Copperâ€“Oxygen Complexes Revisited: Structures, Sp

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Citation Report

#	Article	IF	Citations
2	Second-Order Biomimicry: In Situ Oxidative Self-Processing Converts Copper(I)/Diamine Precursor into a Highly Active Aerobic Oxidation Catalyst. ACS Central Science, 2017, 3, 314-321.	5.3	43
3	Record Broken: A Copper Peroxide Complex with Enhanced Stability and Faster Hydroxylation Catalysis. Chemistry - A European Journal, 2017, 23, 12171-12183.	1.7	32
4	Tunable Aerobic Oxidative Hydroxylation/Dehydrogenative Homocoupling of Pyrazol-5-ones under Transition-Metal-Free Conditions. Organic Letters, 2017, 19, 2618-2621.	2.4	23
5	Oâ€“O Bond Activation in Cu- and Fe-Based Coordination Complexes: Breaking It Makes the Difference. Advances in Inorganic Chemistry, 2017, , 63-105.	0.4	2
6	Catalytic Applications of Pyridineâ€Containing Macrocyclic Complexes. European Journal of Inorganic Chemistry, 2017, 2017, 3589-3603.	1.0	46
7	A Highâ€Valent Nonâ€Heme Î¼â€Oxo Manganese(IV) Dimer Generated from a Thiolateâ€Bound Manganese(II) Complex and Dioxygen. Angewandte Chemie - International Edition, 2017, 56, 8211-8215.	7.2	29
8	Structural Basis for Copperâ€“Oxygen Mediated Câ^'H Bond Activation by the Formylglycineâ€Generating Enzyme. Angewandte Chemie, 2017, 129, 8227-8231.	1.6	10
9	Structural Basis for Copperâ€“Oxygen Mediated Câ^'H Bond Activation by the Formylglycineâ€Generating Enzyme. Angewandte Chemie - International Edition, 2017, 56, 8115-8119.	7.2	34
10	Specific Enhancement of Catalytic Activity by a Dicopper Core: Selective Hydroxylation of Benzene to Phenol with Hydrogen Peroxide. Angewandte Chemie - International Edition, 2017, 56, 7779-7782.	7.2	77
11	Oxygen Activation by Copper Complexes with an Aromatic Bis(guanidine) Ligand. European Journal of Inorganic Chemistry, 2017, 2017, 3350-3359.	1.0	19
12	Determination of the Cu(III)â€“OH Bond Distance by Resonance Raman Spectroscopy Using a Normalized Version of Badgerâ€™s Rule. Journal of the American Chemical Society, 2017, 139, 4477-4485.	6.6	50
13	Copper-Mediated Câ€“X Functionalization of Aryl Halides. Organic Process Research and Development, 2017, 21, 1889-1924.	1.3	80
14	Direct Determination of Electronâ€Transfer Properties of Dicopperâ€Bound Reduced Dioxygen Species by a Cryoâ€Spectroelectrochemical Approach.. Chemistry - A European Journal, 2017, 23, 18314-18319.	1.7	12
15	A competing, dual mechanism for catalytic direct benzene hydroxylation from combined experimental-DFT studies. Chemical Science, 2017, 8, 8373-8383.	3.7	30
16	Trapping of superoxido cobalt and peroxido dicobalt species formed reversibly from Co^{II} and O₂. Chemical Communications, 2017, 53, 11782-11785.	2.2	33
17	Reactivity of Copper Complexes with Bis(piperidinyl)methane and Bis(quinolinyl)methane Ligands. European Journal of Inorganic Chemistry, 2017, 2017, 4246-4258.	1.0	10
18	Reactivity of a stable copperâ€“dioxygen complex. Chemical Communications, 2017, 53, 10306-10309.	2.2	33
19	Formally Copper(III)â€“Alkylperoxo Complexes as Models of Possible Intermediates in Monooxygenase Enzymes. Journal of the American Chemical Society, 2017, 139, 10220-10223.	6.6	52

#	Article	IF	Citations
20	A Structurally Characterized Cu^{III} Complex Supported by a Bis(anilido) Ligand and Its Oxidative Catalytic Activity. Chemistry - A European Journal, 2017, 23, 13929-13940.	1.7	13
21	Nucleophilic reactivity of copper(<scp>ii</scp>)â€“alkylperoxo complexes. Chemical Communications, 2017, 53, 9328-9331.	2.2	32
22	A Highâ€Valent Nonâ€Heme Î¼â€Oxo Manganese(IV) Dimer Generated from a Thiolateâ€Bound Manganese(II) Complex and Dioxygen. Angewandte Chemie, 2017, 129, 8323-8327.	1.6	10
23	A Series of Copper Complexes of a Dinucleating Bis(tetradentate) Nitrogen Ligand: Synthesis, Structural, Spectroscopic, Electrochemical, and Magnetic Characterization. European Journal of Inorganic Chemistry, 2017, 2017, 3570-3579.	1.0	11
24	Copper-Catalyzed Aerobic Oxidative Regioselective Thiocyanation of Aromatics and Heteroaromatics. Journal of Organic Chemistry, 2017, 82, 9312-9320.	1.7	94
25	Molecular Oxygen-Mediated Minisci-Type Radical Alkylation of Heteroarenes with Boronic Acids. Organic Letters, 2017, 19, 6594-6597.	2.4	80
26	Hybrid compounds assembled from copper-triazole complexes and phosphomolybdic acid as advanced catalysts for the oxidation of olefins with oxygen. Dalton Transactions, 2017, 46, 16655-16662.	1.6	20
27	Specific Enhancement of Catalytic Activity by a Dicopper Core: Selective Hydroxylation of Benzene to Phenol with Hydrogen Peroxide. Angewandte Chemie, 2017, 129, 7887-7890.	1.6	11
28	Hydrogen Atom Abstraction Thermodynamics of a Î¼-1,2-Superoxo Dicopper(II) Complex. Journal of the American Chemical Society, 2017, 139, 9831-9834.	6.6	46
29	Decoding the Mechanism of Intramolecular Cu-Directed Hydroxylation of sp³ Câ€“H Bonds. Journal of Organic Chemistry, 2017, 82, 7887-7904.	1.7	61
30	Single Electron Delivery to Lewis Pairs: An Avenue to Anions by Small Molecule Activation. Journal of the American Chemical Society, 2017, 139, 10062-10071.	6.6	60
31	Influence of Asymmetry on the Redox Properties of Phenoxo- and Hydroxo-Bridged Dicopper Complexes: Spectroelectrochemical and Theoretical Studies. Inorganic Chemistry, 2017, 56, 7707-7719.	1.9	16
32	Theoretical Study of the Oxidation of Methane to Methanol by the [CuIICuII(Î¼-O)2CuIII(7-N-Etppz)]1+ Complex. Inorganic Chemistry, 2018, 57, 3261-3271.	1.9	9
33	Ligand and electronic effects on copperâ€“arylnitroso self-assembly. New Journal of Chemistry, 2018, 42, 7758-7764.	1.4	8
34	Oâ€“O bond cleavage via electrochemical reduction of a side-on peroxo dicopper model of hemocyanin. Chemical Communications, 2018, 54, 4931-4934.	2.2	4
35	Reaction Systems for Bubbly Flows. European Journal of Inorganic Chemistry, 2018, 2018, 2101-2124.	1.0	17
36	Harnessing the Coordination Chemistry of 1,4,7â€Triazacyclononane for Biomimicry and Radiopharmaceutical Applications. ChemPlusChem, 2018, 83, 554-564.	1.3	23
37	Amphoteric reactivity of metalâ€“oxygen complexes in oxidation reactions. Coordination Chemistry Reviews, 2018, 365, 41-59.	9.5	85

#	Article	IF	Citations
38	Homogeneous Oxygenase Catalysis. Chemical Reviews, 2018, 118, 4912-4945.	23.0	119
39	Copper(I)â€“Dioxygen Reactivity in the Isolated Cavity of a Nanoscale Molecular Architecture. European Journal of Inorganic Chemistry, 2018, 2018, 1976-1983.	1.0	10
40	Experimental and theoretical investigations on magneto-structural correlation in trinuclear copper(II) hydroxido propellers. Polyhedron, 2018, 145, 22-34.	1.0	17
41	Oxygen Reduction by Homogeneous Molecular Catalysts and Electrocatalysts. Chemical Reviews, 2018, 118, 2340-2391.	23.0	483
42	Selective Oxidation of Thioanisole with Hydrogen Peroxide using Copper Complexes Encapsulated in Zeolite: Formation of a Thermally Stable and Reactive Copper Hydroperoxo Species. ACS Catalysis, 2018, 8, 2645-2650.	5.5	28
43	Performance of Density Functional Theory for Predicting Methane-to-Methanol Conversion by a Tri-Copper Complex. Journal of Physical Chemistry C, 2018, 122, 1024-1036.	1.5	23
44	Elusive Scorpionates: C₃-Symmetric, Formally Dianionic, Facially Tridentate Ligands. Inorganic Chemistry, 2018, 57, 553-556.	1.9	14
45	Oxygen Activation and Radical Transformations in Heme Proteins and Metalloporphyrins. Chemical Reviews, 2018, 118, 2491-2553.	23.0	686
46	Copperâ€Catalyzed Oxidative Reaction of Î²â€Keto Sulfones with Alcohols via Cå^'S Bond Cleavage: Reaction Development and Mechanism Study. Chemistry - an Asian Journal, 2018, 13, 404-408.	1.7	14
47	Thermal and photocatalytic oxidation of organic substrates by dioxygen with water as an electron source. Green Chemistry, 2018, 20, 948-963.	4.6	19
48	Copper active site in polysaccharide monooxygenases. Coordination Chemistry Reviews, 2018, 368, 134-157.	9.5	47
49	Tyrosinase Model Systems Supported by Pyrazolylmethylpyridine Ligands: Electronic and Steric Factors Influencing the Catalytic Activity and Impact of Complex Equilibria in Solution. European Journal of Inorganic Chemistry, 2018, 2018, 3058-3069.	1.0	25
50	Dinuclear copper(ii) complex with novel N,Nâ€™,Nâ€,O-tetradentate Schiff base ligand containing trifluoromethylpyrazole and hydrazone moieties. Mendeleev Communications, 2018, 28, 202-204.	0.6	17
51	Oxygen radical character in group 11 oxygen fluorides. Nature Communications, 2018, 9, 1267.	5.8	11
52	Reductive O₂ Binding at a Dihydride Complex Leading to Redox Interconvertible Î¼-1,2-Peroxo and Î¼-1,2-Superoxo Dinickel(II) Intermediates. Journal of the American Chemical Society, 2018, 140, 4929-4939.	6.6	40
53	Effect of Al-distribution on oxygen activation over Cuâ€“CHA. Catalysis Science and Technology, 2018, 8, 2131-2136.	2.1	47
54	Copper-Catalyzed Vinylogous Aerobic Oxidation of Unsaturated Compounds with Air. Journal of the American Chemical Society, 2018, 140, 5300-5310.	6.6	32
55	Histaminol and Its Complexes with Copper(II) - Studies in Solid State and Solution. European Journal of Inorganic Chemistry, 2018, 2018, 1399-1408.	1.0	13

#	Article	IF	Citations
56	What causes the different functionality in type-III-copper enzymes? A state of the art perspective. Inorganica Chimica Acta, 2018, 481, 25-31.	1.2	53
57	A cryostat for low temperature resonance Raman measurements on operando oxygenated bioinorganic model complexes. Inorganica Chimica Acta, 2018, 481, 176-180.	1.2	6
58	Copper (II)-mediated oxidative dehydrogenation of amine ligands. Inorganica Chimica Acta, 2018, 481, 189-196.	1.2	3
59	Synthesis, characterization, and reactivity of copper complexes supported by the TPMEN ligand framework. Inorganica Chimica Acta, 2018, 469, 447-452.	1.2	5
60	Intramolecular hydroxylation of a tetrabenzimidazole-based dicopper complex. Inorganica Chimica Acta, 2018, 481, 181-188.	1.2	2
61	Syntheses, characterization, and reactivity of copper complexes with camphor-like tetramethylguanidine ligands. Inorganica Chimica Acta, 2018, 481, 171-175.	1.2	9
62	Building biomimetic model compounds of dinuclear and trinuclear copper clusters for stereoselective oxidations. Inorganica Chimica Acta, 2018, 481, 47-55.	1.2	12
63	Preparation of a coordinatively saturated Î¼-Î·2:Î·2-peroxodicopper(II) compound. Inorganica Chimica Acta, 2018, 481, 166-170.	1.2	4
64	2-(2-Pyridyl)ethylamine (Pye) ligands in copper(I)-dioxygen chemistry. Inorganica Chimica Acta, 2018, 481, 38-46.	1.2	9
65	Immobilization of Molecular Catalysts for Enhanced Redox Catalysis. ChemCatChem, 2018, 10, 1686-1702.	1.8	35
66	Synergetic Catalysis of Copper and Iron in Oxidation of Reduced Keggin Heteropolytungstates by Dioxygen. Inorganic Chemistry, 2018, 57, 311-318.	1.9	10
67	Phenylamino derivatives of tris(2-pyridylmethyl)amine: hydrogen-bonded peroxodicopper complexes. Chemical Communications, 2018, 54, 892-895.	2.2	42
68	Copper(i) complexes based on ligand systems with two different binding sites: synthesis, structures and reaction with O2. Dalton Transactions, 2018, 47, 544-560.	1.6	9
69	Tyrosinase and catecholase-like activities of a dinuclear Cu(II) complex. Polyhedron, 2018, 141, 140-146.	1.0	10
70	Cu in biology: Unleashed by O2 and now irreplaceable. Inorganica Chimica Acta, 2018, 481, 4-24.	1.2	11
71	Mechanisms of Twoâ€Electron versus Fourâ€Electron Reduction of Dioxygen Catalyzed by Earthâ€Abundant Metal Complexes. ChemCatChem, 2018, 10, 9-28.	1.8	82
72	Extending the family of quinolone antibacterials to new copper derivatives: self-assembly, structural and topological features, catalytic and biological activity. New Journal of Chemistry, 2018, 42, 19644-19658.	1.4	7
73	Investigation of dioxygen activation by copper(<scp>ii</scp>)â€“iminate/aminate complexes. Dalton Transactions, 2018, 47, 16242-16254.	1.6	8

#	Article	IF	Citations
74	Photoexcited state chemistry of metalâ€“oxygen complexes. Dalton Transactions, 2018, 47, 16019-16026.	1.6	8
75	Computational strategies to probe CH activation in dioxo-dicopper complexes. Physical Chemistry Chemical Physics, 2018, 20, 25602-25614.	1.3	9
76	Experimentally Calibrated Analysis of the Electronic Structure of CuO⁺: Implications for Reactivity. Angewandte Chemie - International Edition, 2018, 57, 17053-17057.	7.2	32
77	Fluorescent Bis(guanidine) Copper Complexes as Precursors for Hydroxylation Catalysis. Inorganics, 2018, 6, 114.	1.2	8
78	Bioinspired Metalâ€“Organic Framework Catalysts for Selective Methane Oxidation to Methanol. Journal of the American Chemical Society, 2018, 140, 18208-18216.	6.6	301
79	Experimentally Calibrated Analysis of the Electronic Structure of CuO + : Implications for Reactivity. Angewandte Chemie, 2018, 130, 17299-17303.	1.6	8
80	Evidence of Oâ€“O Bond Formation in the Final Metastable S₃ State of Natureâ€™s Water Oxidizing Complex Implying a Novel Mechanism of Water Oxidation. Journal of Physical Chemistry Letters, 2018, 9, 6269-6274.	2.1	40
81	Click. Coordinate. Catalyze. Using CuAAC Click Ligands in Smallâ€Molecule Model Chemistry of Tyrosinase. ChemCatChem, 2018, 10, 5402-5405.	1.8	18
82	Mechanism of the Visible-Light-Mediated Copper-Catalyzed Coupling Reaction of Phenols and Alkynes. Journal of the American Chemical Society, 2018, 140, 15099-15113.	6.6	50
83	Synthetic Fe/Cu Complexes: Toward Understanding Heme-Copper Oxidase Structure and Function. Chemical Reviews, 2018, 118, 10840-11022.	23.0	166
84	Tuning the O₂ Binding Affinity of Cobalt(II) Centers by Changing the Structural and Electronic Properties of the Distal Substituents on Azole-Based Chelating Ligands. Inorganic Chemistry, 2018, 57, 14218-14229.	1.9	11
85	Effect of Monoelectronic Oxidation of an Unsymmetrical Phenoxido-Hydroxido Bridged Dicopper(II) Complex. Inorganic Chemistry, 2018, 57, 12364-12375.	1.9	12
86	Copper(II) Complexes with Bulky N-Substituted Diethanolamines: High-Field Electron Paramagnetic Resonance, Magnetic, and Catalytic Studies in Oxidative Cyclohexane Amidation. Inorganic Chemistry, 2018, 57, 12384-12397.	1.9	13
87	Chalcogen Impact on Covalency within Molecular [Cu₃(Î¼₃-E)]³⁺ Clusters (E = O, S, Se): A Synthetic, Spectroscopic, and Computational Study. Inorganic Chemistry, 2018, 57, 11382-11392.	1.9	9
88	A Tricopper(I) Complex Competent for O Atom Transfer, Câ€“H Bond Activation, and Multiple O₂ Activation Steps. Inorganic Chemistry, 2018, 57, 11361-11368.	1.9	14
89	Remarkable Acid Catalysis in Proton-Coupled Electron-Transfer Reactions of a Chromium(III)-Superoxo Complex. Journal of the American Chemical Society, 2018, 140, 8372-8375.	6.6	27
90	Mechanism of NOâ€“CO reaction over highly dispersed cuprous oxide on Î³-alumina catalyst using a metalâ€“support interfacial site in the presence of oxygen: similarities to and differences from biological systems. Catalysis Science and Technology, 2018, 8, 3833-3845.	2.1	16
91	Tetranuclear and dinuclear phenoxido bridged copper complexes based on unsymmetrical thiosemicarbazone ligands. Dalton Transactions, 2018, 47, 9665-9676.	1.6	10

#	Article	IF	Citations
92	Intramolecular Hydrogen Bonding Enhances Stability and Reactivity of Mononuclear Cupric Superoxide Complexes. Journal of the American Chemical Society, 2018, 140, 9042-9045.	6.6	70
93	Trinuclear copper complexes as biological mimics: Ligand designs and reactivities. Coordination Chemistry Reviews, 2018, 374, 345-375.	9.5	45
94	Heterometallic Cu^{II}/Ln^{III} polymers active in the catalytic aerobic oxidation of cycloalkenes under solvent-free conditions. Dalton Transactions, 2018, 47, 13360-13367.	1.6	6
95	Effects of Charged Ligand Substituents on the Properties of the Formally Copper(III)-Hydroxide ([CuOH]²⁺) Unit. Inorganic Chemistry, 2018, 57, 9794-9806.	1.9	30
96	Density Functional Modeling of Ligand Effects on Electronic Structure and Câ€“H Bond Activation Activity of Copper(III) Hydroxide Compounds. Inorganic Chemistry, 2018, 57, 9807-9813.	1.9	8
97	Structural and bonding properties of Cu₃O₃^{â^'} and Cu₃O₄^{â^'} clusters: anion photoelectron spectroscopy and density functional calculations. Physical Chemistry Chemical Physics, 2018, 20, 20622-20628.	1.3	6
98	Structure and Reactivity of Copper Complexes Supported by a Bulky Tripodal N 4 Ligand: Copper(I)/Dioxygen Reactivity and Formation of a Hydroperoxide Copper(II) Complex. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 780-789.	0.6	5
99	Hydrogen Bonds Dictate O₂ Capture and Release within a Zinc Tripod. Journal of the American Chemical Society, 2018, 140, 10075-10079.	6.6	35
100	High-Oxidation-State 3d Metal (Tiâ€“Cu) Complexes with N-Heterocyclic Carbene Ligation. Chemical Reviews, 2018, 118, 9930-9987.	23.0	136
101	Aerobic Oxidation of Alcohols Catalysed by Cu(I)/NMI/TEMPO System and Its Mechanistic Insights. Catalysis Letters, 2018, 148, 2709-2718.	1.4	26
102	Copper-Catalyzed Aerobic Oxidative [3+2] Annulation for the Synthesis of 5-Amino/Imino-Substituted 1,2,4-Thiadiazoles through Câ€“N/Nâ€“S Bond Formation. Journal of Organic Chemistry, 2018, 83, 9334-9343.	1.7	15
103	Aerobic Aliphatic Hydroxylation Reactions by Copper Complexes: A Simple Clipâ€andâ€Cleave Concept. Chemistry - A European Journal, 2018, 24, 15543-15549.	1.7	16
104	Ground-State Copper(III) Stabilized by N-Confused/N-Linked Corroles: Synthesis, Characterization, and Redox Reactivity. Journal of the American Chemical Society, 2018, 140, 6883-6892.	6.6	45
105	Engineering of Transition Metal Catalysts Confined in Zeolites. Chemistry of Materials, 2018, 30, 3177-3198.	3.2	232
106	CuCl/TMEDA/nor-AZADO-catalyzed aerobic oxidative acylation of amides with alcohols to produce imides. Chemical Science, 2018, 9, 4756-4768.	3.7	34
107	Spin crossover dynamics studies on the thermally activated molecular oxygen binding mechanism on a model copper complex. Physical Chemistry Chemical Physics, 2018, 20, 15852-15862.	1.3	2
108	Selective Câ^'O Coupling Hidden in the Thermal Reaction of [Al₂CuO₅]⁺ with Methane. Chemistry - A European Journal, 2018, 24, 14649-14653.	1.7	8
109	Copper-Catalyzed Oxidative Cleavage of Electron-Rich Olefins in Water at Room Temperature. Organic Letters, 2018, 20, 5094-5097.	2.4	34

#	Article	IF	Citations
110	Phagosomal Copper-Promoted Oxidative Attack on Intracellular Mycobacterium tuberculosis. ACS Infectious Diseases, 2018, 4, 1623-1634.	1.8	27
111	Viewpoint on the Partial Oxidation of Methane to Methanol Using Cu- and Fe-Exchanged Zeolites. ACS Catalysis, 2018, 8, 8306-8313.	5.5	133
112	Bracing copper for the catalytic oxidation of Câ€“H bonds. Nature Catalysis, 2018, 1, 571-577.	16.1	131
113	Cu-Catalyzed Radical Cascade Annulations of Alkyne-Tethered N-Alkoxyamides with Air: Facile Access to Isoxazolidine/1,2-Oxazinane-Fused Isoquinolin-1(2H)-ones. ACS Catalysis, 2018, 8, 8925-8931.	5.5	44
114	Enhanced Electron-Transfer Reactivity of a Long-Lived Photoexcited State of a Cobaltâ€“Oxygen Complex. Inorganic Chemistry, 2018, 57, 10945-10952.	1.9	14
115	Tyrosinase Models: Synthesis, Spectroscopy, Theory and Catalysis. , 2019, , .		6
116	Behavior of a Cu-Peptide complex under water oxidation conditions â€“ Molecular electrocatalyst or precursor to nanostructured CuO films?. Solar Energy Materials and Solar Cells, 2019, 201, 110079.	3.0	8
117	Controlled chemoselective defluorination and non-defluorination for [5 + 1] aromatic annulation via Meisenheimer-type nitrogen anion and radical intermediates. Chemical Science, 2019, 10, 8812-8816.	3.7	5
118	Ruthenium-Chelated Non-Innocent Bis(heterocyclo)methanides: A Mimicked Î²-Diketiminate. Inorganic Chemistry, 2019, 58, 11458-11469.	1.9	30
119	Innerâ€Sphere Oxygen Activation Promoting Outerâ€Sphere Nucleophilic Attack on Olefins. Chemistry - A European Journal, 2019, 25, 14546-14554.	1.7	7
120	Synthesis, crystal structures and reactivity towards dioxygen of copper(I) complexes with tripodal aliphatic amine ligands. Polyhedron, 2019, 171, 448-454.	1.0	4
121	Nucleophilic reactivity of a copper(II)-hydroperoxo complex. Communications Chemistry, 2019, 2, .	2.0	26
122	Metalâ€“Oxyl Species and Their Possible Roles in Chemical Oxidations. Inorganic Chemistry, 2019, 58, 9517-9542.	1.9	73
123	Copper/TEMPO Redox Redux: Analysis of PCET Oxidation of TEMPOH by Copper(II) and the Reaction of TEMPO with Copper(I). Inorganic Chemistry, 2019, 58, 10194-10200.	1.9	30
124	Recent Progress in Direct Conversion of Methane to Methanol Over Copper-Exchanged Zeolites. Frontiers in Chemistry, 2019, 7, 514.	1.8	67
125	Theoretical and Experimental Reactivity Predictors for the Electrocatalytic Activity of Copper Phenanthroline Derivatives for the Reduction of Dioxygen. Journal of Physical Chemistry C, 2019, 123, 19468-19478.	1.5	18
126	Fast Oxygen Reduction Catalyzed by a Copper(II) Tris(2â€pyridylmethyl)amine Complex through a Stepwise Mechanism. Angewandte Chemie - International Edition, 2019, 58, 12974-12978.	7.2	74
127	Fast Oxygen Reduction Catalyzed by a Copper(II) Tris(2â€pyridylmethyl)amine Complex through a Stepwise Mechanism. Angewandte Chemie, 2019, 131, 13108-13112.	1.6	9

#	Article	IF	Citations
128	A Comparative Study of the Catalytic Behaviour of Alkoxy-1,3,5-Triazapentadiene Copper(II) Complexes in Cyclohexane Oxidation. Inorganics, 2019, 7, 82.	1.2	8
129	Mechanisms for Hydrogen-Atom Abstraction by Mononuclear Copper(III) Cores: Hydrogen-Atom Transfer or Concerted Proton-Coupled Electron Transfer?. Journal of the American Chemical Society, 2019, 141, 17236-17244.	6.6	55
130	Impact of Intramolecular Hydrogen Bonding on the Reactivity of Cupric Superoxide Complexes with Oâˆ'H and Câˆ'H Substrates. Angewandte Chemie, 2019, 131, 17736-17740.	1.6	2
131	Formation of the Cu^{II}â€"Phenoxyl Radical by Reaction of O₂ with a Cu^{II}â€"Phenolate Complex via the Cu^Iâ€"Phenoxyl Radical. Chemistry - A European Journal, 2019, 25, 15805-15814.	1.7	11
132	Practical Catalytic Cleavage of C(sp 3)â˜'C(sp 3) Bonds in Amines. Angewandte Chemie, 2019, 131, 10803-10807.	1.6	7
133	New class of tridentate 3N ligands and copper(II) complexes: A model for type-2 copper site of phenoxazinone synthase. Inorganic Chemistry Communication, 2019, 110, 107608.	1.8	11
134	Catalytic M Center of Copper Monooxygenases Probed by Rational Design. Effects of Selenomethionine and Histidine Substitution on Structure and Reactivity. Biochemistry, 2019, 58, 4436-4446.	1.2	6
135	The Myth of d⁸ Copper(III). Journal of the American Chemical Society, 2019, 141, 18508-18520.	6.6	139
136	Total Synthesis of (S,S)-Tetramethylmagnolamine via Aerobic Desymmetrization. Organic Letters, 2019, 21, 9194-9197.	2.4	12
137	Carboxylate Structural Effects on the Properties and Proton-Coupled Electron Transfer Reactivity of [CuO₂CR]²⁺ Cores. Inorganic Chemistry, 2019, 58, 15872-15879.	1.9	16
138	Sodaliteâ€type Cuâ€based Threeâ€dimensional Metalâ€"Organic Framework for Efficient Oxygen Reduction Reaction. Chemistry - an Asian Journal, 2019, 14, 4814-4818.	1.7	6
139	Impact of Intramolecular Hydrogen Bonding on the Reactivity of Cupric Superoxide Complexes with Oâˆ'H and Câˆ'H Substrates. Angewandte Chemie - International Edition, 2019, 58, 17572-17576.	7.2	28
140	Dimethylanilinic N-Oxides and Their Oxygen Surrogacy Role in the Formation of a Putative High-Valent Copperâ€"Oxygen Species. Inorganic Chemistry, 2019, 58, 13746-13750.	1.9	9
141	Role of Amino Acid Residues for Dioxygen Activation in the Second Coordination Sphere of the Dicopper Site of pMMO. Inorganic Chemistry, 2019, 58, 12280-12288.	1.9	8
142	Hydrogen Bond-Enabled Heterolytic and Homolytic Peroxide Activation within Nonheme Copper(II)-Alkylperoxo Complexes. Inorganic Chemistry, 2019, 58, 12964-12974.	1.9	22
143	Low Reorganization Energy for Electron Self-Exchange by a Formally Copper(III,II) Redox Couple. Inorganic Chemistry, 2019, 58, 14151-14158.	1.9	18
144	Mononuclear copper(II) complexes containing a macrocyclic ditopic ligand: Synthesis, structures and properties. Inorganica Chimica Acta, 2019, 497, 119081.	1.2	9
145	Thioether sulfur-bound [Cu₂] complexes showing catechol oxidase activity and DNA cleaving behaviour. Dalton Transactions, 2019, 48, 1292-1313.	1.6	12

#	Article	IF	Citations
146	Stabilisation of copper(<scp>i</scp>) polypyridyl complexes toward aerobic oxidation by zinc(<scp>ii</scp>) in combination with acetate anions: a facile approach and its application in ascorbic acid sensing in aqueous solution. Dalton Transactions, 2019, 48, 997-1005.	1.6	5
147	Copper-Promoted Functionalization of Organic Molecules: from Biologically Relevant Cu/O₂ Model Systems to Organometallic Transformations. Chemical Reviews, 2019, 119, 2954-3031.	23.0	201
148	Cupric-superoxide complex that induces a catalytic aldol reaction-type Câ€“C bond formation. Communications Chemistry, 2019, 2, .	2.0	19
149	Copper Containing Molecular Systems in Electrocatalytic Water Oxidationâ€”Trends and Perspectives. Catalysts, 2019, 9, 83.	1.6	22
150	Oâ€“H and (CO)Nâ€“H bond weakening by coordination to Fe(<scp>ii</scp>). Dalton Transactions, 2019, 48, 2179-2189.	1.6	10
151	Evaluating chemical bonding in dioxides for the development of metalâ€“oxygen batteries: vibrational spectroscopic trends of dioxygenyls, dioxygen, superoxides and peroxides. Physical Chemistry Chemical Physics, 2019, 21, 1552-1563.	1.3	22
152	Practical Catalytic Cleavage of C(sp³)â^'C(sp³) Bonds in Amines. Angewandte Chemie - International Edition, 2019, 58, 10693-10697.	7.2	31
153	On the Metal Cooperativity in a Dinuclear Copperâ€“Guanidine Complex for Aliphatic Câ^'H Bond Cleavage by Dioxygen. Chemistry - A European Journal, 2019, 25, 11257-11268.	1.7	4
154	Characterization and Reactivity of a Tetrahedral Copper(II) Alkylperoxido Complex. Chemistry - A European Journal, 2019, 25, 11157-11165.	1.7	11
155	A radical capture mechanism for immediate Csp²â€“H bond hydroxylation via a heterogeneous Cuâ€“graphene catalyst. Chemical Communications, 2019, 55, 8915-8918.	2.2	7
156	Structure of formylglycine-generating enzyme in complex with copper and a substrate reveals an acidic pocket for binding and activation of molecular oxygen. Chemical Science, 2019, 10, 7049-7058.	3.7	16
157	Aromatic hydroxylation of anthracene derivatives by a chromium(<scp>iii</scp>)-superoxo complex via proton-coupled electron transfer. Chemical Communications, 2019, 55, 8286-8289.	2.2	1
158	Secondary-Sphere Effects in Molecular Electrocatalytic CO2 Reduction. Frontiers in Chemistry, 2019, 7, 397.	1.8	114
159	Rational Design of a Histidineâ€“Methionine Site Modeling the M-Center of Copper Monooxygenases in a Small Metallochaperone Scaffold. Biochemistry, 2019, 58, 3097-3108.	1.2	8
160	Cost Efficient Synthesis of Diaryl Ethers Catalysed by CuI, Imidazolium Chloride and Cs 2 CO 3. ChemistrySelect, 2019, 4, 7181-7186.	0.7	8
161	Spectroscopic Determination of the Site in MFI Zeolite where Cobalt(I) Performs Two-Electron Reduction of O₂ at Room Temperature. Journal of Physical Chemistry C, 2019, 123, 17842-17854.	1.5	10
162	Inorganic Chemistry Approaches to Activity-Based Sensing: From Metal Sensors to Bioorthogonal Metal Chemistry. Inorganic Chemistry, 2019, 58, 13546-13560.	1.9	46
163	Exclusive imidazole ligation to CuII2O2 and CuIICuI2O2 cores. Chemical Communications, 2019, 55, 7390-7393.	2.2	3

#	Article	IF	Citations
164	Tunable intramolecular multicenter H-bonding interactions in first-row metal complexes bearing bidentate redox-active ligands. Journal of Coordination Chemistry, 2019, 72, 1346-1357.	0.8	3
165	Restricting Effect of Solvent Aggregates on Distribution and Mobility of CuCl₂ in Homogenous Catalysis. ACS Catalysis, 2019, 9, 6588-6595.	5.5	19
166	Design and Optimization of Catalysts Based on Mechanistic Insights Derived from Quantum Chemical Reaction Modeling. Chemical Reviews, 2019, 119, 6509-6560.	23.0	130
167	Directed Hydroxylation of sp² and sp³ Câ€“H Bonds Using Stoichiometric Amounts of Cu and H₂O₂. Inorganic Chemistry, 2019, 58, 7584-7592.	1.9	24
168	Bioinspired molecular catalysts for homogenous electrochemical activation of dioxygen. Current Opinion in Electrochemistry, 2019, 15, 118-124.	2.5	12
169	A comparative test of different density functionals for calculations of NH₃-SCR over Cu-Chabazite. Physical Chemistry Chemical Physics, 2019, 21, 10923-10930.	1.3	40
170	Valenceâ€toâ€Core Xâ€ray Emission Spectroscopy as a Probe of Oâ€“O Bond Activation in Cu₂O₂ Complexes. Angewandte Chemie - International Edition, 2019, 58, 9114-9119.	7.2	26
171	Trispyrazolylborate coinage metals complexes: Structural features and catalytic transformations. Coordination Chemistry Reviews, 2019, 390, 171-189.	9.5	40
172	Reactivity of bio-inspired Cu(II) (N2/Py2) complexes with peroxide at room temperature. Journal of Inorganic Biochemistry, 2019, 197, 110674.	1.5	4
173	Structure and reactivity of the first-row d-block metal-superoxo complexes. Dalton Transactions, 2019, 48, 9469-9489.	1.6	50
174	Dual oxidase/oxygenase reactivity and resonance Raman spectra of {Cu3O2} moiety with perfluoro-t-butoxide ligands. Dalton Transactions, 2019, 48, 6899-6909.	1.6	8
175	An Inâ€Depth Look at the Reactivity of Nonâ€Redoxâ€Metal Alkylperoxides. Angewandte Chemie, 2019, 131, 8614-8618.	1.6	5
176	Revisiting the Synthesis and Nucleophilic Reactivity of an Anionic Copper Superoxide Complex. Inorganic Chemistry, 2019, 58, 4706-4711.	1.9	25
177	Mechanistic Dichotomy in Proton-Coupled Electron-Transfer Reactions of Phenols with a Copper Superoxide Complex. Journal of the American Chemical Society, 2019, 141, 5470-5480.	6.6	55
178	Carboxamidate Ligand Noninnocence in Proton Coupled Electron Transfer. Inorganic Chemistry, 2019, 58, 4515-4523.	1.9	11
179	Cu(i)â€“O2 oxidation reactions in a fluorinated all-O-donor ligand environment. Dalton Transactions, 2019, 48, 4759-4768.	1.6	11
180	Aerobic oxygenation catalyzed by first row transition metal complexes coordinated by tetradentate mono-carbon bridged bis-phenanthroline ligands: intra- versus intermolecular carbonâ€“hydrogen bond activation. Dalton Transactions, 2019, 48, 6396-6407.	1.6	3
181	An Inâ€Depth Look at the Reactivity of Nonâ€Redoxâ€Metal Alkylperoxides. Angewandte Chemie - International Edition, 2019, 58, 8526-8530.	7.2	19

#	Article	IF	Citations
182	Synthesis, structure and properties of new heterometallic octanuclear Li2Na2Cu4 and decanuclear Li2Zn8 complexes. Polyhedron, 2019, 172, 58-66.	1.0	11
183	Employing Linear Tridentate Ligands with Pyrazole End Groups in Catalytic Tyrosinase Model Chemistry: Does Hemilability Matter?. European Journal of Inorganic Chemistry, 2019, 2019, 2258-2266.	1.0	13
184	Simultaneous Formation of cis- and trans-CH₃OCu(OH) Intermediates in Methane Activation by Cu in Solid Ar. Inorganic Chemistry, 2019, 58, 3237-3246.	1.9	1
185	Decomposition of Copper Formate Clusters: Insight into Elementary Steps of Calcination and Carbon Dioxide Activation. ChemistryOpen, 2019, 8, 1453-1459.	0.9	11
186	Valenceâ€toâ€Core Xâ€ray Emission Spectroscopy as a Probe of Oâ‹¯O Bond Activation in Cu₂O₂ Complexes. Angewandte Chemie, 2019, 131, 9212-9217.	1.6	3
187	Theoretical study of aromatic hydroxylation of the [Cu2(H-XYL)O2]2+ complex mediated by a side-on peroxo dicopper core and Cu-ligand effects. Dalton Transactions, 2019, 48, 16882-16893.	1.6	1
188	Facile access to evodiakine enabled by aerobic copper-catalyzed oxidative rearrangement. Organic and Biomolecular Chemistry, 2019, 17, 8811-8815.	1.5	3
189	Theory Demonstrated a â€œCoupledâ€•Mechanism for O₂ Activation and Substrate Hydroxylation by Binuclear Copper Monooxygenases. Journal of the American Chemical Society, 2019, 141, 19776-19789.	6.6	36
190	Highly Reactive CoIII,IV2(Î¼-O)2 Diamond Core Complex That Cleaves Câ€“H Bonds. Journal of the American Chemical Society, 2019, 141, 20127-20136.	6.6	15
191	High-Valent d⁷ Ni^{III} versus d⁸ Cu^{III} Oxidants in PCET. Inorganic Chemistry, 2019, 58, 16838-16848.	1.9	22
192	Activating a Peroxo Ligand for Câ‹¯O Bond Formation. Angewandte Chemie - International Edition, 2019, 58, 3037-3041.	7.2	9
193	Activating a Peroxo Ligand for Câ‹¯O Bond Formation. Angewandte Chemie, 2019, 131, 3069-3073.	1.6	2
194	Synthesis, characterization and reactivity of non-heme 1st row transition metal-superoxo intermediates. Coordination Chemistry Reviews, 2019, 382, 126-144.	9.5	48
195	Selective oxidation of exogenous substrates by a bis-Cu(III) bis-oxide complex: Mechanism and scope. Inorganica Chimica Acta, 2019, 486, 782-792.	1.2	9
196	Synthesis of Various Water Soluble and Stable Copper Complexes Bearing Nâ€Heterocyclic Carbene Ligands and Their Activity in DNA Alkylation. Helvetica Chimica Acta, 2019, 102, e1800183.	1.0	3
197	A dinucleating ligand system with varying terminal donor functions but without bridging donor functions: Design, synthesis, and applications for diiron complexes. Coordination Chemistry Reviews, 2019, 380, 353-377.	9.5	19
198	Unprecedented direct cupric-superoxo conversion to a bis-Î¼-oxo dicopper(III) complex and resulting oxidative activity. Inorganica Chimica Acta, 2019, 485, 155-161.	1.2	4
199	Switchable Bifunctional Bistate Reusable ZnOâ€“Cu for Selective Oxidation and Reduction Reaction. ACS Catalysis, 2019, 9, 732-745.	5.5	17

#	Article	IF	Citations
200	Copper complexes of multidentate carboxamide ligands. Inorganica Chimica Acta, 2019, 485, 131-139.	1.2	7
201	Influence of induced steric on the switchover reactivity of mononuclear Cu(II)-alkylperoxo complexes. Inorganica Chimica Acta, 2019, 485, 80-85.	1.2	7
202	Alkane and alkene oxidation reactions catalyzed by nickel(II) complexes: Effect of ligand factors. Coordination Chemistry Reviews, 2020, 403, 213085.	9.5	44
203	Copper-Catalyzed Aerobic Oxidative Alkynylation of 3,4-Dihydroquinoxalin-2-ones. Synthesis, 2020, 52, 544-552.	1.2	11
204	Detection and Characterization of a Novel Copperâ€Dependent Intermediate in a Lytic Polysaccharide Monooxygenase. Chemistry - A European Journal, 2020, 26, 454-463.	1.7	36
205	Isomerism and dynamic behavior of bridging phosphaalkynes bound to a dicopper complex. Chemical Science, 2020, 11, 1607-1616.	3.7	11
206	Theoretical and experimental characterization of Cu-doped amorphous silicate glass. Journal of Molecular Structure, 2020, 1205, 127629.	1.8	4
207	Synthesis and electronic structure of a mononuclear copper(II) complex supported by tris(2-hydroxyliminopropyl)amine. Polyhedron, 2020, 177, 114306.	1.0	3
208	Metalâ€Metal Cooperation in Dinucleating Complexes Involving Late Transition Metals Directed towards Organic Catalysis. Chinese Journal of Chemistry, 2020, 38, 185-201.	2.6	46
209	Tuning Electron-Transfer Reactivity of a Chromium(III)â€“Superoxo Complex Enabled by Calcium Ion and Other Redox-Inactive Metal Ions. Journal of the American Chemical Society, 2020, 142, 365-372.	6.6	21
210	An Adaptable Nâ€Heterocyclic Carbene Macrocycle Hosting Copper in Three Oxidation States. Angewandte Chemie, 2020, 132, 5745-5754.	1.6	5
211	Oneâ€Pot Conversion of Cyclohexane to Adipic Acid Using a Âµ₄â€Oxidoâ€Copper Cluster as Catalyst Together with Hydrogen Peroxide. European Journal of Inorganic Chemistry, 2020, 2020, 248-252.	1.0	15
212	An Adaptable Nâ€Heterocyclic Carbene Macrocycle Hosting Copper in Three Oxidation States. Angewandte Chemie - International Edition, 2020, 59, 5696-5705.	7.2	27
213	Photoinduced Generation of Superoxidants for the Oxidation of Substrates with High Câ€“H Bond Dissociation Energies. ChemPhotoChem, 2020, 4, 271-281.	1.5	3
214	Catalytic H₂O₂ Activation by a Diiron Complex for Methanol Oxidation. Inorganic Chemistry, 2020, 59, 15563-15569.	1.9	10
215	Spectroscopic Evidence of Efficient Generation of Dicopper Intermediate in Selective Catalytic Reduction of NO over Cu-Ion-Exchanged Zeolites. ACS Catalysis, 2020, 10, 12333-12339.	5.5	52
216	Dioxygen Activation by Internally Aromatic Metallacycle: Crystallographic Structure and Mechanistic Investigations. IScience, 2020, 23, 101379.	1.9	6
217	Ambiphilicity of a mononuclear cobalt(<scp>iii</scp>) superoxo complex. Chemical Communications, 2020, 56, 14821-14824.	2.2	4

#	Article	IF	Citations
218	Concerted Protonâ€“Electron Transfer Reactivity at a Multimetallic Co4O4 Cubane Cluster. Inorganic Chemistry, 2020, 59, 15553-15560.	1.9	14
219	Copper Enzymes Involved in Multi-Electron Processes. , 2020, , 524-524.		0
220	Catalytic Reduction of Oxygen by a Copper Thiosemicarbazone Complex. European Journal of Inorganic Chemistry, 2020, 2020, 4549-4555.	1.0	7
221	Reactivity descriptors for Cu bis-phenanthroline catalysts for the hydrogen peroxide reduction reaction. Electrochimica Acta, 2020, 357, 136881.	2.6	9
222	Influence of Ligand Denticity and Flexibility on the Molecular Copper Mediated Oxygen Reduction Reaction. Inorganic Chemistry, 2020, 59, 16398-16409.	1.9	38
223	Five Nitrogen Oxidation States from Nitro to Amine: Stabilization and Reactivity of a Metastable Arylhydroxylamine Complex. Journal of the American Chemical Society, 2020, 142, 19023-19028.	6.6	7
224	Aerobic intramolecular carbonâ€“hydrogen bond oxidation promoted by Cu(<scp>i</scp>) complexes. Dalton Transactions, 2020, 49, 14647-14655.	1.6	9
225	Generation and Reactivity of a Ni^{III}₂(Î¼-1,2-peroxo) Complex. Journal of the American Chemical Society, 2020, 142, 21634-21639.	6.6	19
226	Experimental Description of Biomimetic Niiiâ€“Superoxo Î´-Bond: Franckâ€“Condon Analyses on Its Vibronically-Resolved Spectrum. Journal of Physical Chemistry C, 2020, 124, 11544-11557.	1.5	6
227	Structure and Unprecedented Reactivity of a Mononuclear Nonheme Cobalt(III) Iodosylbenzene Complex. Angewandte Chemie, 2020, 132, 13683-13687.	1.6	2
228	A Manganese(IV)-Hydroperoxo Intermediate Generated by Protonation of the Corresponding Manganese(III)-Superoxo Complex. Journal of the American Chemical Society, 2020, 142, 10255-10260.	6.6	22
229	Effects of dioxygen pressure on rates of NOx selective catalytic reduction with NH3 on Cu-CHA zeolites. Journal of Catalysis, 2020, 389, 140-149.	3.1	44
230	Structure, Spectroscopy, and Reactivity of a Mononuclear Copper Hydroxide Complex in Three Molecular Oxidation States. Journal of the American Chemical Society, 2020, 142, 12265-12276.	6.6	25
231	Oxygen Transfer from Trimethylamine Nâ€Oxide to Cu^I Complexes Supported by Pentanitrogen Ligands. European Journal of Inorganic Chemistry, 2020, 2020, 2798-2808.	1.0	4
232	Electrocatalytic Oxygen Reduction at Multinuclear Metal Active Sites Inspired by Metalloenzymes. E-Journal of Surface Science and Nanotechnology, 2020, 18, 81-93.	0.1	10
233	Linear free energy relationships for transition metal chemistry: case study of CH activation with copperâ€“oxygen complexes. Physical Chemistry Chemical Physics, 2020, 22, 7155-7159.	1.3	7
234	Phenoxazinone synthase-like catalytic activity of novel mono- and tetranuclear copper(<scp>ii</scp>) complexes with 2-benzylaminoethanol. Dalton Transactions, 2020, 49, 4710-4724.	1.6	22
235	Aerobic oxidation of 2-aminophenol catalysed by a series of mononuclear copper(<scp>ii</scp>) complexes: phenoxazinone synthase-like activity and mechanistic study. New Journal of Chemistry, 2020, 44, 12793-12805.	1.4	25

#	Article	IF	Citations
236	Iron and manganese oxo complexes, oxo wall and beyond. Nature Reviews Chemistry, 2020, 4, 404-419.	13.8	167
237	Advances in the Molecular Catalysis of Dioxygen Reduction. ACS Catalysis, 2020, 10, 2640-2655.	5.5	76
238	Exceptional Substrate Diversity in Oxygenation Reactions Catalyzed by a Bis(Î¼â€oxo) Copper Complex. Chemistry - A European Journal, 2020, 26, 7556-7562.	1.7	20
239	Oneâ€Pot Conversion of Cyclohexane to Adipic Acid Using a Âµ₄â€Oxidoâ€Copper Cluster as Catalyst Together with Hydrogen Peroxide. European Journal of Inorganic Chemistry, 2020, 2020, 227-227.	1.0	0
240	Tuning Inner-Sphere Electron Transfer in a Series of Copper/Nitrosoarene Adducts. Inorganic Chemistry, 2020, 59, 8678-8689.	1.9	6
241	Binuclear O₂ activation and hydrogen transfer mechanism for aerobic oxidation of alcohols. Catalysis Science and Technology, 2020, 10, 2183-2192.	2.1	0
242	Mechanistic approaches for chemically modifying the coordination sphere of copperâ€“amyloid-Î² complexes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5160-5167.	3.3	24
243	Methane Activation on H-ZSM-5 Zeolite with Low Copper Loading. The Nature of Active Sites and Intermediates Identified with the Combination of Spectroscopic Methods. Inorganic Chemistry, 2020, 59, 2037-2050.	1.9	25
244	Bioinspired chemistry at MOF secondary building units. Chemical Science, 2020, 11, 1728-1737.	3.7	63
245	O2 and H2O2 activations at dinuclear Mn and Fe active sites. Coordination Chemistry Reviews, 2020, 408, 213176.	9.5	42
246	Fast Hydrocarbon Oxidation by a Highâ€Valent Nickelâ€“Fluoride Complex. Angewandte Chemie - International Edition, 2020, 59, 13044-13050.	7.2	26
247	Fast Hydrocarbon Oxidation by a Highâ€Valent Nickelâ€“Fluoride Complex. Angewandte Chemie, 2020, 132, 13144-13150.	1.6	4
248	Structure and Unprecedented Reactivity of a Mononuclear Nonheme Cobalt(III) Iodosylbenzene Complex. Angewandte Chemie - International Edition, 2020, 59, 13581-13585.	7.2	19
249	Glycosidic Bond Oxidation: The Structure, Function, and Mechanism of Polysaccharide Monooxygenases. , 2020, , 298-331.		9
250	Theoretical rationalization for the equilibrium between (Î¼â€“Î·²:Î·²-peroxido)Cu^{II}Cu^{II} and bis(Î¼-oxido)Cu^{III}Cu^{III} complexes: perturbational effects from ligand frameworks. Dalton Transactions, 2020, 49, 6710-6717.	1.6	3
251	Dicopper(II) Complexes of p-Cresol-2,6-Bis(dpa) Amide-Tether Ligands: Large Enhancement of Oxidative DNA Cleavage, Cytotoxicity, and Mechanistic Insight by Intracellular Visualization. Inorganic Chemistry, 2021, 60, 5474-5482.	1.9	7
252	Nonâ€Coordinative Binding of O 2 at the Active Center of a Copperâ€Dependent Enzyme. Angewandte Chemie - International Edition, 2021, 60, 6154-6159.	7.2	7
253	Synthesis and characterization of copper complexes with tripodal ligands bearing amino acid groups. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 951-959.	0.6	1

#	Article	IF	Citations
254	Ni(II) complexes of tripodal N4 ligands as catalysts for alkane hydroxylation and O-arylation of phenol: Structural and reactivity effects induced by fluoro substitution. Inorganica Chimica Acta, 2021, 517, 120191.	1.2	2
255	Nonâ€Coordinative Binding of O 2 at the Active Center of a Copperâ€Dependent Enzyme. Angewandte Chemie, 2021, 133, 6219-6224.	1.6	2
256	Intermediates involved in serotonin oxidation catalyzed by Cu bound AÎ² peptides. Chemical Science, 2021, 12, 1924-1929.	3.7	11
257	Molecular oxofluorides OMFn of nickel, palladium and platinum: oxyl radicals with moderate ligand field inversion. Inorganic Chemistry Frontiers, 2021, 8, 1215-1228.	3.0	11
258	Activation of Molecular Oxygen by a Cobalt(II) Tetraâ€NHC Complex**. Chemistry - A European Journal, 2021, 27, 1311-1315.	1.7	10
259	DpgCâ€Catalyzed Peroxidation of 3,5â€Dihydroxyphenylacetylâ€CoA (DPAâ€CoA): Insights into the Spinâ€Forbidden Transition and Charge Transfer Mechanisms**. Chemistry - A European Journal, 2021, 27, 1700-1712.	1.7	7
260	A Cu-bis(imidazole) Substrate Intermediate Is the Catalytically Competent Center for Catechol Oxidase Activity of Copper Amyloid-Î². Inorganic Chemistry, 2021, 60, 606-613.	1.9	6
261	Formation, Reactivity Tuning and Kinetic Investigations of Iron â€œDioxygenâ€•Intermediate Complexes and Derivatives in Multiphase Flow Reactions. Fluid Mechanics and Its Applications, 2021, , 67-82.	0.1	0
262	Molecular and heterogeneous water oxidation catalysts: recent progress and joint perspectives. Chemical Society Reviews, 2021, 50, 2444-2485.	18.7	102
263	A framework for constructing linear free energy relationships to design molecular transition metal catalysts. Physical Chemistry Chemical Physics, 2021, 23, 15543-15556.	1.3	5
264	A chromophore-supported structural and functional model of dinuclear copper enzymes, for facilitating mechanism of action studies. Chemical Science, 2021, 12, 12445-12450.	3.7	0
265	Oxy-sulfonylation of terminal alkynes via Câ€“S coupling enabled by copper photoredox catalysis. Green Chemistry, 2021, 23, 3569-3574.	4.6	27
266	Control of the Formation and Reaction of Copper-Oxygen Adduct Complexes in Multiphase Streams. Fluid Mechanics and Its Applications, 2021, , 7-38.	0.1	1
267	Metal-organic frameworks as chemical reaction flask. , 2021, , 365-387.		0
268	Transformations of empty CuI4 core to CuI2CuII2O and CuI6S cores via oxide and sulfide insertions. Chemical Communications, 2021, 57, 5386-5389.	2.2	4
269	Dioxygen-Binding in Metalloproteins and Corresponding Models. , 2021, , 200-237.		2
270	Catalyst-free photoinduced selective oxidative C(sp³)â€“C(sp³) bond cleavage in arylamines. Green Chemistry, 2021, 23, 3261-3267.	4.6	15
271	Synthetic Copper Complexes as Cu-Dependent Monooxygenase Model Systems and Catalysts for Dioxygen Reduction and Water Oxidation. , 2021, , 436-473.		3

#	Article	IF	Citations
272	Spectroscopy and photochemistry of copper nitrate clusters. Physical Chemistry Chemical Physics, 2021, 23, 9911-9920.	1.3	3
273	Copper(II)-Dioxygen Facilitated Activation of Nitromethane: Nitrogen Donors for the Synthesis of Substituted 2-Hydroxyimino-2-phenylacetonitriles and Phthalimides. Frontiers in Chemistry, 2020, 8, 622867.	1.8	0
274	Investigating reactivity and electronic structure of copper(II)-polypyridyl complexes and hydrogen peroxide. Inorganica Chimica Acta, 2021, 516, 120168.	1.2	2
275	Room temperature stable multitalent: highly reactive and versatile copper guanidine complexes in oxygenation reactions. Journal of Biological Inorganic Chemistry, 2021, 26, 249-263.	1.1	9
276	Antimicrobial Peptides and Copper(II) Ions: Novel Therapeutic Opportunities. Chemical Reviews, 2021, 121, 2648-2712.	23.0	55
277	¹⁷O-ESR Evidence for Zeolite Matrix Isolation of a Square Planar ZnO₃ Ring Radical with C_{2v} Symmetry. Journal of Physical Chemistry C, 2021, 125, 5136-5145.	1.5	2
278	Structural Characterization of the [CuOR]²⁺ Core. Journal of the American Chemical Society, 2021, 143, 3295-3299.	6.6	12
279	Immobilization of a copper complex based on the tripodal ligand (2â€aminoethyl)bis(2â€pyridylmethyl)amine (unsâ€penp). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 560-571.	0.6	7
280	A Thioether-Ligated Cupric Superoxide Model with Hydrogen Atom Abstraction Reactivity. Journal of the American Chemical Society, 2021, 143, 3707-3713.	6.6	23
281	Sulfur-Containing Analogues of the Reactive [CuOH]²⁺ Core. Inorganic Chemistry, 2021, 60, 5217-5223.	1.9	11
282	Mechanistic Insights into the Dicopper-Complex-Catalyzed Hydroxylation of Methane and Benzene Using Nitric Oxide: A DFT Study. Inorganic Chemistry, 2021, 60, 4599-4609.	1.9	4
283	Effect of the Co-cation on Cu Speciation in Cu-Exchanged Mordenite and ZSM-5 Catalysts for the Oxidation of Methane to Methanol. ACS Catalysis, 2021, 11, 4973-4987.	5.5	31
284	Controlling the Reactivity of Copper(II) Acylperoxide Complexes. Inorganic Chemistry, 2021, 60, 8554-8565.	1.9	5
285	Investigations of metal complexes with the tripodal tetradentate ligand tris(2â€(propanâ€2â€ylideneamino)ethyl)amine (imine 3 tren). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 1139-1144.	0.6	0
286	Bioinorganic Platforms for Sensing, Biomimicry, and Energy Catalysis. Chemistry Letters, 2021, 50, 974-986.	0.7	2
287	Catalytic Oxygenation of Hydrocarbons by Monoâ€Î¼â€oxo Dicopper(II) Species Resulting from Oâ€'O Cleavage of Tetranuclear Cu^I/Cu^{II} Peroxo Complexes. Angewandte Chemie - International Edition, 2021, 60, 14154-14162.	7.2	11
288	Ligandâ€Constraintâ€Induced Peroxide Activation for Electrophilic Reactivity. Angewandte Chemie, 2021, 133, 15081-15086.	1.6	0
289	Biomimetic metal-oxidant adducts as active oxidants in oxidation reactions. Coordination Chemistry Reviews, 2021, 435, 213807.	9.5	35

#	Article	IF	Citations
290	Ligandâ€Constraintâ€Induced Peroxide Activation for Electrophilic Reactivity. Angewandte Chemie - International Edition, 2021, 60, 14954-14959.	7.2	8
291	Katalytische Oxygenierung von Kohlenwasserstoffen durch Monoâ€Î¼â€oxoâ€Dikupfer(II)â€Spezies erzeugt durch Oâ€Oâ€Spaltung von tetranuklearen Cu I /Cu II â€Peroxoâ€Komplexen. Angewandte Chemie, 2021, 133, 14273-14281.	1.6	1
292	Aerobic Câ^'H Hydroxylation by Copper Imine Complexes: The Clipâ€andâ€Cleave Concept â€“ Versatility and Limits. European Journal of Inorganic Chemistry, 2021, 2021, 1961-1970.	1.0	4
293	Recent Computational Insights into the Oxygen Activation by Copper-Dependent Metalloenzymes. Topics in Catalysis, 2022, 65, 187-195.	1.3	5
294	Reactivity of Copper(I) Complexes Containing Ligands Derived from (1 S ,3 R)â€Camphoric Acid with Dioxygen. European Journal of Inorganic Chemistry, 2021, 2021, 2079-2088.	1.0	2
295	Theoretical Investigation of Hydrogenâ€Bondâ€Assisted Tetradentate N4 Copper(I) Chloride and trans â€1,2â€Peroxodicopper Complexes. European Journal of Inorganic Chemistry, 2021, 2021, 2194-2200.	1.0	1
296	A 3D MOF based on Adamantoid Tetracopper(II) and Aminophosphine Oxide Cages: Structural Features and Magnetic and Catalytic Properties. Inorganic Chemistry, 2021, 60, 9631-9644.	1.9	7
297	Can Particulate Matter and Nano Metal Oxide Particles Affect the Redox Cycling of Nitrosylcobalamin in Weakly Acidic Aqueous Solution?. European Journal of Inorganic Chemistry, 2021, 2021, 2325-2333.	1.0	4
298	Stable, but still reactive â€“ investigations on the effects of Lewis acid binding on copper nitrene intermediates. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 1495-1502.	0.6	6
299	Structurally Characterized Î¼-1,2-Peroxo/Superoxo Dicopper(II) Pair. Journal of the American Chemical Society, 2021, 143, 10361-10366.	6.6	14
300	Cuâ€Catalyzed Aerobic Oxidative Coupling of Tetrahydroâ€Î²â€carbolines with Indoles. ChemistrySelect, 2021, 6, 6272-6274.	0.7	1
301	Repurposing metalloproteins as mimics of natural metalloenzymes for small-molecule activation. Journal of Inorganic Biochemistry, 2021, 219, 111430.	1.5	10
302	Dynamic Interconversion of Metal Active Site Ensembles in Zeolite Catalysis. Annual Review of Chemical and Biomolecular Engineering, 2021, 12, 115-136.	3.3	12
303	Pentadentate Copper(II)-amidate complex as a precatalyst for electrocatalytic proton reduction. International Journal of Hydrogen Energy, 2021, 46, 21542-21548.	3.8	1
304	Spontaneous Formation of an Fe/Mn Diamond Core: Models for the Fe/Mn Sites in Class 1c Ribonucleotide Reductases. Inorganic Chemistry, 2021, 60, 8710-8721.	1.9	4
305	Ligand Radical Mediated Water Oxidation by a Family of Copper o-Phenylene Bis-oxamidate Complexes. Inorganic Chemistry, 2021, 60, 9442-9455.	1.9	18
306	Peroxides in metal complex catalysis. Coordination Chemistry Reviews, 2021, 437, 213859.	9.5	41
307	Selective Oxidation of Various Phenolic Contaminants by Activated Persulfate via the Hydrogen Abstraction Pathway. ACS ES&T Engineering, 2021, 1, 1275-1286.	3.7	30

#	Article	IF	Citations
308	Calciumâ€ion Binding Mediates the Reversible Interconversion of Cis and Trans Peroxido Dicopper Cores. Angewandte Chemie - International Edition, 2021, 60, 19836-19842.	7.2	6
309	Calciumâ€ion Binding Mediates the Reversible Interconversion of Cis and Trans Peroxido Dicopper Cores. Angewandte Chemie, 2021, 133, 19989-19995.	1.6	0
310	Cascade Reaction of Î±, Î²â€Unsaturated Ketones and 2â€Aminoaryl Alcohols for the Synthesis of 3â€Acylquinolines by a Copper Nanocatalyst. Advanced Synthesis and Catalysis, 2021, 363, 4422-4429.	2.1	8
311	Unified Mechanistic Concept of the Copper-Catalyzed and Amide-Oxazoline-Directed C(sp²)â€“H Bond Functionalization. ACS Catalysis, 2021, 11, 12620-12631.	5.5	12
312	Room Temperature Aerobic Peroxidation of Organic Substrates Catalyzed by Cobalt(III) Alkylperoxo Complexes. Journal of the American Chemical Society, 2021, 143, 14445-14450.	6.6	10
313	A mononuclear nonheme manganese(<scp>III</scp>)â€acylperoxo complex: Synthesis, characterization, and reactivity studies. Bulletin of the Korean Chemical Society, 2021, 42, 1513-1518.	1.0	3
314	Revisiting Alkane Hydroxylation with m â€CPBA (m â€Chloroperbenzoic Acid) Catalyzed by Nickel(II) Complexes. Chemistry - A European Journal, 2021, 27, 14730-14737.	1.7	14
315	Coordination of the Copper Centers in Particulate Methane Monooxygenase: Comparison between Methanotrophs and Characterization of the Cu_CSite by EPR and ENDOR Spectroscopies. Journal of the American Chemical Society, 2021, 143, 15358-15368.	6.6	24
316	Artificial Chemical Nuclease and Cytotoxic Activity of a Mononuclear Copper(I) Complex and a Related Binuclear Doubleâ€Stranded Helicate. European Journal of Inorganic Chemistry, 2021, 2021, 4103-4112.	1.0	3
317	Spektroskopische Charakterisierung eines reaktiven [Cu 2 (Î¼â€OH) 2] 2+ Intermediates in Cu/TEMPOâ€katalysierten aeroben Alkoholoxidationen. Angewandte Chemie, 2021, 133, 23201.	1.6	0
318	Using a monocopper-superoxo complex to prepare multicopper-peroxo species relevant to proposed enzyme intermediates. Journal of Inorganic Biochemistry, 2021, 222, 111498.	1.5	1
319	Role of catalytic nitrile decomposition in tricopper complex mediated direct partial oxidation of methane to methanol. Scientific Reports, 2021, 11, 19175.	1.6	3
320	Spectroscopic Characterization of a Reactive [Cu₂(Î¼â€OH)₂]²⁺ Intermediate in Cu/TEMPO Catalyzed Aerobic Alcohol Oxidation Reaction. Angewandte Chemie - International Edition, 2021, 60, 23018-23024.	7.2	16
321	Structural and Spectroscopic Evidence for a Side-on Fe(III)â€“Superoxo Complex Featuring Discrete Oâ€“O Bond Distances. Jacs Au, 2021, 1, 1389-1398.	3.6	9
322	Cellulose Depolymerization with LPMOâ€inspired Cu Complexes. ChemCatChem, 2021, 13, 4700-4704.	1.8	6
323	Characterization of copper complexes with derivatives of the ligand (2-aminoethyl)bis(2-pyridylmethyl)amine (uns-penp) and their reactivity towards oxygen. Journal of Inorganic Biochemistry, 2021, 223, 111544.	1.5	6
324	Cu-promoted intramolecular hydroxylation of C H bonds using directing groups with varying denticity. Journal of Inorganic Biochemistry, 2021, 223, 111557.	1.5	9
325	Synthesis, characterization and catalytic activity of a mononuclear nonheme copper(II)-iodosylbenzene adduct. Journal of Inorganic Biochemistry, 2021, 223, 111524.	1.5	3

#	Article	IF	Citations
326	Preparation of a biomimetic Cu(II) protoporphyrin magnetic nanocomposite and its application for the selective adsorption of angiotensin I. Microchemical Journal, 2021, 170, 106691.	2.3	1
327	Influence of the amine donor on hybrid guanidine-stabilized Bis(Î¼-oxido) dicopper(III) complexes and their tyrosinase-like oxygenation activity towards polycyclic aromatic alcohols. Journal of Inorganic Biochemistry, 2021, 224, 111541.	1.5	7
328	Chlorophyll a Ï€â€Cation Radical as Redox Mediator in Superoxide Dismutase (SOD) Mimetics. ChemPhysChem, 2021, 22, 344-348.	1.0	2
329	Copper Oxygenases. , 2021, , 500-523.		2
331	Mechanistic insights into dioxygen activation by a manganese corrole complex: a broken-symmetry DFT study. RSC Advances, 2021, 11, 24852-24861.	1.7	2
332	Redox-inactive metal single-site molecular complexes: a new generation of electrocatalysts for oxygen evolution?. Catalysis Science and Technology, 2021, 11, 6411-6424.	2.1	4
333	Synthesis of nanostructured cupric oxide for visible light assisted degradation of organic wastewater pollutants. Cogent Engineering, 2021, 8, 1920563.	1.1	5
334	Coordination chemistry of carboxamide â€˜Nxâ€™ ligands to metal ions for bio-inspired catalysis. Coordination Chemistry Reviews, 2020, 417, 213314.	9.5	20
335	Phosphine ligands as protecting groups for 3d complexes in oxidation by O2. Polyhedron, 2020, 186, 114609.	1.0	4
336	Molecular electrocatalysts for the oxygen reduction reaction. Nature Reviews Chemistry, 2017, 1, .	13.8	213
337	Recent Advances in Anticancer Copper Compounds. 2-Oxoglutarate-Dependent Oxygenases, 2019, , 91-119.	0.8	19
338	High-valence Cu^{II}Cu^{III} species in action: demonstration of aliphatic Câ€“H bond activation at room temperature. Chemical Communications, 2019, 55, 12711-12714.	2.2	9
339	Mechanistic dichotomies in redox reactions of mononuclear metalâ€“oxygen intermediates. Chemical Society Reviews, 2020, 49, 8988-9027.	18.7	61
340	Visible-light-induced aerobic oxidative desulfurization of 2-mercaptobenzimidazoles via a sulfinyl radical. Green Chemistry, 2020, 22, 5594-5598.	4.6	16
341	Reversible Scavenging of Dioxygen from Air by a Copper Complex. Journal of the American Chemical Society, 2021, 143, 18346-18352.	6.6	14
343	Structural Elucidation, Aggregation, and Dynamic Behaviour of N,N,N,Nâ€Copper(I) Schiff Base Complexes in Solid and in Solution: A Combined NMR, Xâ€ray Spectroscopic and Crystallographic Investigation. European Journal of Inorganic Chemistry, 2021, 2021, 4762-4775.	1.0	8
344	Modulation of a Î¼-1,2-Peroxo Dicopper(II) Intermediate by Strong Interaction with Alkali Metal Ions. Journal of the American Chemical Society, 2021, 143, 17751-17760.	6.6	12
345	Nonadiabatic Effects in the Molecular Oxidation of Subnanometric Cu₅ Clusters. Journal of Physical Chemistry A, 2021, 125, 9143-9150.	1.1	6

#	Article	IF	Citations
346	The Oxo-Wall Remains Intact: A Tetrahedrally Distorted Co(IV)â€“Oxo Complex. Journal of the American Chemical Society, 2021, 143, 16943-16959.	6.6	12
347	Chlorido(2,2â€²-{[2-(1-methyl-1H-imidazol-2-yl-ÎºN³)imidazolidine-1,3-diyl-ÎºN]bis(methylene)}bis(1-[illegible] perchlorate. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 547-551.	0.2	1
348	Comparative Study of Antioxidant and Pro-Oxidant Properties of Homoleptic and Heteroleptic Copper Complexes with Amino Acids, Dipeptides and 1,10-Phenanthroline: The Quest for Antitumor Compounds. Molecules, 2021, 26, 6520.	1.7	7
349	Probing Ligand Effects on the Ultrafast Dynamics of Copper Complexes via Midinfrared Pumpâ€“Probe and 2DIR Spectroscopies. Journal of Physical Chemistry B, 2021, 125, 12228-12241.	1.2	5
350	Dinitrogen Binding and Functionalization. , 2022, , 521-554.		5
351	Mechanistic Insight into the Oâ€“O Bond Activation by Manganese Corrole Complexes. Topics in Catalysis, 2022, 65, 493-504.	1.3	2
352	The influence of secondary interactions on the [Ni(O2)]+ mediated aldehyde oxidation reactions. Journal of Inorganic Biochemistry, 2021, 227, 111668.	1.5	2
353	Azideâ€“Alkyne â€œClickâ€•Reaction in Water Using Parts-Per-Million Amine-Functionalized Azoaromatic Cu(I) Complex as Catalyst: Effect of the Amine Side Arm. Inorganic Chemistry, 2021, 60, 17537-17554.	1.9	14
354	Sterically Stabilized End-On Superoxocopper(II) Complexes and Mechanistic Insights into Their Reactivity with Oâ€“H, Nâ€“H, and Câ€“H Substrates. Journal of the American Chemical Society, 2021, 143, 19731-19747.	6.6	12
355	Bioinspired Trinuclear Copper Catalyst for Water Oxidation with a Turnover Frequency up to 20000 s^{â€“1}. Journal of the American Chemical Society, 2021, 143, 19761-19768.	6.6	55
356	Influence of the spatial distribution of copper sites on the selectivity of the oxygen reduction reaction. Dalton Transactions, 2022, 51, 1206-1215.	1.6	14
357	Tris(Imidazolyl) Dicopper(I) Complex and its Reactivity to Exert Catalytic Oxidation of Sterically Hindered Phenol Substrates via a [Cu2O]2+ Core. Dalton Transactions, 2022, , .	1.6	0
358	Identification of a Stable Ozonide Ion Bound to a Single Cadmium Site within the Zeolite Cavity. Journal of Physical Chemistry C, 0, , .	1.5	1
359	A Heterogenized Copper Phenanthroline System to Catalyze the Oxygen Reduction Reaction. ChemElectroChem, 2022, 9, .	1.7	3
360	Computer simulation modelling of the simultaneous adsorption of Cd, Cu and Cr from aqueous solutions by agricultural clay soil: A PHREEQC geochemical modelling code coupled to parameter estimation (PEST) study. Ecological Modelling, 2022, 465, 109872.	1.2	11
361	Metal-Catalyzed Aerobic Oxidation Reactions. , 2022, , 75-131.		2
362	Copper Mediated Intramolecular vs. Intermolecular Oxygenations: The Spacer makes the Difference!. European Journal of Inorganic Chemistry, 2022, 2022, .	1.0	1
363	Entering Chemical Space with Theoretical Underpinning of the Mechanistic Pathways in the Chanâ€“Lam Amination. ACS Catalysis, 2022, 12, 1461-1474.	5.5	19

#	Article	IF	Citations
364	End-On Copper(I) Superoxo and Cu(II) Peroxo and Hydroperoxo Complexes Generated by Cryoreduction/Annealing and Characterized by EPR/ENDOR Spectroscopy. Journal of the American Chemical Society, 2022, 144, 377-389.	6.6	17
365	Cu-Catalyzed Intermolecular Î³-Site Câ€“H Amination of Cyclohexenone Derivatives: The Benefit of Bifunctional Ligands. ACS Catalysis, 2022, 12, 1732-1741.	5.5	6
366	Homogeneous Water Oxidation Catalyzed by Firstâ€Row Transition Metal Complexes: Unveiling the Relationship between Turnover Frequency and Reaction Overpotential. ChemSusChem, 2022, 15, .	3.6	18
367	Versatile Activity of a Copper(II) Complex Bearing a N₄â€Tetradentate Schiff Base Ligand with Reduced Oxygen Species. European Journal of Inorganic Chemistry, 2022, 2022, .	1.0	2
368	Multiple Proton-Coupled Electron Transfers at a Tricopper Cluster: Modeling the Reductive Regeneration Process in Multicopper Oxidases. Journal of the American Chemical Society, 2022, 144, 1709-1717.	6.6	3
369	Anion photoelectron spectroscopy and theoretical calculations of Cu4Onâ¯/0 (n = 1â€“4): Identification of stable quasi-square structure for Cu4O4â¯. Journal of Chemical Physics, 2022, 156, 054304.	1.2	3
370	Homochiral coordination polymers based on proline-derivative: structures, magnetic properties, and selective detection of Cr2O72â¯ anion. Journal of Solid State Chemistry, 2022, 308, 122894.	1.4	2
371	Electrocatalytic Water Oxidation Activity of Molecular Copper Complexes: Effect of Redox-Active Ligands. Inorganic Chemistry, 2022, 61, 3152-3165.	1.9	14
372	Controlling the Direction of S-Nitrosation versus Denitrosation: Reversible Cleavage and Formation of an Sâ€“N Bond within a Dicopper Center. Journal of the American Chemical Society, 2022, 144, 2867-2872.	6.6	5
373	Phenolate-bonded bis(Î¼-oxido)-bis-copper(<scp>iii</scp>) intermediates: hydroxylation and dehalogenation reactivities. Faraday Discussions, 2022, 234, 86-108.	1.6	3
374	DFT Mechanistic Insights into Aldehyde Deformylations with Biomimetic Metalâ€“Dioxygen Complexes: Distinct Mechanisms and Reaction Rules. Jacs Au, 2022, 2, 745-761.	3.6	6
375	Copperâ€Catalyzed Monooxygenation of Phenols: Evidence for a Mononuclear Reaction Mechanism. Angewandte Chemie, 0, , .	1.6	0
376	Gas-Phase Selective Oxidation of Methane into Methane Oxygenates. Catalysts, 2022, 12, 314.	1.6	8
377	Copperâ€Catalyzed Monooxygenation of Phenols: Evidence for a Mononuclear Reaction Mechanism. Angewandte Chemie - International Edition, 2022, 61, .	7.2	12
378	Theoretical perspective on mononuclear copper-oxygen mediated Câ€“H and Oâ€“H activations: A comparison between biological and synthetic systems. Chinese Journal of Catalysis, 2022, 43, 913-927.	6.9	10
379	Copper monooxygenase reactivity: Do consensus mechanisms accurately reflect experimental observations?. Journal of Inorganic Biochemistry, 2022, 231, 111780.	1.5	5
380	Oxygen Activation by a Copper Complex with Sulfur-Only Coordination Relevant to the Formylglycine Generating Enzyme. Inorganic Chemistry, 2022, 61, 6660-6671.	1.9	4
381	Redox-active ligands in artificial photosynthesis: a review. Environmental Chemistry Letters, 2022, 20, 3657-3695.	8.3	8

#	Article	IF	Citations
382	Second Sphere Interactions in Amyloidogenic Diseases. Chemical Reviews, 2022, 122, 12132-12206.	23.0	8
383	Comprehensive Theoretical View of the [Cu2O2] Sideâ€onâ€Peroxoâ€/Bisâ€Î¼â€Oxo Equilibria. ChemPhysChem, 2022, , .	1.0	6
384	Antisymmetric Spin Exchange in a Î¼-1,2-Peroxodicopper(II) Complex with an Orthogonal Cuâ€“Oâ€“Oâ€“Cu Arrangement and S = 1 Spin Ground State Characterized by THz-EPR. Jacs Au, 2022, 2, 1134-1143.	3.6	3
385	Dependence between luminescence properties of Cu(<scp>i</scp>) complexes and electronic/structural parameters derived from steric effects. New Journal of Chemistry, 2022, 46, 10584-10593.	1.4	2
386	Selective methane photooxidation into methanol under mild conditions promoted by highly dispersed Cu atoms on crystalline carbon nitrides. Chemical Communications, 2022, 58, 7419-7422.	2.2	16
387	Reaction of N-Acetylcysteine with Cu2+: Appearance of Intermediates with High Free Radical Scavenging Activity: Implications for Anti-/Pro-Oxidant Properties of Thiols. International Journal of Molecular Sciences, 2022, 23, 6199.	1.8	3
388	Oxygen reduction reaction in nature and its importance in life. , 2022, , 1-43.		1
389	Electronic Structure Regulation of Nickel Phosphide for Efficient Overall Water Splitting. Inorganic Chemistry, 2022, 61, 9318-9327.	1.9	23
390	Enhanced Photoelectrochemical Water Splitting of Black Silicon Photoanode with pHâ€Dependent Copperâ€Bipyridine Catalysts. Chemistry - A European Journal, 2022, 28, .	1.7	9
391	Chemoselective Chan-Lam coupling by directly using copper powders via mechanochemical metal activation for catalysis. Molecular Catalysis, 2022, 528, 112472.	1.0	5
392	Cu(OAc)2 Catalyzed Aerobic Oxidative 2-Aryl-3-acylquinoline Synthesis via Aza-Michael Addition and Aldol Condensation of Î±,Î²-Unsaturated ketones and 2-Aminobenzyl alcohols. Tetrahedron Letters, 2022, , 154043.	0.7	1
393	Isolating Fe-O2 Intermediates in Dioxygen Activation by Iron Porphyrin Complexes. Molecules, 2022, 27, 4690.	1.7	3
394	Exploring the Reaction Mechanism of Câ€“H Oxidation by Copperâ€“Salen Complexes. Journal of Physical Chemistry A, 0, , .	1.1	0
395	Cu(II) carboxylate arene Câ”€H functionalization: Tuning for nonradical pathways. Science Advances, 2022, 8, .	4.7	8
396	Oxygenation of copper(I) complexes containing fluorine tagged tripodal tetradentate chelates: significant ligand electronic effects. Journal of Coordination Chemistry, 0, , 1-19.	0.8	0
397	The reactivity of copper complexes with neuronal peptides promoted by catecholamines and its impact on neurodegeneration. Coordination Chemistry Reviews, 2022, 471, 214756.	9.5	8
398	Methane partial oxidation by monomeric Cu active center confined on ZIF-7. Chemical Engineering Journal, 2022, 450, 138472.	6.6	16
399	Dinuclear Copper(I) Complexes Supported by Bisâ€Tridentate Nâ€Donorâ€Ligands: Turningâ€On Tyrosinase Activity. European Journal of Inorganic Chemistry, 2022, 2022, .	1.0	5

#	Article	IF	Citations
400	A computational mechanistic study of CH hydroxylation with mononuclear copperâ€“oxygen complexes. Catalysis Science and Technology, 0, , .	2.1	0
401	Repurposing a peptide antibiotic as a catalyst: a multicopperâ€“daptomycin complex as a cooperative Oâ€“O bond formation and activation catalyst. Inorganic Chemistry Frontiers, 2022, 9, 4741-4752.	3.0	0
402	A multi-technique approach to unveil the redox behaviour and potentiality of homoleptic Cu^I complexes based on substituted bipyridine ligands in oxygenation reactions. Dalton Transactions, 2022, 51, 14439-14451.	1.6	1
403	High-spin, tetrahedral cobalt(<scp>ii</scp>) and nickel(<scp>ii</scp>) complexes supported by monoprotic aminophosphine ligands, and attempted extension to copper(<scp>ii</scp>) complexes: synthesis, characterization, and unexpected reactivity. New Journal of Chemistry, 0, , .	1.4	0
404	Heme/Cu-oxygen intermediates of amyloid Î² peptides associated with Alzheimer's disease. Advances in Inorganic Chemistry, 2022, , .	0.4	0
405	Anion Photoelectron Spectroscopy and Quantum Chemical Calculations of Bimetallic Oxide Clusters YCu₂O_n^{â€“/0} (n = 2â€“5). Journal of Physical Chemistry A, 2022, 126, 6067-6079.	1.1	1
406	Peroxide-Selective Reduction of O₂ at Redox-Inactive Rare-Earth(III) Triflates Generates an Ambiphilic Peroxide. Journal of the American Chemical Society, 2022, 144, 17295-17306.	6.6	4
407	Reactivity of Copper Complexes with Tripodal Tetradentate Ligands based on Camphoric Acid towards Dioxygen. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, , .	0.6	0
408	Computational Insights of Selective Intramolecular Oâ€atom Transfer Mediated by Bioinspired Copper Complexes. Chemistry - A European Journal, 2022, 28, .	1.7	2
409	Inner-Sphere Electron Transfer Induced Reversible Electron Reservoir Feature of Azoheteroarene Bridged Diruthenium Frameworks. Inorganic Chemistry, 2022, 61, 15735-15746.	1.9	4
410	Mimicking the Cu Active Site of Lytic Polysaccharide Monooxygenase Using Monoanionic Tridentate N-Donor Ligands. ACS Omega, 2022, 7, 35217-35232.	1.6	4
411	Proving ligand structure-reactivity correlation on multinuclear copper electrocatalysts supported on carbon black for the oxygen reduction reaction. Electrochimica Acta, 2022, 434, 141304.	2.6	3
412	New mechanistic insights into coupled binuclear copper monooxygenases from the recent elucidation of the ternary intermediate of tyrosinase. FEBS Letters, 2023, 597, 65-78.	1.3	10
414	Two amino acid Cu (II)-MOFs via one-pot method: Exhibiting good catalytic effect on the thermal decomposition of ammonium perchlorate and hexogen. Journal of Solid State Chemistry, 2022, 316, 123551.	1.4	2
415	Capture of activated dioxygen intermediates at the copper-active site of a lytic polysaccharide monooxygenase. Chemical Science, 2022, 13, 13303-13320.	3.7	14
416	Oxygen-atom transfer photochemistry of a molecular copper bromate complex. Chemical Communications, 2022, 58, 12608-12611.	2.2	2
417	Metal-coordinated azoaromatics: Strategies for sequential azo-reduction, isomerization and application potential. Coordination Chemistry Reviews, 2023, 475, 214895.	9.5	15
418	Operando identification of a side-on nickel superoxide intermediate and the mechanism of oxygen evolution on nickel oxyhydroxide. Chem Catalysis, 2023, 3, 100475.	2.9	13

#	Article	IF	Citations
419	Mechanistic Insight into Peptidylâ€Cysteine Oxidation by the Copperâ€Dependent Formylglycineâ€Generating Enzyme. Angewandte Chemie - International Edition, 2023, 62, .	7.2	6
420	Mechanistic Insight into Peptidylâ€Cysteine Oxidation by the Copperâ€Dependent Formylglycineâ€Generating Enzyme. Angewandte Chemie, 2023, 135, .	1.6	0
421	Confining Bimetal Sites in Porous Metal Silicate Materials for Aerobic Oxidation of Phenols under Mild Conditions. Inorganic Chemistry, 0, , .	1.9	2
422	Oxidation of Aldehydes into Carboxylic Acids by a Mononuclear Manganese(III) Iodosylbenzene Complex through Electrophilic Câ€“H Bond Activation. Journal of the American Chemical Society, 2023, 145, 888-897.	6.6	6
423	Oxygen-Enhanced Atom Transfer Radical Polymerization through the Formation of a Copper Superoxido Complex. Journal of the American Chemical Society, 2023, 145, 1906-1915.	6.6	15
424	Solarâ€Driven Water Splitting in Photovoltaic Electrolysis Systems Using Copper Terpyridine Complexes as Oxygen Evolution Catalysts. Solar Rrl, 2023, 7, .	3.1	3
425	Asymmetric Catalytic Aerobic Oxidative Radical Addition/Hydroxylation/1,4-Aryl Migration Reaction of Olefins. ACS Catalysis, 2023, 13, 815-823.	5.5	3
426	Enzyme-Inspired Coordination Polymers for Selective Oxidization of C(sp³)â€“H Bonds via Multiphoton Excitation. Journal of the American Chemical Society, 2023, 145, 2170-2182.	6.6	12
427	2D coordination sheets based on tetranuclear cuprofullerene pentafluorobenzoate and their electronic properties. Inorganic Chemistry Frontiers, 2023, 10, 1731-1738.	3.0	3
428	Bioinspired complexes confined in well-defined capsules: getting closer to metalloenzyme functionalities. Chemical Communications, 2023, 59, 4288-4299.	2.2	3
429	Mechanical Interlocking Enhances the Electrocatalytic Oxygen Reduction Activity and Selectivity of Molecular Copper Complexes. Journal of the American Chemical Society, 2023, 145, 6087-6099.	6.6	10
430	Hydroxyethyl starch stabilized copper-diethyldithiocarbamate nanocrystals for cancer therapy. Journal of Controlled Release, 2023, 356, 288-305.	4.8	6
431	Nanotheranostic: The futuristic therapy for copper mediated neurological sequelae. Journal of Drug Delivery Science and Technology, 2023, 80, 104193.	1.4	2
432	Bio-inspired mononuclear nonheme metal peroxo complexes: Synthesis, structures and mechanistic studies toward understanding enzymatic reactions. Coordination Chemistry Reviews, 2023, 480, 215021.	9.5	7
434	The Role of Heme and Copper in Alzheimerâ€™s Disease and Type 2 Diabetes Mellitus. Jacs Au, 2023, 3, 657-681.	3.6	7
435	Effect of oxidation on mechanical properties of copper nanowire: A ReaxFF (reactive force field) molecular dynamics study. Journal of Applied Physics, 2023, 133, 095302.	1.1	0
436	Low-Temperature Observation of the Excited-State Decay of Ruthenium-(Mono-2,2â€²:6â€²,2â€³-Terpyridine) Ions with Innocent Ligands: DFT Modeling of an ³MLCTâ€“³MC Intersystem Crossing Pathway. ACS Omega, 2023, 8, 11623-11633.	1.6	1
437	Copper Complexes Supported by Iminotriazole Ligands: Effective Catalysts for the Monooxygenation of Phenols. Organometallics, 2023, 42, 1774-1783.	1.1	2

#	Article	IF	Citations
438	Structural and Spectroscopic Characterization of Copper(III) Complexes and Subsequent One-Electron Oxidation Reaction and Reactivity Studies. Inorganic Chemistry, 2023, 62, 5387-5399.	1.9	6
439	Mechanistic Investigations into the Selective Reduction of Oxygen by a Multicopper Oxidase T3 Site-Inspired Dicopper Complex. ACS Catalysis, 2023, 13, 5712-5722.	5.5	3
440	Magnetoelectricity-Mediated Tunable Absorption and Release of Peroxide Dianions. Nano Letters, 0, , .	4.5	0
452	Copper-Catalyzed Consecutive Ullmann, Decarboxylation, Oxidation, and Dehydration Reaction for Synthesis of Pyrrolo or Pyrido[1,2-a]imidazo[1,2-c]quinazolines. Organic Letters, 0, , .	2.4	0
453	Copper-Catalyzed Aerobic Aminooxygenation of Cinnamyl N-Alkoxycarbamates via Substrate-Promoted Catalyst Activation. ACS Catalysis, 2023, 13, 6568-6573.	5.5	3
471	Late transition metal-ligand multiple bonds: Covalency and reactivity. Advances in Inorganic Chemistry, 2023, , 189-236.	0.4	0