

Laura Gomez

List of Publications by Citations

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39
papers

2,799
citations

25
h-index

42
g-index

42
ext. papers

3,096
ext. citations

8.8
avg, IF

4.75
L-index

#	Paper	IF	Citations
39	Efficient water oxidation catalysts based on readily available iron coordination complexes. <i>Nature Chemistry</i> , 2011 , 3, 807-13	17.6	652
38	Stereospecific C-H oxidation with H ₂ O ₂ catalyzed by a chemically robust site-isolated iron catalyst. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5720-3	16.4	234
37	Alkane hydroxylation by a nonheme iron catalyst that challenges the heme paradigm for oxygenase action. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15766-7	16.4	181
36	Nonheme Oxoiron(IV) Complexes of Pentadentate N5 Ligands: Spectroscopy, Electrochemistry, and Oxidative Reactivity. <i>Chemical Science</i> , 2013 , 4, 282-291	9.4	123
35	Light-Controlled Interconversion between a Self-Assembled Triangle and a Rhombicuboctahedral Sphere. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 445-9	16.4	123
34	A novel platform for modeling oxidative catalysis in non-heme iron oxygenases with unprecedented efficiency. <i>Chemistry - A European Journal</i> , 2008 , 14, 5727-31	4.8	121
33	Facile C-H bond cleavage via a proton-coupled electron transfer involving a C-H...Cu(II) interaction. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12299-306	16.4	119
32	Evidence for an oxygen evolving iron-oxo-cerium intermediate in iron-catalysed water oxidation. <i>Nature Communications</i> , 2015 , 6, 5865	17.4	117
31	Sponge-like molecular cage for purification of fullerenes. <i>Nature Communications</i> , 2014 , 5, 5557	17.4	116
30	Regioselective oxidation of nonactivated alkyl C-H groups using highly structured non-heme iron catalysts. <i>Journal of Organic Chemistry</i> , 2013 , 78, 1421-33	4.2	96
29	An iron catalyst for oxidation of alkyl C-H bonds showing enhanced selectivity for methylenic sites. <i>Chemistry - A European Journal</i> , 2013 , 19, 1908-13	4.8	86
28	Chiral manganese complexes with pinene appended tetradentate ligands as stereoselective epoxidation catalysts. <i>Dalton Transactions</i> , 2007 , 5539-45	4.3	74
27	Triggering the generation of an iron(IV)-oxo compound and its reactivity toward sulfides by Ru(II) photocatalysis. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4624-33	16.4	70
26	The Iron(II) Complex [Fe(CF ₃ SO ₃) ₂ (mcp)] as a Convenient, Readily Available Catalyst for the Selective Oxidation of Methylenic Sites in Alkanes. <i>Advanced Synthesis and Catalysis</i> , 2014 , 356, 818-830	5.6	67
25	Stereoselective Epoxidation of Alkenes with Hydrogen Peroxide using a Bipyrrolidine-Based Family of Manganese Complexes. <i>Advanced Synthesis and Catalysis</i> , 2012 , 354, 65-70	5.6	65
24	Stereospecific C-H Oxidation with H ₂ O ₂ Catalyzed by a Chemically Robust Site-Isolated Iron Catalyst. <i>Angewandte Chemie</i> , 2009 , 121, 5830-5833	3.6	53
23	Orthogonal Discrimination among Functional Groups in Ullmann-Type C-O and C-N Couplings. <i>Journal of Organic Chemistry</i> , 2016 , 81, 7315-25	4.2	48

22	Structural and kinetic study of reversible CO ₂ fixation by dicopper macrocyclic complexes. From intramolecular binding to self-assembly of molecular boxes. <i>Inorganic Chemistry</i> , 2007 , 46, 9098-110	5.1	48
21	Fast O ₂ binding at dicopper complexes containing Schiff-base dinucleating ligands. <i>Inorganic Chemistry</i> , 2007 , 46, 4997-5012	5.1	39
20	Identification and spectroscopic characterization of nonheme iron(III) hypochlorite intermediates. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4357-61	16.4	34
19	Spectroscopic Characterization and Reactivity of Triplet and Quintet Iron(IV) Oxo Complexes in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3637-41	16.4	33
18	C-H Bond Oxidation Catalyzed by an Imine-Based Iron Complex: A Mechanistic Insight. <i>Inorganic Chemistry</i> , 2015 , 54, 10141-52	5.1	29
17	Self-assembled tetragonal prismatic molecular cage highly selective for anionic guests. <i>Chemistry - A European Journal</i> , 2013 , 19, 1445-56	4.8	29
16	Reversible C Ejection from a Metallocage through the Redox-Dependent Binding of a Competitive Guest. <i>Chemistry - A European Journal</i> , 2017 , 23, 3016-3022	4.8	26
15	A Cu/Cu prototypical organometallic mechanism for the deactivation of an active pincer-like Cu catalyst in Ullmann-type couplings. <i>Chemical Communications</i> , 2017 , 53, 8786-8789	5.8	25
14	Supramolecular Fullerene Sponges as Catalytic Masks for Regioselective Functionalization of C ₆₀ . <i>Chem</i> , 2020 , 6, 169-186	16.2	22
13	Spectroscopic Characterization and Reactivity of Triplet and Quintet Iron(IV) Oxo Complexes in the Gas Phase. <i>Angewandte Chemie</i> , 2016 , 128, 3701-3705	3.6	20
12	Engineering Homochiral Metal-Organic Frameworks by Spatially Separating 1D Chiral Metal-Peptide Ladders: Tuning the Pore Size for Enantioselective Adsorption. <i>Chemistry - A European Journal</i> , 2015 , 21, 9964-9	4.8	19
11	A three-shell supramolecular complex enables the symmetry-mismatched chemo- and regioselective bis-functionalization of C. <i>Nature Chemistry</i> , 2021 , 13, 420-427	17.6	19
10	Self-assembly of nanoscopic molecular rectangles, extended helicates and porous-like materials based on macrocyclic dicopper building blocks under fine supramolecular control. <i>Chemical Communications</i> , 2007 , 4410-2	5.8	18
9	Isomeric molecular rectangles resulting from self-assembly of dicopper complexes of macrocyclic ligands. <i>Inorganic Chemistry</i> , 2006 , 45, 2501-8	5.1	18
8	Spectroscopic Analyses on Reaction Intermediates Formed during Chlorination of Alkanes with NaOCl Catalyzed by a Nickel Complex. <i>Inorganic Chemistry</i> , 2015 , 54, 10656-66	5.1	17
7	Alkane C-H Oxygenation Catalyzed by Transition Metal Complexes. <i>Catalysis By Metal Complexes</i> , 2012 , 143-228		14
6	Octahedral iron(IV)-tosylimido complexes exhibiting single electron-oxidation reactivity. <i>Chemical Science</i> , 2019 , 10, 9513-9529	9.4	13
5	Identification and Spectroscopic Characterization of Nonheme Iron(III) Hypochlorite Intermediates. <i>Angewandte Chemie</i> , 2015 , 127, 4431-4435	3.6	11

4	Nanosized trigonal prismatic and antiprismatic CuII coordination cages based on tricarboxylate linkers. <i>Dalton Transactions</i> , 2008 , 1679-82	4.3	10
3	Aerobic C-C and C-O bond formation reactions mediated by high-valent nickel species. <i>Chemical Science</i> , 2019 , 10, 10366-10372	9.4	9
2	Iron-Catalyzed Csp ³ H Oxidation with H ₂ O ₂ : Converting a Radical Reaction into a Selective and Efficient Synthetic Tool 157-174		1
1	Innenteilbild: Spectroscopic Characterization and Reactivity of Triplet and Quintet Iron(IV) Oxo Complexes in the Gas Phase (Angew. Chem. 11/2016). <i>Angewandte Chemie</i> , 2016 , 128, 3578-3578	3.6	