

# Xavier Ottenwaelder

## List of Publications by Year in descending order

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56  
papers

3,570  
citations

172457

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times ranked

3644  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and Spectroscopy of Copper <sup>II</sup> -Dioxygen Complexes. <i>Chemical Reviews</i> , 2004, 104, 1013-1046.	47.7	1,253
2	Ligand design for multidimensional magnetic materials: a metallosupramolecular perspective. <i>Dalton Transactions</i> , 2008, , 2780.	3.3	244
3	Ferromagnetic Coupling through Spin Polarization in a Dinuclear Copper(II) Metallacyclophane. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3039-3042.	13.8	150
4	Electrocatalytic O <sub>2</sub> Reduction by Covalently Immobilized Mononuclear Copper(I) Complexes: Evidence for a Binuclear Cu <sub>2</sub> O <sub>2</sub> Intermediate. <i>Journal of the American Chemical Society</i> , 2011, 133, 3696-3699.	13.7	132
5	Long-Range Magnetic Coupling through Extended $\pi$ -Conjugated Aromatic Bridges in Dinuclear Copper(II) Metallacyclophanes. <i>Journal of the American Chemical Society</i> , 2003, 125, 10770-10771.	13.7	103
6	Bis( $\mu$ -oxo)dicopper(III) Complexes of a Homologous Series of Simple Peralkylated 1,2-Diamines: A Steric Modulation of Structure, Stability, and Reactivity. <i>Inorganic Chemistry</i> , 2005, 44, 7345-7364.	4.0	102
7	Kinetic and Mechanistic Studies of the Electrocatalytic Reduction of O <sub>2</sub> to H <sub>2</sub> O with Mononuclear Cu Complexes of Substituted 1,10-Phenanthrolines. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12641-12650.	2.5	100
8	Three-Coordinate Terminal Imidoiron(III) Complexes: Structure, Spectroscopy, and Mechanism of Formation. <i>Inorganic Chemistry</i> , 2010, 49, 6172-6187.	4.0	95
9	Stabilization of copper(III) complexes by substituted oxamate ligands. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 781-790.	1.1	92
10	Synthesis, structure, and olefin polymerization with nickel(ii) N-heterocyclic carbene enolates. <i>Chemical Communications</i> , 2005, , 5693.	4.1	86
11	Reversible O <sup>2</sup> Bond Cleavage in Copper <sup>II</sup> -Dioxygen Isomers: A Impact of Anion Basicity. <i>Journal of the American Chemical Society</i> , 2006, 128, 9268-9269.	13.7	67
12	Synthesis, structure, spectroscopy and redox chemistry of square-planar nickel(ii) complexes with tetradentate o-phenylenedioxamidates and related ligands. <i>Dalton Transactions</i> , 2005, , 2516.	3.3	62
13	Alcohol Oxidation by Dioxygen and Aldehydes Catalysed by Square-Planar Cobalt(III) Complexes of Disubstituted Oxamides and Related Ligands. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 1235-1247.	2.4	61
14	A Biomimetic Mechanism for the Copper-Catalyzed Aerobic Oxygenation of 4- <i>tert</i> -Butylphenol. <i>Inorganic Chemistry</i> , 2015, 54, 8665-8672.	4.0	61
15	Synthesis of Highly Functionalized Triarylbi-muthines by Functional Group Manipulation and Use in Palladium- and Copper-Catalyzed Arylation Reactions. <i>Journal of Organic Chemistry</i> , 2016, 81, 5401-5416.	3.2	58
16	Rational Design of an Enneanuclear Copper(II) Complex with a Metallacyclophane Core. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 850-852.	13.8	56
17	From metal to ligand electroactivity in nickel(ii) oxamate complexes. <i>Chemical Communications</i> , 2004, , 504-505.	4.1	55
18	Ferromagnetic Coupling by Spin Polarization in a Trinuclear Copper(II) Metallacyclophane with a Triangular Cage-Like Structure. <i>Inorganic Chemistry</i> , 2009, 48, 5244-5249.	4.0	47

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19	Spin Control in Ladderlike Hexanuclear Copper(II) Complexes with Metallacyclophane Cores. <i>Inorganic Chemistry</i> , 2004, 43, 2768-2770.	4.0	43
20	A Square-Planar Dinickel(II) Complex with a Noninnocent Dinucleating Oxamate Ligand: Evidence for a Ligand Radical Species. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 1067-1071.	2.0	41
21	Magnetic Anisotropy of a High-Spin Octanuclear Nickel(II) Complex with a meso-Helicite Core. <i>Inorganic Chemistry</i> , 2004, 43, 7594-7596.	4.0	41
22	Redox Noninnocence of the Bridge in Copper(II) Salophen and Bis(oxamato) Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 9013-9026.	4.0	38
23	Aerobic epoxidation of olefins catalysed by square-planar cobalt(III) complexes of bis-N,N <sup>2</sup> -disubstituted oxamides and related ligands. <i>Tetrahedron Letters</i> , 1997, 38, 2377-2380.	1.4	37
24	Reversible Double Oxidation and Protonation of the Non-Innocent Bridge in a Nickel(II) Salophen Complex. <i>Inorganic Chemistry</i> , 2012, 51, 12796-12804.	4.0	37
25	Molecular and electronic structure of square-planar nickel(ii), nickel(iii) and nickel(iii)π-cation radical complexes with a tetradentate o-phenylenedioxamate redox-active ligand. <i>Dalton Transactions</i> , 2005, , 2527.	3.3	36
26	Asymmetric Synthesis of Fortucine and Reassignment of Its Absolute Configuration. <i>Chemistry - A European Journal</i> , 2014, 20, 7581-7584.	3.3	35
27	Aerobic epoxidation of olefins catalysed by square-planar nickel(II) complexes of bis-N, N <sup>2</sup> -disubstituted oxamides and related ligands. <i>Tetrahedron Letters</i> , 1998, 39, 2869-2872.	1.4	33
28	A bio-inspired synthesis of oxindoles by catalytic aerobic dual C-H functionalization of phenols. <i>Chemical Science</i> , 2016, 7, 358-369.	7.4	32
29	Rational Design of Homo and Hetero Hexanuclear Coordination Compounds: Syntheses and Magnetic Properties of [Cu <sub>2</sub> M <sub>4</sub> ] (M = Cu, Ni) Species and the Crystal Structure of {[Cu(tmen)(H <sub>2</sub> O)] <sub>2</sub> [Cu(tmen)] <sub>2</sub> [Cu <sub>2</sub> L](H <sub>2</sub> O)}(ClO <sub>4</sub> ) <sub>4</sub> ·2H <sub>2</sub> O. <i>European Journal of Inorganic Chemistry</i> , 2000, 2000, 951-957.	2.0	31
30	Charge-assisted hydrogen bond-directed self-assembly of an amphiphilic zwitterionic quinonemonoimine at the liquid-solids interface. <i>Chemical Communications</i> , 2011, 47, 11255.	4.1	29
31	Self-assembly and magnetic properties of a double-propeller octanuclear copper(ii) complex with a meso-helicite-type metallacryptand core. <i>Chemical Communications</i> , 2004, , 920-921.	4.1	28
32	The two spin states of an end-on copper(ii)-superoxide mimic. <i>Chemical Communications</i> , 2011, 47, 8055.	4.1	26
33	A Unique Heterotopic Ligand for Sequential Synthesis of Polymetallic Complexes. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 323-325.	2.0	25
34	Catalytic aerobic oxidation of phenols to ortho-quinones with air-stable copper precatalysts. <i>Dalton Transactions</i> , 2015, 44, 12094-12097.	3.3	25
35	Mechanochemistry in transition metal-catalyzed reactions. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 32, 100524.	5.9	22
36	Propylene Polymerization with Cyclopentadienyltitanium(IV) Hydroxylaminate Complexes. <i>Organometallics</i> , 2009, 28, 405-412.	2.3	19

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37	Solvent-free mechanochemical oxidation and reduction of biomass-derived 5-hydroxymethyl furfural. <i>Green Chemistry</i> , 2018, 20, 5261-5265.	9.0	19
38	An Na <sub>8</sub> Cluster in the Structure of a Novel Oxamato-Bridged NaICuII Three-Dimensional Coordination Polymer. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 209-212.	2.0	16
39	Controlled nitrene transfer from a tyrosinase-like arylnitroso-copper complex. <i>Chemical Communications</i> , 2015, 51, 11206-11209.	4.1	14
40	Formation and Reactivity of a Biomimetic Hydroperoxocopper(II) Cryptate. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 4204-4211.	2.0	10
41	Extremely Small Iron Oxide Nanoparticles Stabilized with Catechol-Functionalized Multidentate Block Copolymer for Enhanced MRI. <i>ChemistrySelect</i> , 2016, 1, 4087-4091.	1.5	9
42	Programmed Synthesis of Tetra-Aryl Thiophenes with Stepwise, Ester-Controlled Regioselectivity. <i>Organic Letters</i> , 2021, 23, 7348-7352.	4.6	9
43	Supramolecular control of monooxygenase reactivity in a copper cryptate. <i>Dalton Transactions</i> , 2016, 45, 11109-11119.	3.3	8
44	Ligand and electronic effects on copper-arylnitroso self-assembly. <i>New Journal of Chemistry</i> , 2018, 42, 7758-7764.	2.8	8
45	Synthesis of a sulfonamide-Schiff base ligand and its Cu(II), Fe(III) and Co(III) complexes. <i>Inorganica Chimica Acta</i> , 2013, 407, 25-30.	2.4	7
46	Five Nitrogen Oxidation States from Nitro to Amine: Stabilization and Reactivity of a Metastable Arylhydroxylamine Complex. <i>Journal of the American Chemical Society</i> , 2020, 142, 19023-19028.	13.7	7
47	Tuning Inner-Sphere Electron Transfer in a Series of Copper/Nitrosoarene Adducts. <i>Inorganic Chemistry</i> , 2020, 59, 8678-8689.	4.0	6
48	Homochiral crystal generation via sequential dehydration and Viedma ripening. <i>CrystEngComm</i> , 2016, 18, 4277-4280.	2.6	5
49	Bio-inspired oxidation chemistry of a Cu(II)-fluoride cryptate with C <sub>3</sub> -symmetry. <i>Inorganica Chimica Acta</i> , 2018, 481, 106-112.	2.4	4
50	Electronic and electrochemical properties of cationic complexes [Fe(R-Sal) <sub>2</sub> Trien] <sup>+</sup> in solution: Evidence of formation of phenoxyl radicals upon oxidation. <i>Inorganic Chemistry Communication</i> , 2007, 10, 1549-1553.	3.9	3
51	High-yield synthesis of potentially ditopic coordinating cryptands and their metal complexes. <i>Tetrahedron Letters</i> , 2013, 54, 3363-3365.	1.4	3
52	Development of 3,5-Di-tert-butylphenol as a Model Substrate for Biomimetic Aerobic Copper Catalysis. <i>Synlett</i> , 2017, 28, 1548-1553.	1.8	3
53	Oxygen-atom transfer to a nucleophilic molybdenum complex. <i>Dalton Transactions</i> , 2010, 39, 2644.	3.3	1
54	Intramolecular H-bond stabilization of a primary hydroxylamine in salen-type metal complexes. <i>Chemical Communications</i> , 2021, 57, 10403-10406.	4.1	1

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55	Structure and Spectroscopy of Copperâ€™Dioxygen Complexes. ChemInform, 2004, 35, no.	0.0	0
56	Asymmetric Synthesis of Fortucine and Reassignment of Its Absolute Configuration. Chemistry - A European Journal, 2014, 20, 7529-7529.	3.3	0