

Isaac Garcia-Bosch

List of Publications by Year in descending order

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31
papers

2,739
citations

304743

22
h-index

434195

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. <i>Nature Chemistry</i> , 2011, 3, 807-813.	13.6	716
2	Stereospecific C ₂ H ₂ Oxidation with H ₂ O ₂ Catalyzed by a Chemically Robust Site-Isolated Iron Catalyst. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5720-5723.	13.8	254
3	Asymmetric Epoxidation with H ₂ O ₂ by Manipulating the Electronic Properties of Non-heme Iron Catalysts. <i>Journal of the American Chemical Society</i> , 2013, 135, 14871-14878.	13.7	216
4	Copper-Promoted Functionalization of Organic Molecules: from Biologically Relevant Cu/O ₂ Model Systems to Organometallic Transformations. <i>Chemical Reviews</i> , 2019, 119, 2954-3031.	47.7	201
5	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, 9925-9937.	13.7	125
6	Electronic Effects on Single-Site Iron Catalysts for Water Oxidation. <i>Chemistry - A European Journal</i> , 2013, 19, 8042-8047.	3.3	118
7	A Broad Substrate-Scope Method for Fast, Efficient and Selective Hydrogen Peroxide-Epoxidation. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 348-352.	4.3	109
8	O ₂ -Activation and Selective Phenolate <i>ortho</i> -Hydroxylation by an Unsymmetric Dicopper(II)-Peroxido Complex. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2406-2409.	13.8	104
9	Copper-Catalyzed Oxidation of Alkanes with H ₂ O ₂ under a Fenton-Like Regime. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12873-12876.	13.8	98
10	Synthetic Heme/Copper Assemblies: Toward an Understanding of Cytochrome <i>c</i> Oxidase Interactions with Dioxygen and Nitrogen Oxides. <i>Accounts of Chemical Research</i> , 2015, 48, 2462-2474.	15.6	89
11	Highly Stereoselective Epoxidation with H ₂ O ₂ Catalyzed by Electron-Rich Aminopyridine Manganese Catalysts. <i>Organic Letters</i> , 2013, 15, 6158-6161.	4.6	80
12	Tyrosinase-Like Reactivity in a Cu(II)-O ₂ Species. <i>Chemistry - A European Journal</i> , 2008, 14, 3535-3538.	3.3	73
13	Stereoselective Epoxidation of Alkenes with Hydrogen Peroxide using a Bipyridine-Based Family of Manganese Complexes. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 65-70.	4.3	72
14	Catalytic Aerobic Oxidation of Alcohols by Copper Complexes Bearing Redox-Active Ligands with Tunable H-Bonding Groups. <i>Journal of the American Chemical Society</i> , 2018, 140, 16625-16634.	13.7	63
15	Decoding the Mechanism of Intramolecular Cu-Directed Hydroxylation of <i>sp</i> ³ C-H Bonds. <i>Journal of Organic Chemistry</i> , 2017, 82, 7887-7904.	3.2	61
16	Substrate and Lewis Acid Coordination Promote O-O Bond Cleavage of an Unreactive L ₂ Cu(II)(O ₂) ²⁺ Species to Form L ₂ Cu(III)(O) ₂ Cores with Enhanced Oxidative Reactivity. <i>Journal of the American Chemical Society</i> , 2017, 139, 3186-3195.	13.7	50
17	Iron-Catalyzed C ₂ H ₂ Hydroxylation and Olefin <i>cis</i> -Dihydroxylation Using a Single-Electron Oxidant and Water as the Oxygen-Atom Source. <i>Chemistry - A European Journal</i> , 2012, 18, 13269-13273.	3.3	48
18	Selective <i>ortho</i> -Hydroxylation-Defluorination of 2-Fluorophenolates with a Bis(μ-oxo)dicopper(III) Species. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9608-9612.	13.8	34

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19	Electrophilic Arene Hydroxylation and Phenol O ₂ H Oxidations Performed by an Unsymmetric $\mu_4\text{-}[\text{Cu}(\text{OAc})_2]_2$ Peroxo Dicopper(II) Complex. <i>Chemistry - A European Journal</i> , 2012, 18, 2113-2122.		27
20	Dioxygen Activation by a Macrocyclic Copper Complex Leads to a Cu_2O_2 Core with Unexpected Structure and Reactivity. <i>Chemistry - A European Journal</i> , 2016, 22, 5133-5137.	3.3	25
21	Structure, Spectroscopy, and Reactivity of a Mononuclear Copper Hydroxide Complex in Three Molecular Oxidation States. <i>Journal of the American Chemical Society</i> , 2020, 142, 12265-12276.	13.7	25
22	Directed Hydroxylation of sp^2 and sp^3 C-H Bonds Using Stoichiometric Amounts of Cu and H_2O_2 . <i>Inorganic Chemistry</i> , 2019, 58, 7584-7592.	4.0	24
23	Copper-Catalyzed Oxidation of Alkanes with H_2O_2 under a Fenton-like Regime. <i>Angewandte Chemie</i> , 2016, 128, 13065-13068.	2.0	19
24	De Novo Design of a Self-Assembled Artificial Copper Peptide that Activates and Reduces Peroxide. <i>ACS Catalysis</i> , 2021, 11, 10267-10278.	11.2	15
25	Copper-Catalyzed Oxidation of Alkanes under Mild Conditions. <i>Synlett</i> , 2017, 28, 1237-1243.	1.8	12
26	Cu-promoted intramolecular hydroxylation of C-H bonds using directing groups with varying denticity. <i>Journal of Inorganic Biochemistry</i> , 2021, 223, 111557.	3.5	9
27	Practical One-Pot Multistep Synthesis of 2H-1,3-Benzoxazines Using Copper, Hydrogen Peroxide, and Triethylamine. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 4536-4540.	2.4	4
28	Tunable intramolecular multicenter H-bonding interactions in first-row metal complexes bearing bidentate redox-active ligands. <i>Journal of Coordination Chemistry</i> , 2019, 72, 1346-1357.	2.2	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 Redox-active Ligands with Tunable H-bonding Donors: Structure, Spectroscopy and H^+ Reactivity. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1608-1618.	3.3	3
31	Synthesis and Reactivity of Ampy-Based Ruthenium(II) Catalysts for Transfer Hydrogenation of Ketones. <i>Organometallics</i> , 2022, 41, 686-697.	2.3	3