AgustÃ-n Lara SÃ¡nchez

List of Publications by Year
in descending order

111 papers	4,305 citations	76294 40 h-index	128225 60 g-index
115 all docs	115 docs citations	115 times ranked	2283 citing authors

#	Article	IF	Citations
1	Heteroscorpionate ligands based on bis(pyrazol-1-yl)methane: design and coordination chemistry. Dalton Transactions, 2004, , 1499-1510.	1.6	207
2	Metal complexes with heteroscorpionate ligands based on the bis(pyrazol-1-yl)methane moiety: Catalytic chemistry. Coordination Chemistry Reviews, 2013, 257, 1806-1868.	9.5	155
3	[H2N{B(C6F5)3}2]-:Â A New, Remarkably Stable Diborate Anion for Metallocene Polymerization Catalysts. Organometallics, 2002, 21, 451-453.	1.1	109
4	Syntheses and crystal structures of lithium and niobium complexes containing a new type of monoanionic â€œscorpionateâ€•ligandâ€Šâ€. Journal of the Chemical Society Dalton Transactions, 1999, , 3537-3539.	1.1	107
5	Well-Defined Alkyl Heteroscorpionate Magnesium Complexes as Excellent Initiators for the ROP of Cyclic Esters. Organometallics, 2007, 26, 6403-6411.	1.1	107
6	Synthesis of Cyclic Carbonates Catalysed by Aluminium Heteroscorpionate Complexes. Chemistry - A European Journal, 2015, 21, 9850-9862.	1.7	104
7	Stereoselective Production of Poly(rac-lactide) by ROP with Highly Efficient Bulky Heteroscorpionate Alkylmagnesium Initiators. Organometallics, 2011, 30, 2775-2789.	1.1	92
8	An Efficient and Versatile Lanthanum Heteroscorpionate Catalyst for Carbon Dioxide Fixation into Cyclic Carbonates. ChemSusChem, 2017, 10, 2886-2890.	3.6	90
9	Synthesis of cyclic carbonates catalysed by aluminium heteroscorpionate complexes. Catalysis Science and Technology, 2014, 4, 1674-1684.	2.1	87
10	Ringâ€Opening Polymerization of Cyclic Esters by an Enantiopure Heteroscorpionate Rare Earth Initiator. Angewandte Chemie - International Edition, 2009, 48, 2176-2179.	7.2	83
11	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
12	Hybrid Scorpionate/Cyclopentadienyl Magnesium and Zinc Complexes: Synthesis, Coordination Chemistry, and Ring-Opening Polymerization Studies on Cyclic Esters. Inorganic Chemistry, 2010, 49, 2859-2871.	1.9	80
13	Development of hydroxy-containing imidazole organocatalysts for CO₂ fixation into cyclic carbonates. Catalysis Science and Technology, 2018, 8, 1981-1987.	2.1	78
14	Neutral and Cationic Aluminum Complexes Supported by Acetamidate and Thioacetamidate Heteroscorpionate Ligands as Initiators for Ring-Opening Polymerization of Cyclic Esters. Organometallics, 2011, 30, 1507-1522.	1.1	77
15	Preparation of New Monoanionic â€œScorpionateâ€•Ligands:â€‰ Synthesis and Structural Characterization of Titanium(IV) Complexes Bearing This Class of Ligand. Inorganic Chemistry, 2002, 41, 5193-5202.	1.9	75
16	Ring-Opening (ROP) versus Ring-Expansion (REP) Polymerization of Îµ-Caprolactone To Give Linear or Cyclic Polycaprolactones. Macromolecules, 2013, 46, 6388-6394.	2.2	75
17	Discrete Heteroscorpionate Lithium and Zinc Alkyl Complexes. Synthesis, Structural Studies, and ROP of Cyclic Esters. Organometallics, 2008, 27, 1310-1321.	1.1	72
18	Synthesis of cyclic carbonates using monometallic, and helical bimetallic, aluminium complexes. Catalysis Science and Technology, 2012, 2, 1021.	2.1	72

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19	Oneâ€Component Aluminum(heteroscorpionate) Catalysts for the Formation of Cyclic Carbonates from Epoxides and Carbon Dioxide. ChemSusChem, 2017, 10, 1175-1185.	3.6	68
20	Stereoselective ROP of rac-Lactide Mediated by Enantiopure NNO-Scorpionate Zinc Initiators. Organometallics, 2014, 33, 1859-1866.	1.1	66
21	Polymerization of Ethylene by the Electrophilic Heteroscorpionate-Containing Complexes [TiCl3(bdmpza)] and [TiCl2(bdmpza){O(CH2)4Cl}] (bdmpza = Bis(3,5-dimethylpyrazol-1-yl)acetate). Organometallics, 2001, 20, 2428-2430.	1.1	64
22	An Unprecedented Hybrid Scorpionate/Cyclopentadienyl Ligand. Journal of the American Chemical Society, 2004, 126, 1330-1331.	6.6	63
23	Recent Advances in the Design and Coordination Chemistry of Heteroscorpionate Ligands Bearing Stereogenic Centres. European Journal of Inorganic Chemistry, 2008, 2008, 5309-5326.	1.0	63
24	Amidinate Aluminium Complexes as Catalysts for Carbon Dioxide Fixation into Cyclic Carbonates. ChemCatChem, 2018, 10, 2271-2277.	1.8	62
25	Scandium and Yttrium Complexes Supported by NNCp Heteroscorpionate Ligands: Synthesis, Structure, and Polymerization of Ïµ-Caprolactone. Organometallics, 2008, 27, 976-983.	1.1	61
26	Chiral N,N,O-Scorpionate Zinc Alkyls as Effective and Stereoselective Initiators for the Living ROP of Lactides. Organometallics, 2012, 31, 4191-4202.	1.1	58
27	New Complexes of Zirconium(IV) and Hafnium(IV) with Heteroscorpionate Ligands and the Hydrolysis of Such Complexes To Give a Zirconium Cluster#. Inorganic Chemistry, 2004, 43, 1350-1358.	1.9	57
28	Efficient Synthesis of an Unprecedented Enantiopure Hybrid Scorpionate/Cyclopentadienyl by Diastereoselective Nucleophilic Addition to a Fulvene. Organometallics, 2013, 32, 3437-3440.	1.1	57
29	A new type of monoanionic â€œscorpionateâ€•ligand. Synthesis, spectroscopic characterisation and dynamic behaviour of some niobium(III) complexes. Dalton Transactions RSC, 2000, , 2367-2374.	2.3	55
30	Heteroscorpionate Magnesium Alkyls Bearing Unprecedented Apical Ïƒ-C(sp³)â€“Mg Bonds: Heteroselective Ring-Opening Polymerization of rac-Lactide. Inorganic Chemistry, 2013, 52, 12691-12701.	1.9	55
31	Synthesis of Zirconium(IV) Monocyclopentadienylâ^'Aryloxy Complexes and Their Use in Catalytic Ethylene Polymerization. X-ray Structure of (Î·5-C5Me5)Zr{2,6-OC6H3(CH3)2}3. Organometallics, 2000, 19, 2837-2843.	1.1	52
32	Lithium, Titanium, and Zirconium Complexes with Novel Amidinate Scorpionate Ligands. Inorganic Chemistry, 2007, 46, 1760-1770.	1.9	51
33	Synthesis, structural characterization and catalytic evaluation of the ring-opening polymerization of discrete five-coordinate alkyl aluminium complexes. Dalton Transactions, 2013, 42, 9325.	1.6	50
34	Synthesis of Bio-Derived Cyclic Carbonates from Renewable Resources. ACS Sustainable Chemistry and Engineering, 2019, 7, 20126-20138.	3.2	48
35	New Racemic and Single Enantiopure Hybrid Scorpionate/Cyclopentadienyl Magnesium and Zinc Initiators for the Stereoselective ROP of Lactides. Organometallics, 2015, 34, 3196-3208.	1.1	46
36	Influence of the Counterion on the Synthesis of Cyclic Carbonates Catalyzed by Bifunctional Aluminum Complexes. Inorganic Chemistry, 2019, 58, 3396-3408.	1.9	46

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37	PEI-coated PLA nanoparticles to enhance the antimicrobial activity of carvacrol. Food Chemistry, 2020, 328, 127131.	4.2	46
38	On the Search for NNO-Donor Enantiopure Scorpionate Ligands and Their Coordination to Group 4 Metals. Inorganic Chemistry, 2009, 48, 5540-5554.	1.9	42
39	First Complexes of Scandium and Yttrium with NNO and NNS Heteroscorpionate Ligands. Inorganic Chemistry, 2005, 44, 5336-5344.	1.9	41
40	Copolymerization of Cyclic Esters Controlled by Chiral NNO-Scorpionate Zinc Initiators. Organometallics, 2016, 35, 189-197.	1.1	41
41	Controlled Delivery of BET-PROTACs: In Vitro Evaluation of MZ1-Loaded Polymeric Antibody Conjugated Nanoparticles in Breast Cancer. Pharmaceutics, 2020, 12, 986.	2.0	41
42	Synthesis, structure and catalytic activity of new iminophenolato complexes of scandium and yttrium. Journal of Organometallic Chemistry, 2002, 663, 63-69.	0.8	40
43	Trastuzumab-Targeted Biodegradable Nanoparticles for Enhanced Delivery of Dasatinib in HER2+ Metastasic Breast Cancer. Nanomaterials, 2019, 9, 1793.	1.9	40
44	Design of new heteroscorpionate ligands and their coordinative ability toward Group 4 transition metals; an efficient synthetic route to obtain enantiopure ligands. Dalton Transactions, 2006, , 4359-4370.	1.6	39
45	New Highly Active Heteroscorpionate-Containing Lutetium Catalysts for the Hydroamination of Aminoalkenes: Isolation and Structural Characterization of a Dipyrrolidinideâ€“Lutetium Complex. Organometallics, 2012, 31, 2244-2255.	1.1	39
46	Expanding Heteroscorpionates. Facile Synthesis of New Hybrid Scorpionate/Cyclopentadienyl Ligands and Their Lithium and Group 4 Metal Compounds:â€‰ A Combined Experimental and Density Functional Theory Study. Organometallics, 2007, 26, 4310-4320.	1.1	38
47	Versatile Scorpionates and New Developments in the Denticity Changes of NNCp Hybrid Scorpionate/Cyclopentadienyl Ligands in Sc and Y Compounds: From Î²¹-NÎ·⁵-Cp to Î²²-NNÎ·⁵-Cp. Inorganic Chemistry, 2008, 47, 4996-5005.	1.9	38
48	Heteroscorpionate rare-earth initiators for the controlled ring-opening polymerization of cyclic esters. Dalton Transactions, 2011, 40, 4687.	1.6	37
49	New achiral and chiral NNE heteroscorpionate ligands. Synthesis of homoleptic lithium complexes as well as halide and alkyl scandium and yttrium complexes. Dalton Transactions, 2010, 39, 930-940.	1.6	36
50	Synthesis of Oxazolidinones from Epoxides and Isocyanates Catalysed by Aluminium Heteroscorpionate Complexes. ChemCatChem, 2016, 8, 2100-2108.	1.8	36
51	New functionalized bis(pyrazol-1-yl)methane ligands. Synthesis, spectroscopic characterization of early and late transition metal complexes containing a functionalized N,N or P,P-chelate bis(5-diphenylphosphinopyrazol-1-yl)methane ligand. Journal of the Chemical Society Dalton Transactions, 1998, , 3737-3744.	1.1	35
52	Catalytic behaviour in the ring-opening polymerisation of organoaluminiums supported by bulky heteroscorpionate ligands. Dalton Transactions, 2015, 44, 12388-12400.	1.6	35
53	Synthesis, structures and ring-opening polymerization studies of new zinc chloride and amide complexes supported by amidinate heteroscorpionate ligands. Dalton Transactions, 2009, , 8054.	1.6	34
54	Synthesis of helical aluminium catalysts for cyclic carbonate formation. Dalton Transactions, 2019, 48, 4218-4227.	1.6	33

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55	Niobium complexes containing a new chiral heteroscorpionate ligand and the reactivity of such a complex with O2 to give the first gem-diolate niobium complex. Dalton Transactions, 2003, , 1614-1619.	1.6	32
56	Ringâ€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
57	Straightforward Generation of Helical Chirality Driven by a Versatile Heteroscorpionate Ligand: Selfâ€Assembly of a Metal Helicate by Using CHï£¿Ï€ Interactions. Chemistry - A European Journal, 2010, 16, 8615-8619.	1.7	31
58	New Complexes of Niobium(V) and Tantalum(V) with Monoanionic NNO Heteroscorpionate Ligands. European Journal of Inorganic Chemistry, 2004, 2004, 260-266.	1.0	30
59	Studies on Multinuclear Magnesium tert-Butyl Heteroscorpionates: Synthesis, Coordination Ability, and Heteroselective Ring-Opening Polymerization of rac-Lactide. Organometallics, 2017, 36, 884-897.	1.1	30
60	A Simple and Efficient Synthetic Route to Enantiopure Scorpionate Ligands. European Journal of Inorganic Chemistry, 2006, 2006, 707-710.	1.0	27
61	Highly Diastereoselective Nucleophilic Addition to Myrtenal. Straightforward Synthesis of an Enantiopure Scorpionate Ligand. Inorganic Chemistry, 2007, 46, 8475-8477.	1.9	27
62	Bimetallic scorpionate-based helical organoaluminum complexes for efficient carbon dioxide fixation into a variety of cyclic carbonates. Catalysis Science and Technology, 2020, 10, 3265-3278.	2.1	27
63	Enantiopure N,N,O-scorpionate zinc amide and chloride complexes as efficient initiators for the heteroselective ROP of cyclic esters. Dalton Transactions, 2014, 43, 17090-17100.	1.6	26
64	Ring-opening copolymerisation of cyclohexene oxide and carbon dioxide catalysed by scorpionate zinc complexes. Polymer Chemistry, 2016, 7, 6475-6484.	1.9	26
65	Efficient CO₂ fixation into cyclic carbonates catalyzed by NNO-scorpionate zinc complexes. Dalton Transactions, 2019, 48, 10733-10742.	1.6	25
66	Poly(Cyclohexene Phthalate) Nanoparticles for Controlled Dasatinib Delivery in Breast Cancer Therapy. Nanomaterials, 2019, 9, 1208.	1.9	24
67	Synthesis and Characterization of New Niobium Hydridotris(3,5-dimethylpyrazol-1-yl)borato Complexes. Organometallics, 1998, 17, 3015-3019.	1.1	21
68	Nitric oxide binding and photodelivery based on ruthenium(ii) complexes of 4-arylazo-3,5-dimethylpyrazole. Dalton Transactions, 2008, , 3559.	1.6	21
69	Heteroscorpionate Rare-Earth Catalysts for the Hydroalkoxylation/Cyclization of Alkynyl Alcohols. Organometallics, 2016, 35, 1802-1812.	1.1	21
70	Alternating Copolymerization of Epoxides and Anhydrides Catalyzed by Aluminum Complexes. ACS Omega, 2018, 3, 17581-17589.	1.6	21
71	Versatile organoaluminium catalysts based on heteroscorpionate ligands for the preparation of polyesters. Dalton Transactions, 2018, 47, 7471-7479.	1.6	21
72	Bimetallic Zinc Catalysts for Ring-Opening Copolymerization Processes. Inorganic Chemistry, 2020, 59, 8412-8423.	1.9	21

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73	Direct Synthesis of NNN-Donor Enantiopure Scorpionate Ligands by an Efficient Diastereoselective Nucleophilic Addition to Imines. Inorganic Chemistry, 2011, 50, 1826-1839.	1.9	20
74	Mono- and binuclear chiral N,N,O-scorpionate zinc alkyls as efficient initiators for the ROP of rac-lactide. Dalton Transactions, 2017, 46, 15107-15117.	1.6	20
75	Assessment of doxorubicin delivery devices based on tailored bare polycaprolactone against glioblastoma. International Journal of Pharmaceutics, 2019, 558, 110-119.	2.6	19
76	Fast Addition of sâ€Block Organometallic Reagents to CO₂â€Derived Cyclic Carbonates at Room Temperature, Under Air, and in 2â€Methyltetrahydrofuran. ChemSusChem, 2021, 14, 2084-2092.	3.6	17
77	Titanium and niobium imido complexes stabilized by heteroscorpionate ligands. Dalton Transactions, 2004, , 3963-3969.	1.6	16
78	Synthesis and structural characterization of amido heteroscorpionate rare-earth metal complexes and hydroamination of aminoalkenes. New Journal of Chemistry, 2015, 39, 7672-7681.	1.4	16
79	Synthesis and structural characterization of amido scorpionate rare earth metals complexes. Dalton Transactions, 2014, 43, 9586.	1.6	15
80	Organo-Aluminum and Zinc Acetamidinates: Preparation, Coordination Ability, and Ring-Opening Polymerization Processes of Cyclic Esters. Inorganic Chemistry, 2018, 57, 12132-12142.	1.9	15
81	Ruthenium Complexes of the Scorpionate Ligand Bis(3,5-dimethylpyrazol-1-yl)dithioacetate and the Effect of Nitric Oxide Coordination. European Journal of Inorganic Chemistry, 2005, 2005, 3135-3140.	1.0	14
82	Valorization of agricultural waste and CO2 into bioderived cyclic carbonates. Journal of Environmental Chemical Engineering, 2021, 9, 105464.	3.3	14
83	Heteroscorpionate aluminium complexes as chiral building blocks to engineer helical architectures. Dalton Transactions, 2013, 42, 14240.	1.6	13
84	An Efficient and Tunable Route to Bis(1,2,3â€triazolâ€1â€yl)methaneâ€Based Nitrogen Compounds. European Journal of Organic Chemistry, 2016, 2016, 682-687.	1.2	13
85	Synthesis and Dynamic Behavior of Chiral NNOâ€Scorpionate Zinc Initiators for the Ringâ€Opening Polymerization of Cyclic Esters. European Journal of Inorganic Chemistry, 2016, 2016, 2562-2572.	1.0	13
86	NNC-Scorpionate Zirconium-Based Bicomponent Systems for the Efficient CO₂ Fixation into a Variety of Cyclic Carbonates. Inorganic Chemistry, 2020, 59, 12422-12430.	1.9	13
87	Phosphorus ylide-containing niobium complexes: preparation and characterization of homo- and heteronuclear compounds with an Î± -keto ylide ligand. Journal of Organometallic Chemistry, 1998, 570, 97-105.	0.8	12
88	Efficient Synthesis of Cyclic Carbonates from Unsaturated Acids and Carbon Dioxide and their Application in the Synthesis of Biobased Polyurethanes. ChemPlusChem, 2021, 86, 460-468.	1.3	11
89	Heteroscorpionate Rare-Earth Catalysts for the Low-Pressure Coupling Reaction of CO₂ and Cyclohexene Oxide. Organometallics, 2021, 40, 1503-1514.	1.1	11
90	Hybrid scorpionate/cyclopentadienyl titanium and zirconium complexes with alkoxide and imido ligands. Inorganica Chimica Acta, 2009, 362, 2909-2914.	1.2	10

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91	Highly thermally stable and robust enantiopure zirconium NNN-scorpionates for the controlled ring-opening polymerization of rac-lactide. Dalton Transactions, 2017, 46, 6654-6662.	1.6	10
92	Synthesis of an enantiopure scorpionate ligand by a nucleophilic addition to a ketenimine and a zinc initiator for the isoselective ROP of rac-lactide. Chemical Communications, 2019, 55, 8947-8950.	2.2	9
93	Phosphorus ylide niobium complexes; synthesis and characterization of the first Î±-keto ylide complexes, [{NbCl3(ylide-O,N)}2] and [NbCl3(ylide-O,N) (RCî—¼CRâ€²)] (ylide =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 Td [NbCl3(NOSC4H2CHPPh3-O,N) (PhCî—¼CPr) (Ph = phenyl, Pr = propyl). Journal of Organometallic Chemistry, 1997, 542, 291-294.	0.8	8
94	Synthesis of new heteroscorpionate iridium(<scp>i</scp>) and iridium(<scp>iii</scp>) complexes. Dalton Transactions, 2015, 44, 6987-6998.	1.6	8
95	Efficient Production of Poly(Cyclohexene Carbonate) via ROCOP of Cyclohexene Oxide and CO2 Mediated by NNO-Scorpionate Zinc Complexes. Polymers, 2020, 12, 2148.	2.0	8
96	Screening and Preliminary Biochemical and Biological Studies of [RuCl(p-cymene)(N,N-bis(diphenylphosphino)-isopropylamine)][BF₄] in Breast Cancer Models. ACS Omega, 2019, 4, 13005-13014.	1.6	7
97	Carbonation of epoxidized soybean oil in supercritical CO2 assisted by imidazole-based organocatalysts. Journal of CO2 Utilization, 2022, 61, 102060.	3.3	6
98	Synthesis of Nonisocyanate Poly(hydroxy)urethanes from Bis(cyclic carbonates) and Polyamines. Polymers, 2022, 14, 2719.	2.0	6
99	Zinc-Catalyzed Hydroalkoxylation/Cyclization of Alkynyl Alcohols. Inorganic Chemistry, 2021, 60, 5322-5332.	1.9	5
100	Ring-Opening Copolymerization of Cyclohexene Oxide and Cyclic Anhydrides Catalyzed by Bimetallic Scorpionate Zinc Catalysts. Polymers, 2021, 13, 1651.	2.0	5
101	Efficient Bulky Organo-Zinc Scorpionates for the Stereoselective Production of Poly(rac-lactide)s. Polymers, 2021, 13, 2356.	2.0	5
102	Unprecedented Formation of the First Alkalineâ€Earthâ€Metal Complex Bearing an Asymmetrical gemâ€Dithiolato Heteroscorpionato Ligand. European Journal of Inorganic Chemistry, 2014, 2014, 1922-1928.	1.0	4
103	Study of the Coordination Modes of Hybrid NNCp Cyclopentadienyl/Scorpionate Ligands in Ir Compounds. Inorganic Chemistry, 2019, 58, 900-908.	1.9	4
104	Carbon dioxide fixation into cyclic carbonates at room temperature catalyzed by heteroscorpionate aluminum complexes. Green Chemical Engineering, 2022, 3, 280-287.	3.3	4
105	Tuning the Cytotoxicity of Bis-Phosphino-Amines Ruthenium(II) Para-Cymene Complexes for Clinical Development in Breast Cancer. Pharmaceutics, 2021, 13, 1559.	2.0	3
106	Synthesis of High Molecular Weight Stereo-Di-Block Copolymers Driven by a Co-Initiator Free Catalyst. Polymers, 2022, 14, 232.	2.0	3
107	[4â€(2â€Hydroxyphenyl)imidazolium Salts as Organocatalysts for Cycloaddition of Isocyanates and Epoxides to Yield Oxazolidinâ€2â€ones. ChemistrySelect, 2022, 7, .	0.7	3
108	Synthesis and spectroscopic characterization of Î±-keto ylide-containing Group 4 metal complexes. The X-ray molecular structure of [Cp*ZrCl3(2-TCMP)], Cp*=Î·5-C5Me5, 2-TCMP=[{2-thiazolylcarbonyl}methylene]triphenylphosphorane. Journal of Organometallic Chemistry, 2001, 629, 68-76.	0.8	1

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109	Heteroscorpionate Ligands Based on Bis(pyrazol-1-yl)methane: Design and Coordination Chemistry. ChemInform, 2004, 35, no.	0.1	0
110	Homogeneous aluminum and iron catalysts for the synthesis of organic molecules and biodegradable polymers. , 2021, , 3-43.		0
111	Closing the loop in the synthesis of heteroscorpionate-based aluminium helicates: catalytic studies for cyclic carbonate synthesis. Dalton Transactions, 0, , .	1.6	0