

Kenneth D Karlin

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353
papers

20,092
citations

79
h-index

124
g-index

398
ext. papers

21,250
ext. citations

12
avg, IF

6.87
L-index

#	Paper	IF	Citations
353	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-(μ -1,2-peroxo)dicopper(II) product. <i>Journal of the American Chemical Society</i> , 1993 , 115, 2677-2689	16.4	435
352	Synthesis, Structure, and Properties of Organic-Inorganic Perovskites and Related Materials. <i>Progress in Inorganic Chemistry</i> , 2007 , 1-121		432
351	Chemistry of Transition Metal Cyanide Compounds: Modern Perspectives. <i>Progress in Inorganic Chemistry</i> , 2007 , 283-391		397
350	Transition Metal Dithiocarbamates: 1978-2003. <i>Progress in Inorganic Chemistry</i> , 2005 , 71-561		397
349	Nitric oxide in biological denitrification: Fe/Cu metalloenzyme and metal complex NO(x) redox chemistry. <i>Chemical Reviews</i> , 2002 , 102, 1201-34	68.1	394
348	Synthetic models for heme-copper oxidases. <i>Chemical Reviews</i> , 2004 , 104, 1077-133	68.1	362
347	Kinetics and Thermodynamics of Copper(I)/Dioxygen Interaction. <i>Accounts of Chemical Research</i> , 1997 , 30, 139-147	24.3	361
346	A copper-oxygen (Cu ₂ -O ₂) complex. Crystal structure and characterization of a reversible dioxygen binding system. <i>Journal of the American Chemical Society</i> , 1988 , 110, 3690-3692	16.4	340
345	Oxidant types in copper-dioxygen chemistry: the ligand coordination defines the Cu(n)-O ₂ structure and subsequent reactivity. <i>Journal of Biological Inorganic Chemistry</i> , 2004 , 9, 669-83	3.7	302
344	Metal Phosphonate Chemistry. <i>Progress in Inorganic Chemistry</i> , 2007 , 371-510		285
343	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. <i>Journal of the American Chemical Society</i> , 1984 , 106, 2121-2128	16.4	282
342	The Transition Metal Coordination Chemistry of Hemilabile Ligands. <i>Progress in Inorganic Chemistry</i> , 2007 , 233-350		269
341	The Chemistry of Transition Metal Complexes Containing Catechol and Semiquinone Ligands. <i>Progress in Inorganic Chemistry</i> , 2007 , 331-442		260
340	Doped Semiconductor Nanocrystals: Synthesis, Characterization, Physical Properties, and Applications. <i>Progress in Inorganic Chemistry</i> , 2005 , 47-126		244
339	Polyoxometalate Complexes in Organic Oxidation Chemistry. <i>Progress in Inorganic Chemistry</i> , 2007 , 317-370		232
338	Organoimido Complexes of the Transition Metals. <i>Progress in Inorganic Chemistry</i> , 2007 , 239-482		232
337	Tetragonal vs. trigonal coordination in copper(II) complexes with tripod ligands: structures and properties of [Cu(C ₂₁ H ₂₄ N ₄)Cl]PF ₆ and [Cu(C ₁₈ H ₁₈ N ₄)Cl]PF ₆ . <i>Inorganic Chemistry</i> , 1982 , 21, 4106-4108 ^{5.1}		214

336	Cyanide-Bridged Complexes of Transition Metals: A Molecular Magnetism Perspective. <i>Progress in Inorganic Chemistry</i> , 2009 , 155-334		195
335	Copper-dioxygen complex mediated C-H bond oxygenation: relevance for particulate methane monooxygenase (pMMO). <i>Current Opinion in Chemical Biology</i> , 2009 , 13, 119-31	9.7	194
334	Kinetics and thermodynamics of formation of copper-dioxygen adducts: oxygenation of mononuclear copper(I) complexes containing tripodal tetradentate ligands. <i>Journal of the American Chemical Society</i> , 1993 , 115, 9506-9514	16.4	191
333	Reactions of a copper(II) superoxo complex lead to C-H and O-H substrate oxygenation: modeling copper-monooxygenase C-H hydroxylation. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 82-5	16.4	186
332	The Role of the Pyrazolate Ligand in Building Polynuclear Transition Metal Systems. <i>Progress in Inorganic Chemistry</i> , 2007 , 151-238		185
331	Hydrogen Peroxide as a Sustainable Energy Carrier: Electrocatalytic Production of Hydrogen Peroxide and the Fuel Cell. <i>Electrochimica Acta</i> , 2012 , 82, 493-511	6.7	176
330	Coordination Chemistry with Sterically Hindered Hydrotris(pyrazolyl)borate Ligands: Organometallic and Bioinorganic Perspectives. <i>Progress in Inorganic Chemistry</i> , 2007 , 419-531		171
329	A 1:1 copper-dioxygen adduct is an end-on bound superoxo copper(II) complex which undergoes oxygenation reactions with phenols. <i>Journal of the American Chemical Society</i> , 2007 , 129, 264-5	16.4	169
328	Copper(I)-dioxygen reactivity of [(L)Cu(I)](+) (L = tris(2-pyridylmethyl)amine): kinetic/thermodynamic and spectroscopic studies concerning the formation of Cu-O ₂ and Cu ₂ -O ₂ adducts as a function of solvent medium and 4-pyridyl ligand substituent variations. <i>Inorganic Chemistry</i> , 2003 , 42, 1807-24	5.1	164
327	Copper(I) complexes, copper(I)/O ₂ reactivity, and copper(II) complex adducts, with a series of tetradentate tripyridylalkylamine tripodal ligands. <i>Inorganic Chemistry</i> , 2001 , 40, 2312-22	5.1	161
326	Peroxo-, Oxo-, and Hydroxo-Bridged Dicopper Complexes: Observation of Exogenous Hydrocarbon Substrate Oxidation. <i>Journal of the American Chemical Society</i> , 1998 , 120, 12960-12961	16.4	155
325	Stereochemical Aspects of Metal Xanthate Complexes: Molecular Structures and Supramolecular Self-Assembly. <i>Progress in Inorganic Chemistry</i> , 2005 , 127-319		149
324	Activation of dioxygen by copper metalloproteins and insights from model complexes. <i>Journal of Biological Inorganic Chemistry</i> , 2017 , 22, 253-288	3.7	137
323	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. <i>Journal of the American Chemical Society</i> , 1991 , 113, 8671-8679	16.4	136
322	Higher Oligopyridines as a Structural Motif in Metallosupramolecular Chemistry. <i>Progress in Inorganic Chemistry</i> , 2007 , 67-138		134
321	Cupric superoxo-mediated intermolecular C-H activation chemistry. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1702-5	16.4	126
320	Heme-copper/dioxygen adduct formation, properties, and reactivity. <i>Accounts of Chemical Research</i> , 2007 , 40, 563-72	24.3	125
319	Reactivity patterns and comparisons in three classes of synthetic copper-dioxygen {Cu ₂ -O ₂ } complexes: implication for structure and biological relevance. <i>Journal of the American Chemical Society</i> , 1991 , 113, 5322-5332	16.4	122

318	Dioxygen-copper reactivity: generation, characterization, and reactivity of a hydroperoxodicopper(II) complex. <i>Journal of the American Chemical Society</i> , 1988 , 110, 6769-6780	16.4	121
317	Synthetic Fe/Cu Complexes: Toward Understanding Heme-Copper Oxidase Structure and Function. <i>Chemical Reviews</i> , 2018 , 118, 10840-11022	68.1	116
316	Dioxygen-copper reactivity and functional modeling of hemocyanins. Reversible binding of O ₂ and carbon monoxide to dicopper(I) complexes [Cu ₂ (L)] ²⁺ (L = dinucleating ligand) and the structure of a bis(carbonyl) adduct, [Cu ₂ (L)(CO) ₂] ²⁺ . <i>Inorganic Chemistry</i> , 1992 , 31, 1436-1451	5.1	115
315	Metal Chalcogenide Cluster Chemistry. <i>Progress in Inorganic Chemistry</i> , 637-803		115
314	Structural studies of copper(I) complexes of amyloid-beta peptide fragments: formation of two-coordinate bis(histidine) complexes. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9084-7	16.4	114
313	Aryl hydroxylation from a mononuclear copper-hydroperoxo species. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6998-9	16.4	113
312	Reactions of dioxygen (O ₂) with mononuclear copper(I) complexes: temperature-dependent formation of peroxy- or oxo- (and dihydroxo-) bridged dicopper(II) complexes. <i>Inorganic Chemistry</i> , 1992 , 31, 4322-4332	5.1	111
311	Oxovanadium and Oxomolybdenum Clusters and Solids Incorporating Oxygen-Donor Ligands. <i>Progress in Inorganic Chemistry</i> , 2007 , 1-149		110
310	(F(8)TPP)Fe(II)/O(2) reactivity studies [F(8)TPP = tetrakis(2,6-difluorophenyl)porphyrinate(2-)]: spectroscopic (UV-Visible and NMR) and kinetic study of solvent-dependent (Fe/O(2) = 1:1 or 2:1) reversible O(2)-reduction and ferryl formation. <i>Inorganic Chemistry</i> , 2001 , 40, 5754-67	5.1	107
309	Mononuclear copper complex-catalyzed four-electron reduction of oxygen. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6874-5	16.4	106
308	Vibrational, electronic, and resonance Raman spectral studies of [Cu ₂ (YXL-O)O ₂] ⁺ , a copper(II) peroxide model complex of oxyhemocyanin. <i>Journal of the American Chemical Society</i> , 1987 , 109, 2624-2630	16.4	106
307	Mechanistic insights into the oxidation of substituted phenols via hydrogen atom abstraction by a cupric-superoxo complex. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9925-37	16.4	104
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305	Transition Metals in Polymeric Conjugated Organic Frameworks. <i>Progress in Inorganic Chemistry</i> , 2007 , 123-231		101
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300	Homogeneous catalytic O ₂ reduction to water by a cytochrome c oxidase model with trapping of intermediates and mechanistic insights. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 13990-4	11.5	93
299	The Organometallic Chemistry of Rh-, Ir-, Pd-, and Pt-Based Radicals: Higher Valent Species. <i>Progress in Inorganic Chemistry</i> , 2008 , 247-354		91
298	Chemistry and structural studies on the dioxygen-binding copper-1,2-dimethylimidazole system. <i>Journal of the American Chemical Society</i> , 1993 , 115, 11259-11270	16.4	91
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296	Nitric Oxide Reductase from <i>Paracoccus denitrificans</i> Contains an Oxo-Bridged Heme/Non-Heme Diiron Center. <i>Journal of the American Chemical Society</i> , 2000 , 122, 9344-9345	16.4	89
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290	Alterations of Nucleobase pK _a Values upon Metal Coordination: Origins and Consequences. <i>Progress in Inorganic Chemistry</i> , 2005 , 385-447		85
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