

JosÃ© A Castro-Osma

List of Publications by Year in descending order

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56
papers

2,147
citations

249298

26
h-index

263392

45
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all docs

60
docs citations

60
times ranked

1857
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of High Molecular Weight Stereo-Di-Block Copolymers Driven by a Co-Initiator Free Catalyst. <i>Polymers</i> , 2022, 14, 232.	2.0	3
2	Synthesis of Nonisocyanate Poly(hydroxy)urethanes from Bis(cyclic carbonates) and Polyamines. <i>Polymers</i> , 2022, 14, 2719.	2.0	6
3	Zinc-Catalyzed Hydroalkoxylation/Cyclization of Alkynyl Alcohols. <i>Inorganic Chemistry</i> , 2021, 60, 5322-5332.	1.9	5
4	Fast Addition of σ -Block Organometallic Reagents to CO ₂ -Derived Cyclic Carbonates at Room Temperature, Under Air, and in 2-Methyltetrahydrofuran. <i>ChemSusChem</i> , 2021, 14, 2084-2092.	3.6	17
5	Ring-Opening Copolymerization of Cyclohexene Oxide and Cyclic Anhydrides Catalyzed by Bimetallic Scorpionate Zinc Catalysts. <i>Polymers</i> , 2021, 13, 1651.	2.0	5
6	Heteroscorpionate Rare-Earth Catalysts for the Low-Pressure Coupling Reaction of CO ₂ and Cyclohexene Oxide. <i>Organometallics</i> , 2021, 40, 1503-1514.	1.1	11
7	The Effect of WS ₂ Nanosheets on the Non-Isothermal Cold- and Melt-Crystallization Kinetics of Poly(L-lactic acid) Nanocomposites. <i>Polymers</i> , 2021, 13, 2214.	2.0	5
8	Polyester Polymeric Nanoparticles as Platforms in the Development of Novel Nanomedicines for Cancer Treatment. <i>Cancers</i> , 2021, 13, 3387.	1.7	24
9	Tuning the Cytotoxicity of Bis-Phosphino-Amines Ruthenium(II) Para-Cymene Complexes for Clinical Development in Breast Cancer. <i>Pharmaceutics</i> , 2021, 13, 1559.	2.0	3
10	Efficient Production of Poly(Cyclohexene Carbonate) via ROCOP of Cyclohexene Oxide and CO ₂ Mediated by NNO-Scorpionate Zinc Complexes. <i>Polymers</i> , 2020, 12, 2148.	2.0	8
11	Bimetallic Zinc Catalysts for Ring-Opening Copolymerization Processes. <i>Inorganic Chemistry</i> , 2020, 59, 8412-8423.	1.9	21
12	Screening and Preliminary Biochemical and Biological Studies of [RuCl(<i>p</i> -cymene)(<i>N</i> , <i>N</i> -bis(diphenylphosphino)-isopropylamine)][BF ₄] in Breast Cancer Models. <i>ACS Omega</i> , 2019, 4, 13005-13014.	1.6	7
13	Efficient CO ₂ fixation into cyclic carbonates catalyzed by NNO-scorpionate zinc complexes. <i>Dalton Transactions</i> , 2019, 48, 10733-10742.	1.6	25
14	Synthesis of helical aluminium catalysts for cyclic carbonate formation. <i>Dalton Transactions</i> , 2019, 48, 4218-4227.	1.6	33
15	Influence of the Counterion on the Synthesis of Cyclic Carbonates Catalyzed by Bifunctional Aluminum Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 3396-3408.	1.9	46
16	Synthesis of Bio-Derived Cyclic Carbonates from Renewable Resources. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 20126-20138.	3.2	48
17	Trastuzumab-Targeted Biodegradable Nanoparticles for Enhanced Delivery of Dasatinib in HER2+ Metastatic Breast Cancer. <i>Nanomaterials</i> , 2019, 9, 1793.	1.9	40
18	Study of the Coordination Modes of Hybrid NNCp Cyclopentadienyl/Scorpionate Ligands in Ir Compounds. <i>Inorganic Chemistry</i> , 2019, 58, 900-908.	1.9	4

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19	Bifunctional Aluminum Catalysts for the Chemical Fixation of Carbon Dioxide into Cyclic Carbonates. ACS Sustainable Chemistry and Engineering, 2018, 6, 5322-5332.	3.2	82
20	Amidinate Aluminium Complexes as Catalysts for Carbon Dioxide Fixation into Cyclic Carbonates. ChemCatChem, 2018, 10, 2271-2277.	1.8	62
21	Development of hydroxy-containing imidazole organocatalysts for CO ₂ fixation into cyclic carbonates. Catalysis Science and Technology, 2018, 8, 1981-1987.	2.1	78
22	Alternating Copolymerization of Epoxides and Anhydrides Catalyzed by Aluminum Complexes. ACS Omega, 2018, 3, 17581-17589.	1.6	21
23	Versatile organoaluminium catalysts based on heteroscorpionate ligands for the preparation of polyesters. Dalton Transactions, 2018, 47, 7471-7479.	1.6	21
24	Ring-opening polymerization and copolymerization of cyclic esters catalyzed by amidinate aluminum complexes. Journal of Polymer Science Part A, 2017, 55, 2397-2407.	2.5	32
25	An Efficient and Versatile Lanthanum Heteroscorpionate Catalyst for Carbon Dioxide Fixation into Cyclic Carbonates. ChemSusChem, 2017, 10, 2886-2890.	3.6	90
26	Aminophosphine ligands as a privileged platform for development of antitumoral ruthenium(<i>η</i> -arene) complexes. Dalton Transactions, 2017, 46, 16113-16125.	1.6	27
27	One-Component Aluminum(heteroscorpionate) Catalysts for the Formation of Cyclic Carbonates from Epoxides and Carbon Dioxide. ChemSusChem, 2017, 10, 1175-1185.	3.6	68
28	Synthesis of Chiral Cyclic Carbonates via Kinetic Resolution of Racemic Epoxides and Carbon Dioxide. Symmetry, 2016, 8, 4.	1.1	25
29	An Efficient and Tunable Route to Bis(1,2,3-triazol-4-yl)methane-Based Nitrogen Compounds. European Journal of Organic Chemistry, 2016, 2016, 682-687.	1.2	13
30	Importance of Micropore-Mesopore Interfaces in Carbon Dioxide Capture by Carbon-Based Materials. Angewandte Chemie - International Edition, 2016, 55, 9173-9177.	7.2	66
31	Synthesis of Oxazolidinones from Epoxides and Isocyanates Catalysed by Aluminium Heteroscorpionate Complexes. ChemCatChem, 2016, 8, 2100-2108.	1.8	36
32	Cr(salophen) Complex Catalyzed Cyclic Carbonate Synthesis at Ambient Temperature And Pressure. ACS Catalysis, 2016, 6, 5012-5025.	5.5	261
33	Synthesis of Cyclic Carbonates Catalysed by Chromium and Aluminium Salphen Complexes. Chemistry - A European Journal, 2016, 22, 2100-2107.	1.7	116
34	Heteroscorpionate Rare-Earth Catalysts for the Hydroalkoxylation/Cyclization of Alkynyl Alcohols. Organometallics, 2016, 35, 1802-1812.	1.1	21
35	Ring-opening copolymerisation of cyclohexene oxide and carbon dioxide catalysed by scorpionate zinc complexes. Polymer Chemistry, 2016, 7, 6475-6484.	1.9	26
36	Highlights from the Faraday Discussion on Carbon Dioxide Utilisation, Sheffield, UK, September 2015. Chemical Communications, 2016, 52, 232-238.	2.2	0

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37	Synthesis of Cyclic Carbonates Catalysed by Aluminium Heteroscorpionate Complexes. <i>Chemistry - A European Journal</i> , 2015, 21, 9850-9862.	1.7	104
38	Atom efficiency in small molecule and macromolecule synthesis: general discussion. <i>Faraday Discussions</i> , 2015, 183, 97-123.	1.6	1
39	New catalysts for carboxylation of propylene glycol to propylene carbonate via high-throughput screening. <i>Faraday Discussions</i> , 2015, 183, 19-30.	1.6	9
40	Synthesis and structural characterization of amido heteroscorpionate rare-earth metal complexes and hydroamination of aminoalkenes. <i>New Journal of Chemistry</i> , 2015, 39, 7672-7681.	1.4	16
41	Quinine catalysed asymmetric Michael additions in a sustainable solvent. <i>RSC Advances</i> , 2015, 5, 3678-3685.	1.7	23
42	Catalytic behaviour in the ring-opening polymerisation of organoaluminiums supported by bulky heteroscorpionate ligands. <i>Dalton Transactions</i> , 2015, 44, 12388-12400.	1.6	35
43	Development of a Halide-Free Aluminium-Based Catalyst for the Synthesis of Cyclic Carbonates from Epoxides and Carbon Dioxide. <i>Chemistry - A European Journal</i> , 2014, 20, 15005-15008.	1.7	81
44	Synthesis and structural characterization of amido scorpionate rare earth metals complexes. <i>Dalton Transactions</i> , 2014, 43, 9586.	1.6	15
45	Synthesis of cyclic carbonates catalysed by aluminium heteroscorpionate complexes. <i>Catalysis Science and Technology</i> , 2014, 4, 1674-1684.	2.1	87
46	Synthesis of Cyclic Carbonates from Polyols and Carbon Dioxide, Urea or Carbon Monoxide. <i>Current Green Chemistry</i> , 2014, 1, 257-272.	0.7	10
47	Ring-Opening (ROP) versus Ring-Expansion (REP) Polymerization of ϵ -Caprolactone To Give Linear or Cyclic Polycaprolactones. <i>Macromolecules</i> , 2013, 46, 6388-6394.	2.2	75
48	Heteroscorpionate aluminium complexes as chiral building blocks to engineer helical architectures. <i>Dalton Transactions</i> , 2013, 42, 14240.	1.6	13
49	Synthesis, structural characterization and catalytic evaluation of the ring-opening polymerization of discrete five-coordinate alkyl aluminium complexes. <i>Dalton Transactions</i> , 2013, 42, 9325.	1.6	50
50	New Highly Active Heteroscorpionate-Containing Lutetium Catalysts for the Hydroamination of Aminoalkenes: Isolation and Structural Characterization of a Dipyrrolidinide-Lutetium Complex. <i>Organometallics</i> , 2012, 31, 2244-2255.	1.1	39
51	Synthesis of cyclic carbonates using monometallic, and helical bimetallic, aluminium complexes. <i>Catalysis Science and Technology</i> , 2012, 2, 1021.	2.1	72
52	Heteroscorpionate rare-earth initiators for the controlled ring-opening polymerization of cyclic esters. <i>Dalton Transactions</i> , 2011, 40, 4687.	1.6	37
53	Neutral and Cationic Aluminum Complexes Supported by Acetamidate and Thioacetamidate Heteroscorpionate Ligands as Initiators for Ring-Opening Polymerization of Cyclic Esters. <i>Organometallics</i> , 2011, 30, 1507-1522.	1.1	77
54	Straightforward Generation of Helical Chirality Driven by a Versatile Heteroscorpionate Ligand: Self-Assembly of a Metal Helicate by Using CH π - π Interactions. <i>Chemistry - A European Journal</i> , 2010, 16, 8615-8619.	1.7	31

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55	Multiresidue determination of organochlorines in fish oil by GC-MS: A new strategy in the sample preparation. <i>Talanta</i> , 2010, 81, 887-893.	2.9	16
56	Closing the loop in the synthesis of heteroscorpionate-based aluminium helicates: catalytic studies for cyclic carbonate synthesis. <i>Dalton Transactions</i> , 0, , .	1.6	0