

Joan Serrano-Plana

List of Publications by Citations

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19
papers

649
citations

13
h-index

19
g-index

19
ext. papers

774
ext. citations

11.6
avg, IF

4.08
L-index

#	Paper	IF	Citations
19	Trapping a Highly Reactive Nonheme Iron Intermediate That Oxygenates Strong C-H Bonds with Stereoretention. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15833-42	16.4	125
18	Structural and reactivity models for copper oxygenases: cooperative effects and novel reactivities. <i>Accounts of Chemical Research</i> , 2015 , 48, 2397-406	24.3	90
17	Artificial Metalloenzymes Based on the Biotin-Streptavidin Technology: Enzymatic Cascades and Directed Evolution. <i>Accounts of Chemical Research</i> , 2019 , 52, 585-595	24.3	84
16	Nonclassical Single-State Reactivity of an Oxo-Iron(IV) Complex Confined to Triplet Pathways. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8939-8949	16.4	62
15	Spectroscopic and DFT Characterization of a Highly Reactive Nonheme Fe-Oxo Intermediate. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3916-3928	16.4	61
14	Exceedingly Fast Oxygen Atom Transfer to Olefins via a Catalytically Competent Nonheme Iron Species. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6310-4	16.4	50
13	Acid-Triggered O-O Bond Heterolysis of a Nonheme Fe (OOH) Species for the Stereospecific Hydroxylation of Strong C-H Bonds. <i>Chemistry - A European Journal</i> , 2018 , 24, 5331-5340	4.8	33
12	Spectroscopic and Reactivity Comparisons between Nonheme Oxoiron(IV) and Oxoiron(V) Species Bearing the Same Ancillary Ligand. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15078-15091	16.4	29
11	Evidence of a Sole Oxygen Atom Transfer Agent in Asymmetric Epoxidations with Fe-pdp Catalysts. <i>ACS Catalysis</i> , 2017 , 7, 5046-5053	13.1	27
10	Selective ortho-hydroxylation-defluorination of 2-fluorophenolates with a bis(Ebxo)dicopper(III) species. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9608-12	16.4	23
9	Design, Preparation, and Characterization of Zn and Cu Metallopeptides Based On Tetradentate Aminopyridine Ligands Showing Enhanced DNA Cleavage Activity. <i>Inorganic Chemistry</i> , 2015 , 54, 10542-58	5.1	21
8	Exceedingly Fast Oxygen Atom Transfer to Olefins via a Catalytically Competent Nonheme Iron Species. <i>Angewandte Chemie</i> , 2016 , 128, 6418-6422	3.6	16
7	Enantioselective Hydroxylation of Benzylic C(sp) ³ -H Bonds by an Artificial Iron Hydroxylase Based on the Biotin-Streptavidin Technology. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10617-10623	16.4	16
6	Building complexity in O ₂ -binding copper complexes. Site-selective metalation and intermolecular O ₂ -binding at dicopper and heterometallic complexes derived from an unsymmetric ligand. <i>Inorganic Chemistry</i> , 2014 , 53, 12929-38	5.1	7
5	Selective Ortho-Hydroxylation/Defluorination of 2-Fluorophenolates with a Bis(Ebxo)dicopper(III) Species. <i>Angewandte Chemie</i> , 2014 , 126, 9762-9766	3.6	3
4	O-O Bond Activation in Cu- and Fe-Based Coordination Complexes: Breaking It Makes the Difference. <i>Advances in Inorganic Chemistry</i> , 2017 , 63-105	2.1	1
3	Double-walled design for tetrahedral cages. <i>Nature Chemistry</i> , 2021 , 13, 729	17.6	1

- 2 Preparation of a coordinatively saturated η^2 -peroxodicopper(II) compound. *Inorganica Chimica Acta*, **2018**, 481, 166-170 2.7 ○
- 1 Catalytic O activation with synthetic models of η^2 -ketoglutarate dependent oxygenases. *Chemical Communications*, **2020**, 56, 14369-14372 5.8 ○