Kenneth D Karlin

List of Publications by Year
in descending order

311 papers	23,632 citations	6592 79 h-index	14156 128 g-index
398 all docs	398 docs citations	398 times ranked	14546 citing authors

#	Article	IF	Citations
1	Synthesis, Structure, and Properties of Organic-Inorganic Perovskites and Related Materials. Progress in Inorganic Chemistry, 2007, , 1-121.	3.0	566
2	Reversible reaction of dioxygen (and carbon monoxide) with a copper(I) complex. X-ray structures of relevant mononuclear Cu(I) precursor adducts and the trans-(.mu.-1,2-peroxo)dicopper(II) product. Journal of the American Chemical Society, 1993, 115, 2677-2689.	6.6	489
3	Chemistry of Transition Metal Cyanide Compounds: Modern Perspectives. Progress in Inorganic Chemistry, 2007, , 283-391.	3.0	469
4	Transition Metal Dithiocarbamates: 1978-2003. Progress in Inorganic Chemistry, 2005, , 71-561.	3.0	450
5	Nitric Oxide in Biological Denitrification:â€‰ Fe/Cu Metalloenzyme and Metal Complex NOx Redox Chemistry. Chemical Reviews, 2002, 102, 1201-1234.	23.0	435
6	Kinetics and Thermodynamics of Copper(I)/Dioxygen Interaction. Accounts of Chemical Research, 1997, 30, 139-147.	7.6	405
7	Synthetic Models for Hemeâ^'Copper Oxidases. Chemical Reviews, 2004, 104, 1077-1134.	23.0	399
8	A copper-oxygen (Cu2-O2) complex. Crystal structure and characterization of a reversible dioxygen binding system. Journal of the American Chemical Society, 1988, 110, 3690-3692.	6.6	382
9	Metal Phosphonate Chemistry. Progress in Inorganic Chemistry, 2007, , 371-510.	3.0	326
10	Copper-mediated hydroxylation of an arene: model system for the action of copper monooxygenases. Structures of a binuclear copper(I) complex and its oxygenated product. Journal of the American Chemical Society, 1984, 106, 2121-2128.	6.6	323
11	The Transition Metal Coordination Chemistry of Hemilabile Ligands. Progress in Inorganic Chemistry, 2007, , 233-350.	3.0	317
12	Oxidant types in copperâ€“dioxygen chemistry: the ligand coordination defines the Cu n -O2 structure and subsequent reactivity. Journal of Biological Inorganic Chemistry, 2004, 9, 669-683.	1.1	314
13	The Chemistry of Transition Metal Complexes Containing Catechol and Semiquinone Ligands. Progress in Inorganic Chemistry, 2007, , 331-442.	3.0	307
14	Organoimido Complexes of the Transition Metals. Progress in Inorganic Chemistry, 2007, , 239-482.	3.0	288
15	Polyoxometalate Complexes in Organic Oxidation Chemistry. Progress in Inorganic Chemistry, 2007, , 317-370.	3.0	273
16	Doped Semiconductor Nanocrystals: Synthesis, Characterization, Physical Properties, and Applications. Progress in Inorganic Chemistry, 2005, , 47-126.	3.0	272
17	Tetragonal vs. trigonal coordination in copper(II) complexes with tripod ligands: structures and properties of [Cu(C21H24N4)Cl]PF6 and [Cu(C18H18N4)Cl]PF6. Inorganic Chemistry, 1982, 21, 4106-4108.	1.9	249
18	Hydrogen peroxide as a sustainable energy carrier: Electrocatalytic production of hydrogen peroxide and the fuel cell. Electrochimica Acta, 2012, 82, 493-511.	2.6	245

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19	Kinetics and thermodynamics of formation of copper-dioxygen adducts: oxygenation of mononuclear copper(I) complexes containing tripodal tetradentate ligands. Journal of the American Chemical Society, 1993, 115, 9506-9514.	6.6	212
20	Copperâ€“dioxygen complex mediated Câ€“H bond oxygenation: relevance for particulate methane monooxygenase (pMMO). Current Opinion in Chemical Biology, 2009, 13, 119-131.	2.8	212
21	The Role of the Pyrazolate Ligand in Building Polynuclear Transition Metal Systems. Progress in Inorganic Chemistry, 2007, , 151-238.	3.0	204
22	Reactions of a Copper(II) Superoxo Complex Lead to Cï£¿H and Oï£¿H Substrate Oxygenation: Modeling Copperâ€Monooxygenase Cï£¿H Hydroxylation. Angewandte Chemie - International Edition, 2008, 47, 82-85.	7.2	202
23	Coordination Chemistry with Sterically Hindered Hydrotris(pyrazolyl)borate Ligands: Organometallic and Bioinorganic Perspectives. Progress in Inorganic Chemistry, 2007, , 419-531.	3.0	188
24	Peroxo-, Oxo-, and Hydroxo-Bridged Dicopper Complexes:Â Observation of Exogenous Hydrocarbon Substrate Oxidation. Journal of the American Chemical Society, 1998, 120, 12960-12961.	6.6	180
25	Copper(I)â^'Dioxygen Reactivity of [(L)CuI]+(L = Tris(2-pyridylmethyl)amine):Â Kinetic/Thermodynamic and Spectroscopic Studies Concerning the Formation of Cuâ^'O2and Cu2â^'O2Adducts as a Function of Solvent Medium and 4-Pyridyl Ligand Substituent Variations. Inorganic Chemistry, 2003, 42, 1807-1824.	1.9	179
26	Copper(I) Complexes, Copper(I)/O2Reactivity, and Copper(II) Complex Adducts, with a Series of Tetradentate Tripyridylalkylamine Tripodal Ligandsâ^‡. Inorganic Chemistry, 2001, 40, 2312-2322.	1.9	177
27	A 1:1 Copperâ^'Dioxygen Adduct is an End-on Bound Superoxo Copper(II) Complex which Undergoes Oxygenation Reactions with Phenols. Journal of the American Chemical Society, 2007, 129, 264-265.	6.6	177
28	Activation of dioxygen by copper metalloproteins and insights from model complexes. Journal of Biological Inorganic Chemistry, 2017, 22, 253-288.	1.1	173
29	Synthetic Fe/Cu Complexes: Toward Understanding Heme-Copper Oxidase Structure and Function. Chemical Reviews, 2018, 118, 10840-11022.	23.0	166
30	Stereochemical Aspects of Metal Xanthate Complexes: Molecular Structures and Supramolecular Self-Assembly. Progress in Inorganic Chemistry, 2005, , 127-319.	3.0	165
31	Main Group Dithiocarbamate Complexes. Progress in Inorganic Chemistry, 2005, , 1-69.	3.0	158
32	Metal Chalcogenide Cluster Chemistry. Progress in Inorganic Chemistry, 0, , 637-803.	3.0	156
33	Higher Oligopyridines as a Structural Motif in Metallosupramolecular Chemistry. Progress in Inorganic Chemistry, 2007, , 67-138.	3.0	153
34	Spectroscopic and theoretical studies of an end-on peroxide-bridged coupled binuclear copper(II) model complex of relevance to the active sites in hemocyanin and tyrosinase. Journal of the American Chemical Society, 1991, 113, 8671-8679.	6.6	148
35	Dioxygen-copper reactivity: generation, characterization, and reactivity of a hydroperoxodicopper(II) complex. Journal of the American Chemical Society, 1988, 110, 6769-6780.	6.6	142
36	Phenoxyl Radical Complexes. Progress in Inorganic Chemistry, 2002, , 151-216.	3.0	142

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37	Hemeâ€“Copper/Dioxygen Adduct Formation, Properties, and Reactivity. Accounts of Chemical Research, 2007, 40, 563-572.	7.6	141
38	Cupric Superoxo-Mediated Intermolecular Câˆ’H Activation Chemistry. Journal of the American Chemical Society, 2011, 133, 1702-1705.	6.6	141
39	Reactivity patterns and comparisons in three classes of synthetic copper-dioxygen {Cu2-O2} complexes: implication for structure and biological relevance. Journal of the American Chemical Society, 1991, 113, 5322-5332.	6.6	139
40	Structural Studies of Copper(I) Complexes of Amyloidâ€Î²2 Peptide Fragments: Formation of Twoâ€Coordinate Bis(histidine) Complexes. Angewandte Chemie - International Edition, 2008, 47, 9084-9087.	7.2	133
41	Oxovanadium and Oxomolybdenum Clusters and Solids Incorporating Oxygen-Donor Ligands. Progress in Inorganic Chemistry, 2007, , 1-149.	3.0	131
42	Principles and Applications of Semiconductor Photoelectrochemistry. Progress in Inorganic Chemistry, 2007, , 21-144.	3.0	130
43	Reactions of dioxygen (O2) with mononuclear copper(I) complexes: temperature-dependent formation of peroxo- or oxo- (and dihydroxo-) bridged dicopper(II) complexes. Inorganic Chemistry, 1992, 31, 4322-4332.	1.9	129
44	Dioxygen-copper reactivity and functional modeling of hemocyanins. Reversible binding of O2 and carbon monoxide to dicopper(I) complexes [CuI2(L)]2+ (L = dinucleating ligand) and the structure of a bis(carbonyl) adduct, [CuI2(L)(CO)2]2+. Inorganic Chemistry, 1992, 31, 1436-1451.	1.9	128
45	Mononuclear Copper Complex-Catalyzed Four-Electron Reduction of Oxygen. Journal of the American Chemical Society, 2010, 132, 6874-6875.	6.6	127
46	Mechanistic Insights into the Oxidation of Substituted Phenols via Hydrogen Atom Abstraction by a Cupricâ€“Superoxo Complex. Journal of the American Chemical Society, 2014, 136, 9925-9937.	6.6	125
47	The Application of Polychalcogenide Salts to the Exploratory Synthesis of Solid State Multinary Chalcogenides at Intermediate Temperatures. Progress in Inorganic Chemistry, 2007, , 151-265.	3.0	123
48	(F8TPP)FeII/O2Reactivity Studies {F8TPP = Tetrakis(2,6-difluorophenyl)porphyrinate(2âˆ’)}:Â Spectroscopic (UVâˆ’Visible and NMR) and Kinetic Study of Solvent-Dependent (Fe/O2= 1:1 or 2:1) Reversible O2-Reduction and Ferryl Formation. Inorganic Chemistry, 2001, 40, 5754-5767.	1.9	121
49	Aryl Hydroxylation from a Mononuclear Copper-Hydroperoxo Species. Journal of the American Chemical Society, 2007, 129, 6998-6999.	6.6	121
50	The Chemistry of Metal Complexes with Selenolate and Tellurolate Ligands. Progress in Inorganic Chemistry, 0, , 353-417.	3.0	121
51	Metallacrowns: A New Class of Molecular Recognition Agents. Progress in Inorganic Chemistry, 0, , 83-177.	3.0	121
52	Vibrational, electronic, and resonance Raman spectral studies of [Cu2(YXL-O-)O2]+, a copper(II) peroxide model complex of oxyhemocyanin. Journal of the American Chemical Society, 1987, 109, 2624-2630.	6.6	119
53	Transition Metals in Polymeric Ï€-Conjugated Organic Frameworks. Progress in Inorganic Chemistry, 2007, , 123-231.	3.0	118
54	X-ray Structure and Physical Properties of the Oxo-Bridged Complex [(F8-TPP)Fe-O-Cu(TMPA)]+, F8-TPP = Tetrakis(2,6-difluorophenyl)porphyrinate(2-), TMPA = Tris(2-pyridylmethyl)amine: Modeling the Cytochrome c Oxidase Fe-Cu Heterodinuclear Active Site. Journal of the American Chemical Society, 1994, 116, 4753-4763.	6.6	113

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55	Spectroscopic studies of the charge transfer and vibrational features of binuclear copper(II) azide complexes: comparison to the coupled binuclear copper active site in met azide hemocyanin and tyrosinase. Journal of the American Chemical Society, 1989, 111, 5198-5209.	6.6	107
56	Spectroscopic and Theoretical Studies of Oxygenated Dicopper(I) Complexes Containing Hydrocarbon-Linked Bis[2-(2-pyridyl)ethyl]amine Units:Â Investigation of a Butterfly [Ću2(Î¼-Î·2:Î·2)(O2)]2+Core. Journal of the American Chemical Society, 1999, 121, 1299-1308.	6.6	106
57	X-Ray Crystallography: A Fast, First-Resort Analytical Tool. Progress in Inorganic Chemistry, 2007, , 1-19.	3.0	106
58	One-step selective hydroxylation of benzene to phenol with hydrogen peroxide catalysed by copper complexes incorporated into mesoporous silicaâ€“alumina. Chemical Science, 2016, 7, 2856-2863.	3.7	106
59	Spectroscopic and Computational Studies of an End-on Bound Superoxo-Cu(II) Complex: Geometric and Electronic Factors That Determine the Ground State. Inorganic Chemistry, 2010, 49, 9450-9459.	1.9	102
60	Homogeneous catalytic O2 reduction to water by a cytochrome c oxidase model with trapping of intermediates and mechanistic insights. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13990-13994.	3.3	102
61	Elaboration of copperâ€“oxygen mediated Câ€“H activation chemistry in consideration of future fuel and feedstock generation. Current Opinion in Chemical Biology, 2015, 25, 184-193.	2.8	102
62	Amine Oxidative N-Dealkylation via Cupric Hydroperoxide Cu-OOH Homolytic Cleavage Followed by Site-Specific Fenton Chemistry. Journal of the American Chemical Society, 2015, 137, 2867-2874.	6.6	100
63	Electrocatalytic O₂-Reduction by Synthetic Cytochrome c Oxidase Mimics: Identification of a â€œBridging Peroxoâ€•Intermediate Involved in Facile 4e^{â€“}/4H⁺ O₂-Reduction. Journal of the American Chemical Society, 2015, 137, 12897-12905.	6.6	100
64	Enhanced Catalytic Four-Electron Dioxygen (O₂) and Two-Electron Hydrogen Peroxide (H₂O₂) Reduction with a Copper(II) Complex Possessing a Pendant Ligand Pivalamido Group. Journal of the American Chemical Society, 2013, 135, 6513-6522.	6.6	98
65	Chemistry and structural studies on the dioxygen-binding copper-1,2-dimethylimidazole system. Journal of the American Chemical Society, 1993, 115, 11259-11270.	6.6	97
66	Ligand Influences in Copper-Dioxygen Complex-Formation and Substrate Oxidations. Advances in Inorganic Chemistry, 2006, , 131-184.	0.4	95
67	Bioinspired Heme, Heme/Nonheme Diiron, Heme/Copper, and Inorganic NOx Chemistry: â€¢NO_(g) Oxidation, Peroxynitriteâ^'Metal Chemistry, and â€¢NO_(g) Reductive Coupling. Inorganic Chemistry, 2010, 49, 6267-6282.	1.9	95
68	Nonclassical Metal Carbonyls. Progress in Inorganic Chemistry, 2007, , 1-112.	3.0	94
69	Nitric Oxide Reductase fromParacoccus denitrificansContains an Oxo-Bridged Heme/Non-Heme Diiron Center. Journal of the American Chemical Society, 2000, 122, 9344-9345.	6.6	93
70	Tuning Copperâ^'Dioxygen Reactivity and Exogenous Substrate Oxidations via Alterations in Ligand Electronics. Journal of the American Chemical Society, 2003, 125, 634-635.	6.6	93
71	Superoxo, Â-peroxo, and Â-oxo complexes from heme/O2 and heme-Cu/O2 reactivity: Copper ligand influences in cytochrome c oxidase models. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3623-3628.	3.3	93
72	Alterations of Nucleobase pK a Values upon Metal Coordination: Origins and Consequences. Progress in Inorganic Chemistry, 2005, , 385-447.	3.0	93

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73	Kinetic, thermodynamic, and spectral characterization of the primary copper-oxygen (Cu-O2) adduct in a reversibly formed and structurally characterized peroxo-dicopper(II) complex. Journal of the American Chemical Society, 1991, 113, 5868-5870.	6.6	92
74	Resonance Raman Investigation of Equatorial Ligand Donor Effects on the Cu2O22+Core in End-On and Side-On Î¼-Peroxo-Dicopper(II) and Bis-Î¼-oxo-Dicopper(III) Complexes. Journal of the American Chemical Society, 2003, 125, 5186-5192.	6.6	92
75	Synthesis and X-ray Absorption Spectroscopy Structural Studies of Cu(I) Complexes of HistidylHistidine Peptides:Â The Predominance of Linear 2-Coordinate Geometry. Journal of the American Chemical Society, 2007, 129, 5352-5353.	6.6	92
76	Dicopper(I) Complexes of Unsymmetrical Binucleating Ligands and Their Dioxygen Reactivities. Inorganic Chemistry, 2001, 40, 628-635.	1.9	90
77	Contrasting Copperâ^'Dioxygen Chemistry Arising from Alike Tridentate Alkyltriamine Copper(I) Complexes. Journal of the American Chemical Society, 2002, 124, 4170-4171.	6.6	90
78	Synthetic Heme/Copper Assemblies: Toward an Understanding of Cytochrome c Oxidase Interactions with Dioxygen and Nitrogen Oxides. Accounts of Chemical Research, 2015, 48, 2462-2474.	7.6	89
79	Dioxygen Reactivity of Mononuclear Heme and Copper Components Yielding A High-Spin Hemeâ^'Peroxoâ^'Cu Complex. Journal of the American Chemical Society, 2001, 123, 6183-6184.	6.6	88
80	Anion Binding and Recognition by Inorganic Based Receptors. Progress in Inorganic Chemistry, 2007, , 1-96.	3.0	88
81	Reversible O2 Binding to a Dinuclear Copper(I) Complex with Linked Tris(2-pyridylmethyl)amine Units: Kinetic-Thermodynamic Comparisons with Mononuclear Analogs. Journal of the American Chemical Society, 1995, 117, 12498-12513.	6.6	86
82	Macrocyclic Polyamine Zinc(II) Complexes as Advanced Models for Zinc(II) Enzymes. Progress in Inorganic Chemistry, 2007, , 443-491.	3.0	86
83	One is Lonely and Three is a Crowd: Two Coppers Are for Methane Oxidation. Angewandte Chemie - International Edition, 2010, 49, 6714-6716.	7.2	85
84	XAS Structural Comparisons of Reversibly Interconvertible Oxo- and Hydroxo-Bridged Heme-Copper Oxidase Model Compounds. Journal of the American Chemical Society, 1996, 118, 24-34.	6.6	84
85	Mono-, Bi-, and Trinuclear CuII-Cl Containing Products Based on the Tris(2-pyridylmethyl)amine Chelate Derived from Copper(I) Complex Dechlorination Reactions of Chloroform. Inorganic Chemistry, 2004, 43, 5987-5998.	1.9	84
86	Factors That Control Catalytic Two- versus Four-Electron Reduction of Dioxygen by Copper Complexes. Journal of the American Chemical Society, 2012, 134, 7025-7035.	6.6	84
87	Recent Trends in Metal Alkoxide Chemistry. Progress in Inorganic Chemistry, 2007, , 239-454.	3.0	83
88	A Bis-Acetonitrile Two-Coordinate Copper(I) Complex:â€‰ Synthesis and Characterization of Highly Soluble B(C6F5)4- Salts of [Cu(MeCN)2]+ and [Cu(MeCN)4]+. Inorganic Chemistry, 2002, 41, 2209-2212.	1.9	82
89	Metal Complexes of Calixarenes. Progress in Inorganic Chemistry, 2007, , 533-592.	3.0	82
90	Peroxide coordination to a dicopper(II) center. Dioxygen binding to a structurally characterized phenoxide-bridged binuclear copper(I) complex. Journal of the American Chemical Society, 1984, 106, 3372-3374.	6.6	81

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91	Copper(II)â^'Hydroperoxo Complex Induced Oxidative N-Dealkylation Chemistry. Journal of the American Chemical Society, 2007, 129, 6720-6721.	6.6	81
92	X-ray absorption edge spectroscopy of copper(I) complexes. Coordination geometry of copper(I) in the reduced forms of copper proteins and their derivatives with carbon monoxide. Inorganic Chemistry, 1989, 28, 1349-1357.	1.9	79
93	Copperâ^'Dioxygen Adducts and the Side-on Peroxo Dicopper(II)/Bis(Î¼-oxo) Dicopper(III) Equilibrium:Â Significant Ligand Electronic Effects. Inorganic Chemistry, 2006, 45, 3004-3013.	1.9	79
94	Formation and Characterization of a High-Spin Heme-Copper Dioxygen (Peroxo) Complex. Journal of the American Chemical Society, 1999, 121, 9885-9886.	6.6	78
95	Reaction of a Copperâ^'Dioxygen Complex with Nitrogen Monoxide (â€¢NO) Leads to a Copper(II)â^'Peroxynitrite Species. Journal of the American Chemical Society, 2008, 130, 6700-6701.	6.6	78
96	Functional modeling of copper nitrite reductases: reactions of NO2- or nitric oxide with copper(I) complexes. Journal of the American Chemical Society, 1991, 113, 6331-6332.	6.6	77
97	Activation of O2 by a binuclear copper(I) compound. Hydroxylation of a new xylyl-binucleating ligand to produce a phenoxy-bridged binuclear copper(II) complex; X-ray crystal structure of [Cu2{OC6H3[CH2N(CH2CH2py)2]2-2,6}(OMe)](py = 2-pyridyl). Journal of the Chemical Society Chemical Communications, 1981, , 881.	2.0	74
98	Recognition and Strand Scission at Junctions between Single- and Double-Stranded DNA by a Trinuclear Copper Complex. Journal of the American Chemical Society, 2001, 123, 5588-5589.	6.6	74
99	Heme/Non-Heme Diiron(II) Complexes and O2, CO, and NO Adducts as Reduced and Substrate-Bound Models for the Active Site of Bacterial Nitric Oxide Reductase. Journal of the American Chemical Society, 2005, 127, 3310-3320.	6.6	74
100	Stepwise Protonation and Electron-Transfer Reduction of a Primary Copperâ€"Dioxygen Adduct. Journal of the American Chemical Society, 2013, 135, 16454-16467.	6.6	74
101	A Study of Solid [{Cu(MePY2)}2O2]2+Using Resonance Raman and X-ray Absorption Spectroscopies:Â An Intermediate Cu2O2Core Structure or a Solid Solution?. Journal of the American Chemical Society, 1999, 121, 1870-1878.	6.6	73
102	Inferences from the1H-NMR Spectroscopic Study of an Antiferromagnetically Coupled Heterobinuclear Fe(III)â^'(X)â^'Cu(II)S= 2 Spin System (X = O2-, OH-). Journal of the American Chemical Society, 1997, 119, 3898-3906.	6.6	72
103	Effect of Protonation on Peroxoâ^'Copper Bonding:Â Spectroscopic and Electronic Structure Study of		

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109	Temperature-Independent Catalytic Two-Electron Reduction of Dioxygen by Ferrocenes with a Copper(II) Tris[2-(2-pyridyl)ethyl]amine Catalyst in the Presence of Perchloric Acid. Journal of the American Chemical Society, 2013, 135, 2825-2834.	6.6	68
110	Heme/O₂/â€¢NO Nitric Oxide Dioxygenase (NOD) Reactivity: Phenolic Nitration via a Putative Heme-Peroxynitrite Intermediate. Journal of the American Chemical Society, 2009, 131, 11304-11305.	6.6	67
111	Dioxygen-Binding Kinetics and Thermodynamics of a Series of Dicopper(I) Complexes with Bis[2-(2-pyridyl)ethyl]amine Tridendate Chelators Forming Side-On Peroxo-Bridged Dicopper(II) Adducts. Inorganic Chemistry, 2000, 39, 5884-5894.	1.9	66
112	Hemeâ^'Copperâ^'Dioxygen Complexes: Toward Understanding Ligand-Environmental Effects on the Coordination Geometry, Electronic Structure, and Reactivity. Inorganic Chemistry, 2010, 49, 3629-3645.	1.9	66
113	A N₃S_(thioether)-Ligated Cu^{II}-Superoxo with Enhanced Reactivity. Journal of the American Chemical Society, 2015, 137, 2796-2799.	6.6	66
114	Distinguishing Rate-Limiting Electron versus H-Atom Transfers in Cu2(O2)-Mediated OxidativeN-Dealkylations:Â Application of Inter- versus Intramolecular Kinetic Isotope Effects. Journal of the American Chemical Society, 2003, 125, 12670-12671.	6.6	64
115	New thermally stable hydroperoxo- and peroxo-copper complexes. Inorganic Chemistry, 1992, 31, 3001-3003.	1.9	63
116	The Influence of Ligands on Dirhodium(II) on Reactivity and Selectivity in Metal Carbene Reactions. Progress in Inorganic Chemistry, 2007, , 113-168.	3.0	63
117	Coordination Chemistry and Reactivity of a Cupric Hydroperoxide Species Featuring a Proximal H-Bonding Substituent. Inorganic Chemistry, 2012, 51, 12603-12605.	1.9	63
118	Solid-State Properties (Electronic, Magnetic, Optical) of Dithiolene Complex-Based Compounds. Progress in Inorganic Chemistry, 2004, , 399-489.	3.0	62
119	Copper(I) Complex O2-Reactivity with a N3S Thioether Ligand:Â a Copperâ^'Dioxygen Adduct Including Sulfur Ligation, Ligand Oxygenation, and Comparisons with All Nitrogen Ligand Analogues. Inorganic Chemistry, 2007, 46, 6056-6068.	1.9	62
120	Formation and Interconversion of End-on and Side-on Î¼-Peroxoâ^'Dicopper(II) Complexes. Journal of the American Chemical Society, 1996, 118, 3763-3764.	6.6	61
121	A Supramolecular Approach to Light Harvesting and Sensitization of Wide-Bandgap Semiconductors: Antenna Effects and Charge Separation. Progress in Inorganic Chemistry, 2007, , 1-95.	3.0	61
122	Copper Dioxygen Adducts: Formation of Bis(Î¼-oxo)dicopper(III) versus (Î¼-1,2)Peroxodicopper(II) Complexes with Small Changes in One Pyridyl-Ligand Substituent. Inorganic Chemistry, 2008, 47, 3787-3800.	1.9	61
123	Copperâ^'Hydroperoxo-Mediated N-Debenzylation Chemistry Mimicking Aspects of Copper Monooxygenases. Inorganic Chemistry, 2008, 47, 8736-8747.	1.9	59
124	Dioxygen-copper reactivity: x-ray structure and characterization of an (acylperoxo)dicopper complex. Journal of the American Chemical Society, 1987, 109, 6889-6891.	6.6	58
125	Structures and Structural Trends in Homoleptic Dithiolene Complexes. Progress in Inorganic Chemistry, 2004, , 55-110.	3.0	58
126	Copper(I)-dioxygen reactivity. 2. Reaction of a three-coordinate copper(I) complex with dioxygen, with evidence for a binuclear oxo-copper(II) species: structural characterization of a parallel-planar dihydroxo-bridged dimer. Inorganic Chemistry, 1984, 23, 519-521.	1.9	57

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127	The Chemistry of Peroxonitrites. Progress in Inorganic Chemistry, 2007, , 599-635.	3.0	57
128	Copper(I)â€Dioxygen Adducts and Copper Enzyme Mechanisms. Israel Journal of Chemistry, 2016, 56, 738-755.	1.0	57
129	Oxo- and hydroxo-bridged (porphyrin)iron(III)-copper(II) species as cytochrome c oxidase models: acid-base interconversions and x-ray structure of the Fe(III)-(O2-)-Cu(II) complex. Journal of the American Chemical Society, 1993, 115, 8513-8514.	6.6	56
130	Heterobinucleating Ligand-Induced Structural and Chemical Variations in [(L)FeIIIâˆ'Oâˆ'CuII]+Î¼-Oxo Complexes. Journal of the American Chemical Society, 1998, 120, 9696-9697.	6.6	56
131	Coordination Chemistry of Azacryptands. Progress in Inorganic Chemistry, 2007, , 167-316.	3.0	56
132	Acid-Induced Mechanism Change and Overpotential Decrease in Dioxygen Reduction Catalysis with a Dinuclear Copper Complex. Journal of the American Chemical Society, 2013, 135, 4018-4026.	6.6	56
133	Computational study of the activated O _H state in the catalytic mechanism of cytochrome c oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16844-16849.	3.3	56
134	Metal-Carbohydrate Complexes in Solution. Progress in Inorganic Chemistry, 2007, , 837-945.	3.0	55
135	Geometric and Electronic Structure of [{Cu(MeAN)}₂(Î¼-Î·²:Î·²(O₂^{2â€“}))]²⁺ with an Unusually Long Oâ€“O Bond: Oâ€“O Bond Weakening vs Activation for Reductive Cleavage. Journal of the American Chemical Society, 2012, 134, 8513-8524.	6.6	55
136	Tuning the Geometric and Electronic Structure of Synthetic High-Valent Heme Iron(IV)-Oxo Models in the Presence of a Lewis Acid and Various Axial Ligands. Journal of the American Chemical Society, 2019, 141, 5942-5960.	6.6	54
137	Slow Proton-Transfer Reactions in Organometallic and Bioinorganic Chemistry. Progress in Inorganic Chemistry, 0, , 1-65.	3.0	54
138	Synthesis and x-ray structural characterization of Cu(I) and Cu(II) derivatives of a new symmetric tripodal ligand N(CH2CH2-py)3, (py = 2-pyridyl). Inorganica Chimica Acta, 1982, 64, L219-L220.	1.2	53
139	An Ironâˆ'Peroxo Porphyrin Complex:Â New Synthesis and Reactivity Toward a Cu(II) Complex Giving a Hemeâˆ'Peroxoâˆ'Copper Adduct. Journal of the American Chemical Society, 2003, 125, 16160-16161.	6.6	53
140	Observation of a Cu^{II}₂(Î¼â€•1,2â€peroxo)/Cu^{III}₂(Î¼â€•oxo)₂ Equilibrium and its Implications for Copperâ€“Dioxygen Reactivity. Angewandte Chemie - International Edition, 2014, 53, 4935-4939.	7.2	53
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