100-106.	0.9	4
1602	Sustained release catalysis: Dynamic copper releasing from stoichiometric spinel CuAl ₂ O ₄ during methanol steam reforming. Applied Catalysis B: Environmental, 2023, 323, 122043.	10.8	12
1603	Bimetallic CoNi Nanoflowers for Catalytic Transfer Hydrogenation of Terminal Alkynes. ChemistrySelect, 2022, 7, .	0.7	2
1604	Facile Synthesis of Triazoles using Electrospray-Deposited Copper Nanomaterials to Catalyze Azide-Alkyne Cycloaddition (AAC) Click Reactions. ChemPlusChem, 2022, 87, .	1.3	4
1605	Biogenic synthesis of CuO-NPs as nanotherapeutics approaches to overcome multidrug-resistant <i>Staphylococcus aureus</i> (MDRSA). Artificial Cells, Nanomedicine and Biotechnology, 2022, 50, 260-274.	1.9	4
1606	Dual Activation of Molecular Oxygen and Surface Lattice Oxygen in Single Atom Cu ₁ /TiO ₂ Catalyst for CO Oxidation. Angewandte Chemie, 2022, 134, .	1.6	7
1607	Efficient antibacterial activity in copper oxide nanoparticles biosynthesized <i>via</i> Jasminum sambac flower extract. Particulate Science and Technology, 2023, 41, 640-652.	1.1	6
1608	Recent progress in copper nanocatalysis for sustainable transformations. Current Opinion in Green and Sustainable Chemistry, 2022, 38, 100698.	3.2	2
1609	Valence-mixed CuOx-nanoparticles anchored biomass-based carbon nanofiber for boosting toxic nitroarenes reduction: Synthesis, kinetics, and mechanisms. Journal of Environmental Chemical Engineering, 2022, 10, 108689.	3.3	5
1610	Copper inks for printed electronics: a review. Nanoscale, 2022, 14, 16003-16032.	2.8	18
1611	Copper-catalyzed switchable cyclization of alkyne-tethered β -bromocarbonyls: selective access to quinolin-2-ones and quinoline-2,4-diones. Organic Chemistry Frontiers, 2022, 9, 6617-6623.	2.3	7

#	ARTICLE	IF	CITATIONS
1612	Experimental and Computational Studies on the Interaction of a Dansyl-Based Fluorescent Schiff Base Ligand with Cu ²⁺ Ions and CuO NPs. <i>International Journal of Molecular Sciences</i> , 2022, 23, 11565.	1.8	2
1613	Cu Nanoparticle-Based Solution and Paper Strips for Colorimetric and Visual Detection of Heavy Metal Ions. <i>ACS Omega</i> , 2022, 7, 37279-37285.	1.6	3
1614	Materials Perspectives of Integrated Plasmonic Biosensors. <i>Materials</i> , 2022, 15, 7289.	1.3	2
1615	A retrospect on recent research works in the preparation of zeolites catalyst from kaolin for biodiesel production. <i>Biofuels</i> , 2023, 14, 315-332.	1.4	5
1616	Plasmonic and Conductive Structures of TCO Films with Embedded Cu Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2022, 23, 11886.	1.8	2
1617	Water Saturated with Pressurized CO ₂ as a Tool to Create Various 3D Morphologies of Composites Based on Chitosan and Copper Nanoparticles. <i>Molecules</i> , 2022, 27, 7261.	1.7	1
1618	Electrochemically-grown Chloride-free Cu ₂ O nanocubes favorably electroreduce CO ₂ to Methane: The interplay of appropriate electrochemical protocol. <i>Electrochimica Acta</i> , 2022, 436, 141458.	2.6	5
1619	Noble metal nanoparticles dispersed on nanocellulose: a green platform for catalytic organic transformations. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1258, 012014.	0.3	4
1620	Metallic Copper as Dehalogenation Catalyst in the Treatment of Water and Wastewaters. , 0, , .		0
1621	Design and characterization of an urea-bridged PMO supporting Cu(II) nanoparticles as highly efficient heterogeneous catalyst for synthesis of tetrazole derivatives. <i>Scientific Reports</i> , 2022, 12, .	1.6	10
1622	Comprehensive Model for the Synthesis of Al_2O_3 Microsphere-Supported Bimetallic Iron- and Copper Oxide Materials. <i>ACS Omega</i> , 0, , .	1.6	0
1623	Excellent electrocatalytic performance toward methanol oxidation of hierarchical porous NiCu obtained by electrochemical dealloying. <i>Journal of Alloys and Compounds</i> , 2023, 934, 167811.	2.8	8
1624	Spinel ZnCr ₂ O ₄ nanorods synthesized by facile sol-gel auto combustion method with biomedical properties. <i>Journal of Sol-Gel Science and Technology</i> , 2023, 105, 176-185.	1.1	8
1625	Fabrication and Characterization of Cu Nanoparticles Dispersed on ZnAl-Layered Double Hydroxide Nanocatalysts for the Oxidation of Cyclohexane. <i>ACS Omega</i> , 2022, 7, 41058-41068.	1.6	5
1626	Directional growth of quasi-2D Cu ₂ O monocrystals on rGO membranes in aqueous environments. <i>IScience</i> , 2022, 25, 105472.	1.9	0
1627	Oxygen Spillover Effect at Cu/Fe ₂ O ₃ Heterointerfaces to Enhance Oxygen Electrocatalytic Reactions for Rechargeable Zn–Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 51222-51233.	4.0	10
1628	Enhanced selective hydrogenation of glycolaldehyde to ethylene glycol over Cu ₀ -Cu ⁺ sites. <i>Chinese Journal of Chemical Engineering</i> , 2023, 57, 141-150.	1.7	0
1629	Nanoparticles of magnesium oxyhydroxide and copper oxide: Synthesis and evaluation of their in vitro fungicidal activity on the fungus <i>Omphalia</i> sp.. <i>Inorganic Chemistry Communication</i> , 2022, 146, 110085.	1.8	4

#	ARTICLE	IF	CITATIONS
1630	Other metal nanoclusters. , 2023, , 497-518.		0
1631	Fungal synthesis of copper nanoparticles and their applications in agri-food, environmental, and biomedical sectors. , 2023, , 91-114.		0
1632	Cu-doped MoSi ₂ N ₄ monolayer as a highly efficient catalyst for CO reduction toward C ₂ + products. Applied Surface Science, 2023, 609, 155332.	3.1	6
1633	Synthesis and phase-engineering of ultrathin two-dimensional nanomaterials. , 2022, , .		0
1634	Efficient manipulation of plasmonic modes in single symmetry-breaking Ag nanocube. Applied Surface Science, 2023, 611, 155650.	3.1	2
1635	Tetracycline degradation by efficient synergistic bio-templated CuO photocatalysis and Fenton hybrid process irradiated by visible light: influential parameters, and mechanisms. Journal of Materials Science: Materials in Electronics, 2022, 33, 25603-25618.	1.1	2
1636	Ascorbate oxidase-like nanozyme with high specificity for inhibition of cancer cell proliferation and online electrochemical DOPAC monitoring. Biosensors and Bioelectronics, 2023, 220, 114893.	5.3	7
1637	Microstructural investigation of sonochemically synthesized Zn substituted CuFe ₂ O ₄ nanoparticles for heterogeneous green catalytic click chemistry and dye degradation. Journal of Molecular Structure, 2023, 1274, 134493.	1.8	10
1638	Oxygen evolution reaction enhancement of copper electrodes in alkaline medium using ultrafast femtosecond laser structuring. International Journal of Hydrogen Energy, 2024, 52, 2-13.	3.8	5
1639	Constructing asymmetric unsaturated copper coordination in Zinc(II)/Copper(I, II)-based metal-organic framework toward productive CO ₂ -to-methanol photocatalytic conversion from CO ₂ -capturing solution. Applied Catalysis A: General, 2023, 650, 118970.	2.2	5
1640	Facile Microwave Synthesis of Hierarchical Porous Copper Oxide and Its Catalytic Activity and Kinetics for Carbon Monoxide Oxidation. ACS Omega, 2022, 7, 44021-44032.	1.6	2
1641	Productive and Sustainable H ₂ Production from Waste Aluminum Using Copper Oxides-Based Graphene Nanocatalysts: A Techno-Economic Analysis. Sustainability, 2022, 14, 15256.	1.6	3
1642	Au-catalyzed ultrathin copper nanowires. Journal of Materials Chemistry A, 2022, 10, 25431-25436.	5.2	2
1643	Ce-catalyzed regioselective synthesis of pyrazoles from 1,2-diols <i>via</i> tandem oxidation and C-C/N bond formation. Organic and Biomolecular Chemistry, 2022, 21, 59-64.	1.5	5
1644	Influence of the zeolite support on the catalytic properties of confined metal clusters: a periodic DFT study of O ₂ dissociation on Cu _n clusters in CHA. Physical Chemistry Chemical Physics, 2022, 24, 30044-30050.	1.3	2
1645	Electrochemical synthesis of copper-arabinoxylan nanocomposite for applications as antimicrobial agent and CO ₂ conversion catalyst. Arabian Journal of Chemistry, 2023, 16, 104442.	2.3	1
1646	Synthesis and antimicrobial activity of CuO@BaO/CaO nanocomposites using precipitation method. Journal of the Indian Chemical Society, 2023, 100, 100842.	1.3	2
1647	Electrochemical Fe(III) mediation for reducing hexavalent chromium Cr(VI) on templated copper-nickel foam electrode. Journal of Cleaner Production, 2023, 384, 135596.	4.6	2

#	ARTICLE	IF	CITATIONS
1648	Metallic nanoparticles as effective sensors of bio-molecules. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2023, 288, 122207.	2.0	7
1649	Green synthesis and characterization of copper nanoparticles using <i>Phragmanthera austroarabica</i> extract and their biological/environmental applications. <i>Sustainable Materials and Technologies</i> , 2023, 35, e00540.	1.7	14
1650	Experimental and theoretical study on the regioselective bis- or polyalkylation of 6-amino-2-mercapto-3 <i>H</i> -pyrimidin-4-one using zeolite nano-gold catalyst and a quantum hybrid computational method. <i>RSC Advances</i> , 2022, 12, 35794-35808.	1.7	2
1651	Fabrication of polydopamine reduced CuO nanoparticle-“alginate composite nanogels for management of <i>Pseudomonas syringae</i> pv. <i>tabaci</i> in tobacco. <i>Pest Management Science</i> , 2023, 79, 1213-1224.	1.7	2
1652	More than One Century of History for Photocatalysis, from Past, Present and Future Perspectives. <i>Catalysts</i> , 2022, 12, 1572.	1.6	3
1653	Development of Electrochemical Biosensor Platforms for Determination of Environmental Viral Structures. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 12971.	1.3	2
1654	Spatiotemporal Ultrasound-Driven Bioorthogonal Catalytic Therapy. <i>Advanced Materials</i> , 2023, 35, .	11.1	12
1655	Investigation of the characteristics of Cu_2O particles obtained by a plasma-liquid process. <i>Pigment and Resin Technology</i> , 2022, ahead-of-print, .	0.5	0
1656	Prospects of Utilizing Quantum Emitters to Control the Absorption of Non-Noble Plasmonic Metal Nanoparticles. <i>Annalen Der Physik</i> , 2023, 535, .	0.9	2
1657	Preparation of benzoxazoles and benzothiazoles utilizing naturally occurring copper-containing mineral catalyst precursors. <i>Tetrahedron Letters</i> , 2022, , 154319.	0.7	0
1658	Modulation of the Photophysics of Nucleotide-Functionalized Copper Nanoclusters Using Aqueous Binary Mixtures. <i>Journal of Physical Chemistry C</i> , 2022, 126, 21319-21327.	1.5	2
1659	Emerging 2D Copper-Based Materials for Energy Storage and Conversion: A Review and Perspective. <i>Small</i> , 2023, 19, .	5.2	21
1660	Low dimensional nanomaterials for treating acute kidney injury. <i>Journal of Nanobiotechnology</i> , 2022, 20, .	4.2	5
1661	Machine Learning Assisted Clustering of Nanoparticle Structures. <i>Journal of Chemical Information and Modeling</i> , 2023, 63, 459-473.	2.5	5
1663	Hydrogen Spillover-Promoted Hydrogen Evolution onto Copper. <i>ChemCatChem</i> , 2023, 15, .	1.8	1
1664	Enhanced Visible-Light-Responsive Photocatalytic Degradation of Ciprofloxacin by the Cu_2O /Metal-Organic Framework Hybrid Nanocomposite. <i>Nanomaterials</i> , 2023, 13, 282.	1.9	7
1665	The role of femtosecond laser parameters on the fabrication of copper nanoparticles. , 2022, , .		0
1666	Gold Extracted from Wastewater as an Efficient MOF-Supported Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	2

#	ARTICLE	IF	CITATIONS
1667	Copper-Treated Environmentally Friendly Antipathogenic Cotton Fabric with Modified Reactive Blue 4 Dye to Improve Its Antibacterial and Aesthetic Properties. <i>Coatings</i> , 2023, 13, 133.	1.2	2
1668	Synthesis, biomedical applications, and toxicity of CuO nanoparticles. <i>Applied Microbiology and Biotechnology</i> , 2023, 107, 1039-1061.	1.7	36
1669	Copper oxide nanoparticles: Synthesis via chemical reduction, characterization, antibacterial activity, and possible mechanism involved. <i>Inorganic Chemistry Communication</i> , 2023, 149, 110372.	1.8	15
1670	Biopolymers: Building Blocks for the Synthesis of Advanced Materials. , 2023, , 1-13.		0
1671	Perspectives of Foam Generation Techniques and Future Directions of Nanoparticle-Stabilized CO ₂ Foam for Enhanced Oil Recovery. <i>Energy & Fuels</i> , 2023, 37, 1472-1494.	2.5	16
1672	Ligand Decomposition during Nanoparticle Synthesis: Influence of Ligand Structure and Precursor Selection. <i>Chemistry of Materials</i> , 2023, 35, 570-583.	3.2	4
1673	Nanozymes for Glucose Sensing and Diabetes Management. <i>Environmental Chemistry for A Sustainable World</i> , 2023, , 51-80.	0.3	0
1674	Lattice Mismatch-Induced Formation of Copper Nanoplates with Embedded Ultrasmall Platinum or Palladium Cores for Tunable Optical Properties. <i>Small</i> , 2023, 19, .	5.2	1
1675	Gold Extracted from Wastewater as an Efficient MOF-Supported Electrocatalyst. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	2
1677	Analysis of size and concentration of nanoparticles contained in cutting fluid during turning of 316L steel in minimum quantity lubrication conditions. <i>Journal of Manufacturing Processes</i> , 2023, 87, 106-122.	2.8	7
1678	Remarkable reactivity of Fe modified Cu(100) surface towards CO ₂ decomposition: A DFT study. <i>Materials Today Communications</i> , 2023, 34, 105395.	0.9	3
1679	CuBi bimetallic aerogel as peroxidase-like nanozyme for total antioxidant capacity colorimetric detection. <i>Sensors and Actuators B: Chemical</i> , 2023, 379, 133249.	4.0	7
1680	A Review on Low-Dimensional Nanomaterials: Nanofabrication, Characterization and Applications. <i>Nanomaterials</i> , 2023, 13, 160.	1.9	17
1681	Efficient and Reusable Benzimidazole Based Sulphonic Acid Functionalized Porphyrin Photocatalyst for C-N Bond Formation Under Visible Light Irradiation. <i>Catalysis Letters</i> , 2023, 153, 3230-3255.	1.4	3
1682	High-Temperature Interaction between Carbon Fibers and Cu-Ag Eutectic Alloy. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2022, 31, 188-194.	0.2	0
1683	Can graphene improve the thermal conductivity of copper nanofluids?. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 5489-5500.	1.3	2
1684	Navigating CO utilization in tandem electrocatalysis of CO ₂ . <i>Trends in Chemistry</i> , 2023, 5, 252-266.	4.4	4
1685	Contemporary progress in the green synthesis of spiro-thiazolidines and their medicinal significance: a review. <i>RSC Advances</i> , 2023, 13, 3723-3742.	1.7	8

#	ARTICLE	IF	CITATIONS
1686	A review on the recent advancements in nanomaterials for <scp>nonenzymatic</scp> lactate sensing. Bulletin of the Korean Chemical Society, 2023, 44, 407-419.	1.0	2
1687	A stable superatomic Cu ₆ (SMPP) ₆ nanocluster with dual emission. Nanoscale, 2023, 15, 4137-4142.	2.8	0
1688	Targeting Apoptotic Pathway of Cancer Cells with Phytochemicals and Plant-Based Nanomaterials. Biomolecules, 2023, 13, 194.	1.8	32
1689	Synthesis, Characterization, and Evaluation of Antimicrobial Efficacy of Reduced Grapheneâ€“ZnOâ€“Copper Nanocomplex. Antibiotics, 2023, 12, 246.	1.5	4
1690	Controlled oxidation of Cu particles by H ₂ O ₂ to form Cu/CuO nanostructure with enhanced gas sensing performance. Applied Surface Science, 2023, 618, 156668.	3.1	5
1691	An ionic gel incorporating copper nanodots with antibacterial and antioxidant dual functions for deep tissue penetration treatment of periodontitis in rats. Biomaterials Science, 2023, 11, 3547-3560.	2.6	1
1692	Nonenzymatic Electrochemical Glutamate Sensor Using Copper Oxide Nanomaterials and Multiwall Carbon Nanotubes. Biosensors, 2023, 13, 237.	2.3	6
1693	Nâ€“Heterocyclic Imineâ€“Supported Bimetallic Cu(II) Catalyst for Azideâ€“Alkyne Cycloaddition: Solventâ€“free, Reductantâ€“free, ppmâ€“level Catalysis to Access 1,4â€“Disubstituted Triazoles. Chemistry - an Asian Journal, 2023, 18, .	1.7	5
1694	DFT Study of CO ₂ Reduction Reaction to CH ₃ OH on Low-Index Cu Surfaces. Catalysts, 2023, 13, 722.	1.6	3
1695	Recent developments in antimicrobial surface coatings: Various deposition techniques with nanosized particles, their application and environmental concerns. Trends in Food Science and Technology, 2023, 135, 144-172.	7.8	8
1696	One-pot pyrolysis and enhanced efficient solar evaporation of Cu/Cu ₂ O/biochar. Materials Today Sustainability, 2023, 22, 100363.	1.9	0
1697	Casting of high surface area electrodes enabled by low-temperature welding of copper nanoporous powders and nanoparticles hybrid feedstocks. Applied Materials Today, 2023, 32, 101802.	2.3	0
1698	Novel strategy for copper precipitation from cupric complexes wastewater: Catalytic oxidation or reduction self-decomplexation?. Journal of Hazardous Materials, 2023, 452, 131183.	6.5	2
1699	Time dependent investigation of copper colloids SERS-activity. Materials Today Communications, 2023, 35, 105722.	0.9	2
1700	Cu(â€“) anchoring in MOF-808 as a stable catalyst in ultra-deep oxidation desulfurization. Fuel, 2023, 341, 127674.	3.4	6
1701	Tumor microenvironment-triggered intratumoral in-situ biosynthesis of inorganic nanomaterials for precise tumor diagnostics. Coordination Chemistry Reviews, 2023, 484, 215115.	9.5	13
1702	Copper nanoparticles growth on the borophosphate glass surface by bottom-up approach: A catalyst for click reactions. Journal of Non-Crystalline Solids, 2023, 610, 122303.	1.5	1
1703	Combinatorial tuning of work function and optical properties in CuZnSe thin films for efficient bifacial CdTe solar cells. Solar Energy Materials and Solar Cells, 2023, 255, 112312.	3.0	4

#	ARTICLE	IF	CITATIONS
1704	Cu(Mn)MgAl mixed oxides with enhanced performance for simultaneous removal of NO _x and toluene: Insight into the better collaboration of CuO and MnO _x via layered double hydroxides (LDHs) precursor template. Chemical Engineering Journal, 2023, 462, 142150.	6.6	15
1705	Towards sustainable mass production of metallic nanoparticles: Selective synthesis of copper nanoparticles directly from malachite ore. Minerals Engineering, 2023, 196, 108048.	1.8	3
1706	Emerging catalysts for the ambient synthesis of ethylene glycol from CO ₂ and its derivatives. Chemical Communications, 2023, 59, 2711-2725.	2.2	2
1707	Insight into radical-nonradical coupling activation pathways of peroxymonosulfate by Cu _x O for antibiotics degradation. Chemosphere, 2023, 318, 137970.	4.2	6
1708	A Review of Bimetallic and Monometallic Nanoparticle Synthesis via Laser Ablation in Liquid. Crystals, 2023, 13, 253.	1.0	22
1709	Unsupported Copper Nanoparticles in the Arylation of Amines. Catalysts, 2023, 13, 331.	1.6	5
1710	Copper (II) anchored on layered double hydroxide functionalized guanidine as a heterogeneous catalyst for the synthesis of tetrazole derivatives. Colloids and Interface Science Communications, 2023, 53, 100704.	2.0	4
1711	The Structure of Nanocomposites with Bimetallic Cu@Ni Nanoparticles Obtained by Chemical Reduction. Crystallography Reports, 2022, 67, 987-995.	0.1	0
1712	Catalytic effect of DMSO in metal-catalyzed radical polymerization mediated by disproportionation facilitates living and immortal radical polymerizations. Journal of Polymer Science, 2023, 61, 959-978.	2.0	5
1713	Catalytic (copper) hydrothermal liquefaction for lignin to produce high quality bio-oil and nano Cu carbon hybrids material. Chemical Engineering Science, 2023, 270, 118548.	1.9	11
1714	Hydrothermal-assisted synthesis and characterization of MWCNT/copper oxide nanocomposite for the photodegradation of methyl orange under direct sunlight. Diamond and Related Materials, 2023, 134, 109778.	1.8	4
1715	Copper-deposited diatom-biosilica enhanced osteogenic potential in periodontal ligament stem cells and rat cranium. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2023, 111, 1286-1298.	1.6	2
1716	Electrochemical Sensing of Gallic Acid in Beverages Using a 3D Bio-Nanocomposite Based on Carbon Nanotubes/Spongin-Atacamite. Biosensors, 2023, 13, 262.	2.3	4
1717	Synergistic effect of cocatalyst and S-scheme heterojunction over 2D/2D g-C ₃ N ₄ /MoS ₂ heterostructure coupled Cu nanoparticles for selective photocatalytic CO ₂ reduction to CO under visible light irradiation. Journal of Environmental Chemical Engineering, 2023, 11, 109545.	3.3	13
1718	Polystyrene Resins: Versatile and Economical Support for Heterogeneous Nanocatalysts in Sustainable Organic Reactions**. ChemCatChem, 2023, 15, .	1.8	1
1719	Antifungal activity against plant pathogens of purely microwave-assisted copper nanoparticles using Citrus grandis peel. Applied Nanoscience (Switzerland), 0, , .	1.6	0
1720	A novel approach toward the bio-inspired synthesis of CuO nanoparticles for phenol degradation and antimicrobial applications. Biomass Conversion and Biorefinery, 0, , .	2.9	12
1721	Achieving Good Bonding Strength of the Cu Layer on PET Films by Pretreatment of a Mixed Plasma of Carbon and Copper. ACS Applied Materials & Interfaces, 2023, 15, 12590-12602.	4.0	2

#	ARTICLE	IF	CITATIONS
1722	Scalable synthesis of Cu clusters for remarkable selectivity control of intermediates in consecutive hydrogenation. <i>Nature Communications</i> , 2023, 14, .	5.8	10
1723	Green Synthesis of Copper Nanoparticles Using Red Dragon Fruit (<i>Hylocereus polyrhizus</i>) Extract and Its Antibacterial Activity for Liquid Disinfectant. <i>Jurnal Kimia Sains Dan Aplikasi</i> , 2022, 25, 352-361.	0.1	0
1724	Bimetallic BaTiO ₃ and Cu nanoparticle synthesis via pulsed laser ablation in liquid of powder targets. <i>Results in Engineering</i> , 2023, 17, 100994.	2.2	4
1725	Catalysis of surface dispersed Cu ²⁺ species on t-ZrO ₂ : square-planar Cu catalyzed cross-coupling of arylboronic acid and imidazole. <i>Catalysis Science and Technology</i> , 2023, 13, 2247-2254.	2.1	4
1726	Plant-Derived Metal Nanoparticles (PDMNPs): Synthesis, Characterization, and Oxidative Stress-Mediated Therapeutic Actions. <i>Future Pharmacology</i> , 2023, 3, 252-295.	0.6	5
1727	Biogenic selenium nanoparticles: trace element with promising anti-toxoplasma effect. <i>Pathogens and Global Health</i> , 2023, 117, 639-654.	1.0	3
1728	Eco-Friendly Synthesis of Ni/NiO Nanoparticles Using <i>Gymnema sylvestre</i> Leaves Extract for Antifungal Activity. <i>Journal of Composites Science</i> , 2023, 7, 105.	1.4	5
1729	Plasmonic Au-Cu nanostructures: Synthesis and applications. <i>Frontiers in Chemistry</i> , 0, 11, .	1.8	2
1730	Safe Functional Modified CuO Nanoparticles?. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 3425.	1.3	0
1731	Exploration of water conveying carbon nanotubes, graphene, and copper nanoparticles on impermeable stagnant and moveable walls experiencing variable temperature: thermal analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2023, 148, 4513-4522.	2.0	10
1732	Self-Assembled Chiral Copper Superstructures with Enhanced Circularly Polarized Light Emission. <i>Advanced Optical Materials</i> , 2023, 11, .	3.6	1
1733	One-pot synthesis of CuO/TiO ₂ nanocomposites for improved photocatalytic hydrogenation of 4-nitrophenol to 4-aminophenol under direct sunlight. <i>Journal of the Chinese Chemical Society</i> , 2023, 70, 848-856.	0.8	1
1734	Investigation of the Dependence of Electrocatalytic Activity of Copper and Palladium Nanoparticles on Morphology and Shape Formation. <i>Coatings</i> , 2023, 13, 621.	1.2	5
1735	How ligand coordination and superatomic-states accommodate the structure and property of a metal cluster: Cu ₄ (dppy) ₄ Cl ₂ vs. Cu ₂₁ (dppy) ₁₀ with altered photoluminescence. <i>Chinese Chemical Letters</i> , 2023, , 108340.	4.8	0
1736	Reversibly Modulating Plasmon-mediated Chemical Reaction via Electrode Potential on Reliable Copper Nanoelectrode. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	4
1737	Reversibly Modulating Plasmon-mediated Chemical Reaction via Electrode Potential on Reliable Copper Nanoelectrode. <i>Angewandte Chemie</i> , 0, , .	1.6	0
1738	Role of copper nanostructures in household and clinical settings: past to present outlook. , 2023, , 245-265.		0
1739	Nanoparticles in multicomponent reactions toward green organic synthesis. , 2023, , 75-102.		0

#	ARTICLE	IF	CITATIONS
1740	Aminolevulinic Acid Coated Silver, Copper, and Silver-Copper Nanoparticles: Synthesis, Characterization, and Application in Seed Nanoprimer. Journal of Plant Growth Regulation, 2023, 42, 5842-5854.	2.8	2
1741	Bio-inspired synthesis of CdO nanoparticles using Citrus limetta peel extract and their diverse biomedical applications. Journal of Drug Delivery Science and Technology, 2023, 82, 104373.	1.4	10
1742	Exploring the untapped catalytic application of a ZnO/CuI/PPy nanocomposite for the green synthesis of biologically active 2,4,5-trisubstituted imidazole scaffolds. Nanoscale Advances, 2023, 5, 2352-2360.	2.2	1
1743	Methods for the Preparation of Silica and Its Nanoparticles from Different Natural Sources. Biological Trace Element Research, 2023, 201, 5871-5883.	1.9	3
1744	Efficient recyclable Cu-catalysts for click reaction and Chan-Lam coupling based on copolymers of N-vinylimidazole with N-vinylcaprolactam. Molecular Catalysis, 2023, 541, 112915.	1.0	1
1745	Structure and electrochemical properties of CuO-ZnO nanocomposite produced by the one-step novel discharge process. Journal of Taibah University for Science, 2023, 17, .	1.1	3
1746	Pd-Nanoparticles-Catalyzed C(sp ²)-H Arylation for the Synthesis of Functionalized Heterocycles: Recent Progress and Prospects. Synthesis, 2024, 56, 611-638.	1.2	2
1747	Cost-Effective Biosynthesis and Characterization of Encapsulated Cu, Ag, and Magnetic Cu-Ag Bimetallic Nanoparticles for Biomedical Applications. BioNanoScience, 2023, 13, 481-492.	1.5	1
1748	Catalytic transformation of 4-nitrophenol into 4-aminophenol over ZnO nanowire array-decorated Cu nanoparticles. Green Chemical Engineering, 2024, 5, 205-212.	3.3	1
1749	Selectively anchoring Cu(OH) ₂ and CuO on amine-modified brookite TiO ₂ for enhanced CO ₂ photoreduction. Carbon Letters, 2023, 33, 1395-1406.	3.3	3
1750	Structural and Thermodynamic Behaviors of Cu ₂ Ag ₂ (Cu ₂) Tj ETQqO O O rgBT /Overlock 10 ACS Applied Nano Materials, 2023, 6, 6388-6397.	2.4	1
1751	Roughness-Dependent Electro-Reductive Coupling of Nitrobenzenes and Aldehydes on Copper Electrodes. ChemSusChem, 2023, 16, .	3.6	4
1752	A Mini-Review of Synthetic Organic and Nanoparticle Antimicrobial Agents for Coatings in Textile Applications. Coatings, 2023, 13, 693.	1.2	8
1753	Photoluminescence properties of copper selenide nanoparticles for red LEDs and lasers. MRS Advances, 2023, 8, 960-968.	0.5	3
1754	Alkoxide-Decorated Copper Nanoparticles on Amidine-Modified Polymers as Hydrogenation Catalysts for Enabling H ₂ Heterolysis. ACS Catalysis, 2023, 13, 5159-5169.	5.5	1
1755	A Recoverable PANI/±-Fe ₂ O ₃ Nanocatalyst for Ultrasound-Assisted Knoevenagel Condensation. Asian Journal of Chemistry, 2023, 35, 942-950.	0.1	1
1756	Recent progress of Cu-based electrocatalysts for upgrading biomass-derived furanic compounds. Catalysis Science and Technology, 2023, 13, 2899-2921.	2.1	4
1757	Colloidal metal nanocatalysts to advance orange II hydrogenolysis tracked by a microplate reader. Reaction Kinetics, Mechanisms and Catalysis, 2023, 136, 1005-1019.	0.8	0

#	ARTICLE	IF	CITATIONS
1758	Oxidizationâ€Temperatureâ€Triggered Rapid Preparation of Largeâ€Area Singleâ€Crystal Cu(111) Foil. Advanced Materials, 2023, 35, .	11.1	4
1759	DFT Investigations on the Interactions Between Pyrimidine Derivatives and Ag/Au/Cu Metal Clusters: Solvation Effects and Reactivity Analysis. Journal of Cluster Science, 2023, 34, 2847-2858.	1.7	3
1760	Copperâ€based nanoparticles against microbial infections. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2023, 15, .	3.3	6
1761	Design and Synthesis of Copper Nanobiomaterials with Antimicrobial Properties. ACS Bio & Med Chem Au, 2023, 3, 349-358.	1.7	4
1762	High throughput discovery of ternary Cuâ€Feâ€Ru alloy catalysts for photo-driven hydrogen production. Reaction Chemistry and Engineering, 2023, 8, 1738-1746.	1.9	1
1763	Impact of Postprocessing Approaches and Interface Cocatalysts Regulation on Photocatalytic Hydrogen Evolution of Protonic Titanate Derived TiO ₂ Nanostructures. Advanced Energy and Sustainability Research, 0, , .	2.8	0
1764	Green synthesis of CeVO ₄ nanoparticles using Azadirachta indica leaves extract and their promising applications as an antioxidant and anticancer agent. Journal of Sol-Gel Science and Technology, 2023, 106, 726-736.	1.1	7
1765	Light-Mediated Synthesis of Aliphatic Anhydrides by Cu-Catalyzed Carbonylation of Alkyl Halides. Journal of the American Chemical Society, 2023, 145, 9423-9427.	6.6	7
1766	<i>In Situ</i> Generation of Copper Nanoparticleâ€Graphitic Carbon Nitride Composite for Stereoselective Transfer Semihydrogenation of Alkynes: Evaluation of Catalytic Activity Using Fluorescenceâ€Based Highâ€Throughput Screening. Advanced Synthesis and Catalysis, 2023, 365, 1505-1513.	2.1	1
1767	Matched Ligands for Small, Stable Colloidal Nanoparticles of Copper, Cuprous Oxide and Cuprous Sulfide. Chemistry - A European Journal, 2023, 29, .	1.7	2
1768	Metal-based nanosystems and the evaluation of their antimicrobial activity. , 2023, , 149-190.		0
1781	Metal nanoparticles for sensing applications. , 2023, , 311-366.		0
1788	Cu-catalysed Chanâ€Evansâ€Lam reaction meets deep eutectic solvents: efficient and selective Câ€N bond formation under aerobic conditions at room temperature. , 2023, 1, 847-852.		2
1812	Nanoadsorbents for Treatment of Wastewater. , 2023, , 133-163.		0
1813	Impact of metal oxide nanoparticles against biotic stress in plants. , 2023, , 101-140.		0
1818	Biopolymers: Building Blocks for the Synthesis of Advanced Materials. , 2023, , 1335-1347.		0
1819	Photothermal Nanomaterials: A Powerful Light-to-Heat Converter. Chemical Reviews, 2023, 123, 6891-6952.	23.0	137
1824	Nanoparticle synthesis, characterization and applications. , 2023, , 13-40.		0

#	ARTICLE	IF	CITATIONS
1834	Reusable nano-catalyzed green protocols for the synthesis of quinoxalines: an overview. RSC Advances, 2023, 13, 20373-20406.	1.7	2
1837	NHC stabilized copper nanoparticles<i>via</i>reduction of a copper NHC complex. Chemical Communications, 2023, 59, 9738-9741.	2.2	1
1840	Rapid synthesis and antioxidant activity of copper nanoparticles using rambutan peel extract with ultrasound assistance. Emergent Materials, 0, , .	3.2	1
1855	Nanoparticles, nanocomposites, green/eco-composites, and hybrid composites and their applications in energy sectors. , 2023, , .		1
1867	Copper nanoparticle-embellished Zr-based metalâ€‘organic framework for electrocatalytic hydrogen evolution reaction. Chemical Communications, 2023, 59, 10444-10447.	2.2	3
1878	Green Synthesis of Microbial Nanoparticles. , 2023, , 331-350.		0
1899	A review on the role of nano catalyst and organic catalyst in the development of benzimidazole derivatives. AIP Conference Proceedings, 2023, , .	0.3	0
1924	Nanoparticle-Based Drug Delivery System for Beginners. , 2023, , 557-580.		0
1925	Evolving approaches in glioma treatment: harnessing the potential of copper metabolism modulation. RSC Advances, 2023, 13, 34045-34056.	1.7	0
1935	Advanced High-Entropy Alloys: A Next Generation Materials. , 0, , .		1
1937	Biogenic Nanomaterials: Synthesis, Characterization and Its Potential in Dye Remediation. Environmental Science and Engineering, 2023, , 221-245.	0.1	0
1949	Unveiling the bifunctional role of morphological differences of self-supported Cu(OH)₂ in electrocatalysis. Journal of Materials Chemistry A, 2023, 11, 25854-25858.	5.2	1
1960	ROS-generating nanoplatforms as selective and tunable therapeutic weapons against cancer. , 2023, 18, .		0
1998	Selenium-silk microgels as antifungal and antibacterial agents. Nanoscale Horizons, 2024, 9, 609-619.	4.1	0
2013	Ethical and Environmental Implications Associated With the Application of Nanotechnology. Advances in Chemical and Materials Engineering Book Series, 2024, , 274-299.	0.2	0
2014	Metal organic frameworkâ€‘based variable-size nanoparticles for tumor microenvironment-responsive drug delivery. Drug Delivery and Translational Research, 0, , .	3.0	1
2015	Copper Metabolism and Cuproptosis: Molecular Mechanisms and Therapeutic Perspectives in Neurodegenerative Diseases. Current Medical Science, 2024, 44, 28-50.	0.7	3
2026	CuO Nanoparticles for Antimicrobial/Antiviral Applications. Nanotechnology in the Life Sciences, 2024, , 97-118.	0.4	0

#	ARTICLE	IF	CITATIONS
---	---------	----	-----------