# Isaac Garcia-Bosch

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5684161/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 31<br>papers | 2,739<br>citations | 304743<br>22<br>h-index | 434195<br>31<br>g-index |
| 33<br>all docs | 33<br>docs citations | 33<br>times ranked | 2992<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Synthesis and Reactivity of Ampy-Based Ruthenium(II) Catalysts for Transfer Hydrogenation of Ketones. Organometallics, 2022, 41, 686-697. | 2.3 | 3 |
| 2 | Synthetic Copper Complexes as Cu-Dependent Monooxygenase Model Systems and Catalysts for Dioxygen Reduction and Water Oxidation. , 2021, , 436-473. | | 3 |
| 3 | 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. | 3.3 | 3 |
| 4 | De Novo Design of a Self-Assembled Artificial Copper Peptide that Activates and Reduces Peroxide. ACS Catalysis, 2021, 11, 10267-10278. | 11.2 | 15 |
| 5 | 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. | 2.4 | 4 |
| 6 | Cu-promoted intramolecular hydroxylation of C H bonds using directing groups with varying denticity. Journal of Inorganic Biochemistry, 2021, 223, 111557. | 3.5 | 9 |
| 7 | 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. | 13.7 | 25 |
| 8 | Copper-Promoted Functionalization of Organic Molecules: from Biologically Relevant Cu/O<sub>2</sub> Model Systems to Organometallic Transformations. Chemical Reviews, 2019, 119, 2954-3031. | 47.7 | 201 |
| 9 | Tunable intramolecular multicenter H-bonding interactions in first-row metal complexes bearing bidentate redox-active ligands. Journal of Coordination Chemistry, 2019, 72, 1346-1357. | 2.2 | 3 |
| 10 | Directed Hydroxylation of sp<sup>2</sup> and sp<sup>3</sup> Câ€“H Bonds Using Stoichiometric Amounts of Cu and H<sub>2</sub>O<sub>2</sub>. Inorganic Chemistry, 2019, 58, 7584-7592. | 4.0 | 24 |
| 11 | 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. | 13.7 | 63 |
| 12 | Substrate and Lewis Acid Coordination Promote Oâ€“O Bond Cleavage of an Unreactive L<sub>2</sub>Cu<sup>II</sup><sub>2</sub>(O<sub>2</sub><sup>2â€“</sup>) Species to Form L<sub>2</sub>Cu<sup>III</sup><sub>2</sub>(O)<sub>2</sub> Cores with Enhanced Oxidative Reactivity. Journal of the American Chemical Society, 2017, 139, 3186-3195. | 13.7 | 50 |
| 13 | Copper-Catalyzed Oxidation of Alkanes under Mild Conditions. Synlett, 2017, 28, 1237-1243. | 1.8 | 12 |
| 14 | Decoding the Mechanism of Intramolecular Cu-Directed Hydroxylation of sp<sup>3</sup> Câ€“H Bonds. Journal of Organic Chemistry, 2017, 82, 7887-7904. | 3.2 | 61 |
| 15 | Copperâ€Catalyzed Oxidation of Alkanes with H<sub>2</sub>O<sub>2</sub> under a Fentonâ€like Regime. Angewandte Chemie - International Edition, 2016, 55, 12873-12876. | 13.8 | 98 |
| 16 | Copperâ€Catalyzed Oxidation of Alkanes with H<sub>2</sub>O<sub>2</sub> under a Fentonâ€like Regime. Angewandte Chemie, 2016, 128, 13065-13068. | 2.0 | 19 |
| 17 | Dioxygen Activation by a Macrocyclic Copper Complex Leads to a Cu<sub>2</sub>O<sub>2</sub> Core with Unexpected Structure and Reactivity. Chemistry - A European Journal, 2016, 22, 5133-5137. | 3.3 | 25 |
| 18 | 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. | 15.6 | 89 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Selective Orthoâ€Hydroxylationâ€“Defluorination of 2â€Fluorophenolates with a Bis(Î¼â€oxo)dicopper(III) Species. Angewandte Chemie - International Edition, 2014, 53, 9608-9612. | 13.8 | 34 |
| 20 | 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. | 13.7 | 125 |
| 21 | Asymmetric Epoxidation with H<sub>2</sub>O<sub>2</sub> by Manipulating the Electronic Properties of Non-heme Iron Catalysts. Journal of the American Chemical Society, 2013, 135, 14871-14878. | 13.7 | 216 |
| 22 | Highly Stereoselective Epoxidation with H<sub>2</sub>O<sub>2</sub> Catalyzed by Electron-Rich Aminopyridine Manganese Catalysts. Organic Letters, 2013, 15, 6158-6161. | 4.6 | 80 |
| 23 | Electronic Effects on Singleâ€Site Iron Catalysts for Water Oxidation. Chemistry - A European Journal, 2013, 19, 8042-8047. | 3.3 | 118 |
| 24 | 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. | 3.3 | 48 |
| 25 | Electrophilic Arene Hydroxylation and Phenol Oï£¿H Oxidations Performed by an Unsymmetric Î¼â€Î·<sup>1</sup>:Î·<sup>1</sup>â€O<sub>2</sub>â€Peroxo Dicopper(II) Complex. Chemistry - A European Journal, 2012, 18, 2113-2122. | 3.3 | 27 |
| 26 | Stereoselective Epoxidation of Alkenes with Hydrogen Peroxide using a Bipyrrolidineâ€Based Family of Manganese Complexes. Advanced Synthesis and Catalysis, 2012, 354, 65-70. | 4.3 | 72 |
| 27 | Efficient water oxidation catalysts based on readily available iron coordination complexes. Nature Chemistry, 2011, 3, 807-813. | 13.6 | 716 |
| 28 | O<sub>2</sub>â€…Activation and Selective Phenolate orthoâ€…Hydroxylation by an Unsymmetric Dicopper Î¼â€Î·<sup>1</sup>:Î·<sup>1</sup>â€Peroxido Complex. Angewandte Chemie - International Edition, 2010, 49, 2406-2409. | 13.8 | 104 |
| 29 | A Broad Substrateâ€Scope Method for Fast, Efficient and Selective Hydrogen Peroxideâ€Epoxidation. Advanced Synthesis and Catalysis, 2009, 351, 348-352. | 4.3 | 109 |
| 30 | Stereospecific Cï£¿H Oxidation with H<sub>2</sub>O<sub>2</sub> Catalyzed by a Chemically Robust Siteâ€Isolated Iron Catalyst. Angewandte Chemie - International Edition, 2009, 48, 5720-5723. | 13.8 | 254 |
| 31 | Tyrosinaseâ€Like Reactivity in a Cu<sup>III</sup><sub>2</sub>(Î¼â€O)<sub>2</sub> Species. Chemistry - A European Journal, 2008, 14, 3535-3538. | 3.3 | 73 |