Isaac Garcia-Bosch

List of Publications by Year
in descending order

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31 papers	2,739 citations	304368 22 h-index	433756 31 g-index
33 all docs	33 docs citations	33 times ranked	2992 citing authors

#	Article	IF	Citations
1	Efficient water oxidation catalysts based on readily available iron coordination complexes. Nature Chemistry, 2011, 3, 807-813.	6.6	716
2	Stereospecific Cï£¿H Oxidation with H₂O₂ Catalyzed by a Chemically Robust Siteâ€Isolated Iron Catalyst. Angewandte Chemie - International Edition, 2009, 48, 5720-5723.	7.2	254
3	Asymmetric Epoxidation with H₂O₂ by Manipulating the Electronic Properties of Non-heme Iron Catalysts. Journal of the American Chemical Society, 2013, 135, 14871-14878.	6.6	216
4	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
5	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
6	Electronic Effects on Singleâ€Site Iron Catalysts for Water Oxidation. Chemistry - A European Journal, 2013, 19, 8042-8047.	1.7	118
7	A Broad Substrateâ€Scope Method for Fast, Efficient and Selective Hydrogen Peroxideâ€Epoxidation. Advanced Synthesis and Catalysis, 2009, 351, 348-352.	2.1	109
8	O₂â€…Activation and Selective Phenolate orthoâ€…Hydroxylation by an Unsymmetric Dicopper Î¼â€Î·¹:Î·¹â€Peroxido Complex. Angewandte Chemie - International Edition, 2010, 49, 2406-2409.	7.2	104
9	Copperâ€Catalyzed Oxidation of Alkanes with H₂O₂ under a Fentonâ€like Regime. Angewandte Chemie - International Edition, 2016, 55, 12873-12876.	7.2	98
10	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
11	Highly Stereoselective Epoxidation with H₂O₂ Catalyzed by Electron-Rich Aminopyridine Manganese Catalysts. Organic Letters, 2013, 15, 6158-6161.	2.4	80
12	Tyrosinaseâ€Like Reactivity in a Cu^{III}₂(Î¼â€O)₂ Species. Chemistry - A European Journal, 2008, 14, 3535-3538.	1.7	73
13	Stereoselective Epoxidation of Alkenes with Hydrogen Peroxide using a Bipyrrolidineâ€Based Family of Manganese Complexes. Advanced Synthesis and Catalysis, 2012, 354, 65-70.	2.1	72
14	Catalytic Aerobic Oxidation of Alcohols by Copper Complexes Bearing Redox-Active Ligands with Tunable H-Bonding Groups. Journal of the American Chemical Society, 2018, 140, 16625-16634.	6.6	63
15	Decoding the Mechanism of Intramolecular Cu-Directed Hydroxylation of sp³ Câ€“H Bonds. Journal of Organic Chemistry, 2017, 82, 7887-7904.	1.7	61
16	Substrate and Lewis Acid Coordination Promote Oâ€“O Bond Cleavage of an Unreactive L₂Cu^{II}₂(O₂^{2â€“}) Species to Form L₂Cu^{III}₂(O)₂ Cores with Enhanced Oxidative Reactivity. Journal of the American Chemical Society, 2017, 139, 3186-3195.	6.6	50
17	Ironâ€Catalyzed Cï£¿H Hydroxylation and Olefin cisâ€Dihydroxylation Using a Singleâ€Electron Oxidant and Water as the Oxygenâ€Atom Source. Chemistry - A European Journal, 2012, 18, 13269-13273.	1.7	48
18	Selective Orthoâ€Hydroxylationâ€“Defluorination of 2â€Fluorophenolates with a Bis(Î¼â€oxo)dicopper(III) Species. Angewandte Chemie - International Edition, 2014, 53, 9608-9612.	7.2	34

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19	Electrophilic Arene Hydroxylation and Phenol Oï£¿H Oxidations Performed by an Unsymmetric Î¼â€Î·¹:Î·¹â€O₂â€Peroxo Dicopper(II) Complex. Chemistry - A European Journal, 2012, 18, 2113-2122.	1.7	27
20	Dioxygen Activation by a Macrocyclic Copper Complex Leads to a Cu₂O₂ Core with Unexpected Structure and Reactivity. Chemistry - A European Journal, 2016, 22, 5133-5137.	1.7	25
21	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
22	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
23	Copperâ€Catalyzed Oxidation of Alkanes with H₂O₂ under a Fentonâ€like Regime. Angewandte Chemie, 2016, 128, 13065-13068.	1.6	19
24	De Novo Design of a Self-Assembled Artificial Copper Peptide that Activates and Reduces Peroxide. ACS Catalysis, 2021, 11, 10267-10278.	5.5	15
25	Copper-Catalyzed Oxidation of Alkanes under Mild Conditions. Synlett, 2017, 28, 1237-1243.	1.0	12
26	Cu-promoted intramolecular hydroxylation of C H bonds using directing groups with varying denticity. Journal of Inorganic Biochemistry, 2021, 223, 111557.	1.5	9
27	Practical Oneâ€Pot Multistep Synthesis of 2Hâ€1,3â€Benzoxazines Using Copper, Hydrogen Peroxide, and Triethylamine. European Journal of Organic Chemistry, 2021, 2021, 4536-4540.	1.2	4
28	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
29	Synthetic Copper Complexes as Cu-Dependent Monooxygenase Model Systems and Catalysts for Dioxygen Reduction and Water Oxidation. , 2021, , 436-473.		3
30	Mononuclear and Dinuclear Copper Complexes of Tridentate Redoxâ€active Ligands with Tunable Hâ€bonding Donors: Structure, Spectroscopy and H + /e â^' Reactivity. Chemistry - an Asian Journal, 2021, 16, 1608-1618.	1.7	3
31	Synthesis and Reactivity of Ampy-Based Ruthenium(II) Catalysts for Transfer Hydrogenation of Ketones. Organometallics, 2022, 41, 686-697.	1.1	3