

# Ren S Rojas

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78  
papers

1,279  
citations

19  
h-index

32  
g-index

85  
ext. papers

1,402  
ext. citations

3.8  
avg, IF

4.18  
L-index

#	Paper	IF	Citations
78	Highly Active CO <sub>2</sub> Fixation into Cyclic Carbonates Catalyzed by Tetranuclear Aluminum Benzodiimidazole-Diylidene Adducts. <i>Catalysts</i> , <b>2021</b> , 11, 2	4	1
77	Toward a Neutral Single-Component Amidinate Iodide Aluminum Catalyst for the CO Fixation into Cyclic Carbonates. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 1172-1182	5.1	6
76	New guanidine-borane adducts: An experimental and theoretical approach. <i>Inorganica Chimica Acta</i> , <b>2021</b> , 518, 120217	2.7	1
75	Trapping an unusual pentacoordinate carbon atom in a neutral trialuminum complex. <i>Chemical Communications</i> , <b>2021</b> , 57, 10327-10330	5.8	1
74	Mono- and Dinuclear Asymmetric Aluminum Guanidates for the Catalytic CO <sub>2</sub> Fixation into Cyclic Carbonates. <i>Organometallics</i> , <b>2021</b> , 40, 2859-2869	3.8	3
73	Synthesis of highly branched oligoethylenes by air-stable N,N-indazole derivate methallyl Ni(II) complexes. <i>Inorganica Chimica Acta</i> , <b>2020</b> , 510, 119761	2.7	0
72	Aluminum complexes with new non-symmetric ferrocenyl amidine ligands and their application in CO transformation into cyclic carbonates. <i>Dalton Transactions</i> , <b>2020</b> , 49, 1124-1134	4.3	6
71	Copper (II) as catalyst for intramolecular cyclization and oxidation of (1,4-phenylene)bisguanidines to benzodiimidazole-diylidenes. <i>Journal of Catalysis</i> , <b>2020</b> , 382, 150-154	7.3	2
70	Evaluation of novel imino-phenol ligands in divalent metal ion extraction/recovery processes from leaching solutions. <i>Separation and Purification Technology</i> , <b>2020</b> , 252, 117451	8.3	1
69	Development of a co-precipitation process for the preparation of magnesium hydroxide containing lithium carbonate from Li-enriched brines. <i>Hydrometallurgy</i> , <b>2020</b> , 198, 105515	4	5
68	Mechanistic study of the competitiveness between branched and linear polyethylene production on N-arylcyanodiketiminato nickel hydride. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 6640-6649	4.9	1
67	Ethylene polymerization by binuclear chromium complex with tetrakis(pyrazolyl-methyl)benzene ligand. <i>Polymer Bulletin</i> , <b>2020</b> , 77, 2269-2284	2.4	2
66	A molecular electron density theory study of the insertion of CO into frustrated Lewis pair boron-amidines: a [4 + 1] cycloaddition reaction. <i>Dalton Transactions</i> , <b>2019</b> , 48, 9214-9224	4.3	3
65	Unexpected intramolecular N-arylcyanodiketiminato cyclization in new aminoquinoline derivative complexes of aluminium for CO <sub>2</sub> fixation into cyclic carbonates. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 12059-12068	3.6	3
64	Aromatic guanidines as highly active binary catalytic systems for the fixation of CO <sub>2</sub> into cyclic carbonates under mild conditions. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 3879-3886	5.5	12
63	Modification of rGO by B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> to generated single-site Lewis Acid rGO-O-B(C <sub>6</sub> F <sub>5</sub> ) <sub>2</sub> as co activator of nickel complex, to produce highly disperse rGO-PE nanocomposite. <i>Applied Catalysis A: General</i> , <b>2019</b> , 580, 149-157	5.1	4
62	Nickel Catalysts Activated by rGO Modified with a Boron Lewis Acid To Produce rGO-Hyperbranched PE Nanocomposites. <i>Organometallics</i> , <b>2019</b> , 38, 3327-3337	3.8	3

61	Cyclic Carbonates from CO <sub>2</sub> and Epoxides Catalyzed by Tetra- and Pentacoordinate Amidinate Aluminum Complexes. <i>Organometallics</i> , <b>2019</b> , 38, 469-478	3.8	27
60	Amidinate Aluminium Complexes as Catalysts for Carbon Dioxide Fixation into Cyclic Carbonates. <i>ChemCatChem</i> , <b>2018</b> , 10, 2271-2277	5.2	43
59	Intermolecular stabilization in new 2-iminopyridine derivatives complexes of Pd(II) and their reactivity towards alkenes. <i>Journal of Organometallic Chemistry</i> , <b>2018</b> , 863, 21-29	2.3	2
58	Heteroleptic Cu(I) complexes bearing methoxycarbonyl-imidoindazole and POP ligands: An experimental and theoretical study of their photophysical properties. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 12576-12586	3.6	9
57	B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> Promotes the catalytic activation of [N,S]-ferrocenyl nickel complexes in ethylene oligomerization. <i>Applied Catalysis A: General</i> , <b>2018</b> , 550, 228-235	5.1	6
56	Chromium(III) complexes bearing bis(benzotriazolyl)pyridine ligands: synthesis, characterization and ethylene polymerization behavior. <i>Journal of Coordination Chemistry</i> , <b>2017</b> , 70, 803-818	1.6	5
55	Ring-opening polymerization and copolymerization of cyclic esters catalyzed by amidinate aluminum complexes. <i>Journal of Polymer Science Part A</i> , <b>2017</b> , 55, 2397-2407	2.5	29
54	New imidoindazole platinum (II) complexes as potential anticancer agents: Synthesis, evaluation of cytotoxicity, cell death and experimental-theoretical DNA interaction studies. <i>Journal of Inorganic Biochemistry</i> , <b>2017</b> , 174, 90-101	4.2	8
53	The Role of Co-Activation and Ligand Functionalization in Neutral Methallyl Nickel(II) Catalysts for Ethylene Oligomerization and Polymerization. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 10167-10176	4.8	8
52	Synthesis of 4(3H)quinazolinimines with selective cytotoxic effect on human acute promyelocytic leukemia cells. <i>Bioorganic and Medicinal Chemistry</i> , <b>2017</b> , 25, 2681-2688	3.4	5
51	Borata-Alkene Derived Syntheses of (F <sub>5</sub> C <sub>6</sub> ) <sub>2</sub> B-Substituted Bis(indenyl) Group 4 Metal Complexes. <i>Organometallics</i> , <b>2016</b> , 35, 2689-2693	3.8	7
50	Dialkylboron guanidates: syntheses, structures and carbodiimide de-insertion reactions. <i>Dalton Transactions</i> , <b>2016</b> , 45, 15350-15363	4.3	9
49	Catalytically Active N-Acyamidine Zirconium Complexes: Synthesis, Structures, and Application in Ethylene Polymerization. <i>Organometallics</i> , <b>2016</b> , 35, 1906-1915	3.8	9
48	New air stable cationic methallyl Ni complexes bearing imidoindazole carboxylate ligand: Synthesis, characterization and their reactivity towards ethylene. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 414, 19-26		12
47	Synthesis of new phosphorescent imidoindazole and phosphine mixed ligand Cu(I) complexes: structural characterization and photophysical properties. <i>RSC Advances</i> , <b>2016</b> , 6, 5141-5153	3.7	18
46	A new series of zirconium metallocenes derived from partially alkylated s-indacene with potential applications in the polymerization of ethylene. <i>Inorganica Chimica Acta</i> , <b>2015</b> , 434, 121-126	2.7	2
45	Synthesis of 4(3H)quinazolinimines by reaction of (E)-N-(aryl)-acetimidoyl or -benzimidoyl chloride with amines. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 6183-93	3.9	11
44	A computational and conceptual DFT study on the mechanism of hydrogen activation by novel frustrated Lewis pairs. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 10715-25	3.6	19

43	The performance of methallyl nickel complexes and boron adducts in the catalytic activation of ethylene: a conceptual DFT perspective. <i>Journal of Molecular Modeling</i> , <b>2015</b> , 21, 227	2	8
42	Synthesis of new asymmetric substituted boron amidines - reactions with CO and transfer hydrogenations of phenylacetylene. <i>Dalton Transactions</i> , <b>2015</b> , 44, 19606-14	4.3	19
41	Methyl branching in polyethylene from homopolymerization of ethylene with N-arylciano- $\beta$ -diketiminato methallyl nickel-B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> . <i>Journal of Polymer Science Part A</i> , <b>2015</b> , 53, 452-458	2.5	8
40	Lewis Acid Enhanced Ethene Dimerization and Alkene Isomerization ESI-MS Identification of the Catalytically Active Pyridyldimethoxybenzimidazole Nickel(II) Hydride Species. <i>ACS Catalysis</i> , <b>2015</b> , 5, 7338-7342	13.1	24
39	Synthesis and structures of N-arylciano- $\beta$ -diketiminato zinc complexes and adducts and their application in ring-opening polymerization of L-lactide. <i>RSC Advances</i> , <b>2015</b> , 5, 21054-21065	3.7	11
38	Grafting of the zirconium complexes [Zr( $\beta$ -C <sub>5</sub> H <sub>5</sub> )(NC-amidino)Cl <sub>2</sub> ] and [Zr( $\beta$ -C <sub>5</sub> H <sub>5</sub> )(NC-NacNac)Cl <sub>2</sub> ] and the study of their behavior in ethylene polymerization. <i>Journal of Molecular Catalysis A</i> , <b>2014</b> , 391, 130-138		4
37	Copper(I) complexes based on a new indazol-4,7-dione ligand. <i>Polyhedron</i> , <b>2013</b> , 62, 66-74	2.7	6
36	N-Arylciano- $\beta$ -diketiminato Methallyl Nickel Complexes: Synthesis, Adduct Formation, and Reactivity toward Ethylene. <i>Organometallics</i> , <b>2013</b> , 32, 7323-7333	3.8	27
35	Synthesis and structural characterization of new 2-bromo-1,3-bis(triazol-1-ylmethyl)benzene ligands. Study of their behavior as complexing agents for determination of nickel(II) by adsorptive stripping voltammetry. <i>Journal of Coordination Chemistry</i> , <b>2013</b> , 66, 592-601	1.6	2
34	Novel titanocene derived from a partially alkylated s-indacene: Synthesis, characterization and comparative study with its zirconium analog. <i>Inorganica Chimica Acta</i> , <b>2013</b> , 396, 35-39	2.7	2
33	PALLADIUM COMPLEX BEARING 3,5-BIS(BENZOTRIAZOL-1-YLMETHYL)TOLUENE LIGAND CATALYZES OXIDATIVE AMINATION OF ALLYL BUTYL ETHER. <i>Journal of the Chilean Chemical Society</i> , <b>2013</b> , 58, 1534-1536	2.5	5
32	Synthesis of [(Cyano-P-nacnac)Cp] and [(Cyano-nacnac)Cp]-zirconium complexes, and their remote activation for ethylene polymerization. <i>Dalton Transactions</i> , <b>2012</b> , 41, 1243-51	4.3	15
31	Nickel pre-catalysts bearing [(N)-imidoylamidino] ligands; influence of the presence of pyridine and pentafluorophenyl groups in ligand backbone on the reactivity in ethylene polymerizations. <i>Journal of Organometallic Chemistry</i> , <b>2012</b> , 700, 147-153	2.3	10
30	Organonickel(II) complexes with anionic tridentate 1, 3-bis(azolylmethyl)phenyl ligands. synthesis, structural characterization and catalytic behavior. <i>Journal of the Brazilian Chemical Society</i> , <b>2011</b> , 22, 1750-1757	1.5	5
29	New bis(azolylcarbonyl)pyridine chromium(III) complexes as initiators for ethylene polymerization. <i>Inorganica Chimica Acta</i> , <b>2011</b> , 378, 218-223	2.7	9
28	Development of Imine Derivative Ligands for the Exocyclic Activation of Late Transition Metal Polymerization Catalysts. <i>Catalysis By Metal Complexes</i> , <b>2011</b> , 39-75		4
27	Synthesis and characterization of materials prepared via the copolymerization of ethylene with 1-octadecene and norbornene using a [(Cyano-nacnac)Cp] zirconium complex. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 1535-1542	2.5	6
26	Synthesis and Structure of Bifunctional Zirconocene/Borane Complexes and Their Activation for Ethylene Polymerization. <i>Organometallics</i> , <b>2011</b> , 30, 6372-6382	3.8	22

25	Reactions of Topologically Related $\beta$ -nacnac-CNi and $\beta$ -nacnac-CNi Chelate Ligand Systems with HB(C6F5) <sub>2</sub> . <i>Organometallics</i> , <b>2011</b> , 30, 2377-2384	3.8	15
24	Synthesis of a [(E)Cyano-nacnac]Cp]zirconium Complex and Its Remote Activation for Ethylene Polymerization. <i>Organometallics</i> , <b>2010</b> , 29, 6104-6110	3.8	27
23	Palladium(II) complexes bearing the new pincer ligand 3,5-bis(indazol-2-ylmethyl)toluene; synthesis and catalytic properties. <i>Inorganic Chemistry Communication</i> , <b>2010</b> , 13, 1025-1028	3.1	11
22	Synthesis, characterization, and reactivity studies in ethylene polymerization of cyclometalated palladium(II) complexes containing terdentate ligands with N,C,N-donors. <i>Journal of Coordination Chemistry</i> , <b>2009</b> , 62, 2772-2781	1.6	10
21	Nickel alpha-keto-beta-diimine initiators for olefin polymerization. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 1089-92	16.4	84
20	Synthesis of nanosized ZSM-2 zeolite with potential acid catalytic properties. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 117, 118-125	5.3	23
19	Acetamidine complexes as catalysts for ethylene polymerization. <i>Journal of Organometallic Chemistry</i> , <b>2009</b> , 694, 717-725	2.3	16
18	Binding modes of a dimethyliminopentanone ligand on nickel pre-catalysts toward olefin polymerization. <i>Journal of Organometallic Chemistry</i> , <b>2009</b> , 694, 1380-1384	2.3	6
17	Mono and bimetallic nickel bromide complexes bearing azolate-imine ligands: Synthesis, structural characterization and ethylene polymerization studies. <i>Journal of Organometallic Chemistry</i> , <b>2009</b> , 694, 1795-1801	2.3	18
16	Chromium(III) complexes with terdentate 2,6-bis(azolylmethyl)pyridine ligands: Synthesis, structures and ethylene polymerization behavior. <i>Journal of Organometallic Chemistry</i> , <b>2009</b> , 694, 2636-2641	2.3	18
15	Highly dispersed clay-polyolefin nanocomposites free of compatibilizers, via the in situ polymerization of alpha-olefins by clay-supported catalysts. <i>Chemical Communications</i> , <b>2008</b> , 4186-8	5.8	30
14	Remote Activation of Nickel Complexes by Coordination of B(C6F5) <sub>3</sub> to an Exocyclic Carbonitrile Functionality. <i>Organometallics</i> , <b>2008</b> , 27, 1671-1674	3.8	41
13	Ethylene polymerization and copolymerization with a polar monomer using an $\beta$ aminocarboxamide nickel complex activated by trimethylaluminum. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 54-59	2.5	12
12	Ethylene polymerization using dealuminated ZSM-2 zeolite nanocrystals as an active metallocene catalyst support. <i>Applied Catalysis A: General</i> , <b>2008</b> , 347, 223-233	5.1	22
11	Single-Component $\beta$ aminocarboxamide Nickel Ethylene Polymerization and Copolymerization Initiators. <i>Organometallics</i> , <b>2007</b> , 26, 5339-5345	3.8	46
10	$\beta$ aminocarboxamide Nickel Complexes: Synthesis and Uses in Ethylene Polymerization. <i>Organometallics</i> , <b>2005</b> , 24, 5644-5653	3.8	40
9	Substituted cyclopentadienylchromium(III) complexes containing neutral donor ligands. Synthesis, crystal structures and reactivity in ethylene polymerization. <i>Journal of Organometallic Chemistry</i> , <b>2004</b> , 689, 293-301	2.3	14
8	Trimethylsilylcyclopentadienylchromium(III) complexes with diphenyl-2-pyridylphosphine: synthesis, structural characterisation and catalytic behaviour of [(C6H5) <sub>2</sub> PC5H4NH][( $\beta$ -Me3SiCp)CrCl3]. <i>Journal of Organometallic Chemistry</i> , <b>2004</b> , 689, 2268-2272	2.3	9

7	Synthesis, structural characterization and ethylene polymerization behavior of complex [Ph <sub>4</sub> P][CrCl <sub>3</sub> {HB(pz) <sub>3</sub> }] [HB(pz) <sub>3</sub> =hydrotris(1-pyrazolyl)borate]. <i>Inorganic Chemistry Communication</i> , <b>2004</b> , 7, 1295-1297	3.1	29
6	Results coming from homogeneous and supported metallocene catalysts in the homo- and copolymerization of olefins. <i>Macromolecular Symposia</i> , <b>2002</b> , 189, 111-126	0.8	12
5	NMR Study of Branched Polyethylenes Obtained with Combined Fe and Zr Catalysts. <i>Macromolecules</i> , <b>2002</b> , 35, 339-345	5.5	145
4	Synthesis of Branched Polyethylene from Ethylene by Tandem Action of Iron and Zirconium Single Site Catalysts. <i>Macromolecules</i> , <b>2001</b> , 34, 2411-2417	5.5	98
3	Synthesis and characterization of copolymers of ethylene and 1-octadecene using the rac-Et(Ind) <sub>2</sub> ZrCl <sub>2</sub> /MAO catalyst system. <i>Macromolecular Chemistry and Physics</i> , <b>1999</b> , 200, 1306-1310	2.6	43
2	The effect of reaction parameters on catalytic activity in the polymerization of ethylene using supported and unsupported metallocene catalysts. <i>Applied Catalysis A: General</i> , <b>1998</b> , 166, 207-213	5.1	18
1	Study of the effect of the monomer pressure on the copolymerization of ethylene with 1-hexene. <i>Journal of Applied Polymer Science</i> , <b>1997</b> , 64, 2567-2574	2.9	22