

JosÃ© A LÃ³pez

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Rhodium Complexes in C Bond Formation: Key Role of a Hydrido Ligand. <i>Journal of the American Chemical Society</i> , 2021, 143, 349-358.	6.6	11
2	Three-coordinate Rhodium Complexes in Low Oxidation States. <i>Chemistry - A European Journal</i> , 2020, 26, 3270-3274.	1.7	6
3	Inner-sphere Oxygen Activation Promoting Outer-sphere Nucleophilic Attack on Olefins. <i>Chemistry - A European Journal</i> , 2019, 25, 14546-14554.	1.7	7
4	Rhodium Complexes in H Bond Activation Reactions. <i>Chemistry - A European Journal</i> , 2019, 25, 15915-15928.	1.7	13
5	Activating a Peroxo Ligand for C=O Bond Formation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3037-3041.	7.2	9
6	Activating a Peroxo Ligand for C=O Bond Formation. <i>Angewandte Chemie</i> , 2019, 131, 3069-3073.	1.6	2
7	Pseudo-tetrahedral Rhodium and Iridium Complexes: Catalytic Synthesis of Enynes. <i>Chemistry - A European Journal</i> , 2018, 24, 17545-17556.	1.7	7
8	Rhodium Complexes Promoting C=O Bond Formation in Reactions with Oxygen: The Role of Superoxo Species. <i>Chemistry - A European Journal</i> , 2017, 23, 5232-5243.	1.7	9
9	Half-sandwich complexes of iridium and ruthenium containing cysteine-derived ligands. <i>Dalton Transactions</i> , 2017, 46, 962-976.	1.6	4
10	Agostic versus Terminal Ethyl Rhodium Complexes: A Combined Experimental and Theoretical Study. <i>Organometallics</i> , 2016, 35, 799-808.	1.1	5
11	Half-sandwich complexes of rhodium containing cysteine-derived ligands. <i>Dalton Transactions</i> , 2016, 45, 14203-14215.	1.6	3
12	Nucleophilicity and C Bond Formation Reactions of a Terminal Phosphanido Iridium Complex. <i>Inorganic Chemistry</i> , 2016, 55, 828-839.	1.9	9
13	Pseudotetrahedral Rhodium(I) Complexes. <i>Chemistry - A European Journal</i> , 2014, 20, 2732-2736.	1.7	9
14	Terminal Imido Rhodium Complexes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5614-5618.	7.2	33
15	Terminal Imido Rhodium Complexes. <i>Angewandte Chemie</i> , 2014, 126, 5720-5724.	1.6	12
16	Connecting C ₁ /2 C Bonds to Tetrairidium Chains. <i>Chemistry - A European Journal</i> , 2013, 19, 4707-4711.	1.7	14
17	Rhodium and Iridium Complexes with a New Scorpionate Phosphane Ligand. <i>Inorganic Chemistry</i> , 2013, 52, 7593-7607.	1.9	12
18	Aerobic Oxidation of Carbon Monoxide in a Tetrametallic Complex. <i>Chemistry - A European Journal</i> , 2012, 18, 15250-15253.	1.7	7

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19	Highly Luminescent Half-Lantern Cyclometalated Platinum(II) Complex: Synthesis, Structure, Luminescence Studies, and Reactivity.. Inorganic Chemistry, 2012, 51, 3427-3435.	1.9	98
20	Easy Access to Hydride Chemistry on a Tripodal P-Based Rhodium Scaffold. Organometallics, 2012, 31, 2895-2906.	1.1	16
21	Snapshots of a Reversible Metal-Ligand Two-Electron Transfer Step Involving Compounds Related by Multiple Types of Isomerism. European Journal of Inorganic Chemistry, 2012, 2012, 512-519.	1.0	15
22	Pt-Ag clusters and their neutral mononuclear Pt(II) starting complexes: structural and luminescence studies. Dalton Transactions, 2011, 40, 2898.	1.6	46
23	Developing Synthetic Approaches with Non-Innocent Metalloligands: Easy Access to Ir ^I /Pd ⁰ and Ir ^I /Pd ⁰ /Ir ^I Cores. Angewandte Chemie - International Edition, 2011, 50, 8839-8843.	7.2	23
24	Rhodium Mediated C-H Bond Functionalisation Leading to Carboxylate Derivatives. Chemistry - A European Journal, 2010, 16, 11261-11265.	1.7	12
25	Structural and Luminescence Studies on Ir and Pt Interactions in Mixed Chloro-Isocyanide Cyclometalated Platinum(II) Complexes. Inorganic Chemistry, 2010, 49, 3239-3251.	1.9	119
26	Synthesis and Luminescence of Cyclometalated Compounds with Nitrile and Isocyanide Ligands. Organometallics, 2009, 28, 1705-1718.	1.1	96
27	Selective Hydrogenation of Cinnamaldehyde and Other α,β -Unsaturated Substrates Catalyzed by Rhodium and Ruthenium Complexes. Organometallics, 2009, 28, 3193-3202.	1.1	35
28	Intervalent Bis(1,4-czridinato)M ^{II} Complexes (M=Rh, Ir): Delocalized Metallo-Radicals or Delocalized Aminyl Radicals?. Chemistry - A European Journal, 2008, 14, 10985-10998.	1.7	10
29	Stabilization of the Hydroperoxido Ligand: A 1 ⁺ O ⁻ , 2 ⁺ O ⁻ Dimetallic Coordination Mode. Angewandte Chemie - International Edition, 2008, 47, 2093-2096.	7.2	35
30	Formation of a Bridging-Imido d ⁶ Rhodium Compound by Nitrene Capture. Insertion and Cycloaddition Reactions. Inorganic Chemistry, 2008, 47, 10220-10222.	1.9	21
31	New Water Soluble and Luminescent Platinum(II) Compounds, Vapochromic Behavior of [K(H ₂ O)] ₂ [Pt(bzq)(CN) ₂], New Examples of the Influence of the Counterion on the Photophysical Properties of d ⁸ Square-Planar Complexes. Inorganic Chemistry, 2008, 47, 7166-7176.	1.9	109
32	One-Electron versus Two-Electron Mechanisms in the Oxidative Addition Reactions of Chloroalkanes to Amido-Bridged Rhodium Complexes. Chemistry - A European Journal, 2007, 13, 2044-2053.	1.7	26
33	Supramolecular Structures and Columnar Mesophase Induction in Nondisoid Pyrazoles by Complexation to Rhodium(I). Inorganic Chemistry, 2006, 45, 10363-10370.	1.9	22
34	Mechanistic Investigations of Imine Hydrogenation Catalyzed by Dinuclear Iridium Complexes. Chemistry - A European Journal, 2006, 12, 4057-4068.	1.7	44
35	A Hexanuclear Iridium Chain. Angewandte Chemie, 2003, 115, 547-550.	1.6	19
36	A Hexanuclear Iridium Chain. Angewandte Chemie - International Edition, 2003, 42, 529-532.	7.2	66

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37	Protonation Reactions of Dinuclear Pyrazolato Iridium(I) Complexes. <i>Inorganic Chemistry</i> , 2003, 42, 4750-4758.	1.9	25
38	An investigation of the Lewis acid mediated 1,3-dipolar cycloaddition between N-benzyl-C-(2-pyridyl)nitrene and allylic alcohol. Direct entry to isoxazolidinyl C-nucleosides. Electronic supplementary information (ESI) available: optimized geometries (PDB) Tj ETQq0 0 0 rgBT 10verlock 16 Tf 50 69 1, 2336.	1.9	25
39	Dinuclear Rhodium and Iridium Complexes with Mixed Amido/Methoxo and Amido/Hydroxo Bridges. <i>Inorganic Chemistry</i> , 2002, 41, 2348-2355.	1.9	25
40	Diastereoselective formation of chiral iridium hydrides containing the chiral P,N-chelate ligand (4S)-2-(2-(diphenylphosphino)phenyl)-4-isopropyl-1,3-oxazoline. Electronic supplementary information (ESI) available: selected analytical and spectroscopic data for 1. See http://www.rsc.org/suppdata/cc/b2/b200518b/ . <i>Chemical Communications</i> , 2002, , 870-871.	2.2	10
41	Structural and Dynamic Studies on Amido-Bridged Rhodium and Iridium Complexes. <i>Chemistry - A European Journal</i> , 2002, 8, 3128.	1.7	25
42	Synthesis of Paramagnetic Tetranuclear Rhodium and Iridium Complexes with the 2,6-Pyridinedithiolate Ligand. Redox-Induced Degradation to Diamagnetic Triiridium Compounds. <i>Inorganic Chemistry</i> , 2001, 40, 4785-4792.	1.9	14
43	New Dihydrate ⁺ and Alkene ⁺ -6-Arene Complexes of Iridium. <i>Organometallics</i> , 2001, 20, 2716-2724.	1.1	40
44	Transmission of Trans Effects in Dinuclear Complexes. <i>Journal of the American Chemical Society</i> , 2001, 123, 11925-11932.	6.6	32
45	Discrete Mixed-Valence Metal Chains: Iridium Pyridonate Blues The generous financial support from DGES and MCYT-PNI (Projects PB98-641 and BQU2000-1170) is gratefully acknowledged.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4084.	7.2	44
46	Rhodium-Rhodium Bonds in Edge-Sharing Coplanar Dinuclear Complexes. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 2336-2339.	7.2	6
47	Oxidative-Addition of Organic Monochloro Derivatives to Dinuclear Iridium Complexes: The Detection of Tautomeric Equilibria and Their Implications on the Reactivity. <i>Organometallics</i> , 2000, 19, 4977-4984.	1.1	29
48	Rhodium ⁺ Rhodium Bonds in Edge-Sharing Coplanar Dinuclear Complexes. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 2336-2339.	7.2	1
49	The (NHEt ₃)[Rh(C ₆ Cl ₂ O ₄)(CO) ₂] complex: an example of the adverse counterion influence in the formation of metallic stacks. <i>Inorganic Chemistry Communication</i> , 1999, 2, 414-418.	1.8	7
50	Rhodium(I) and Iridium(I) Complexes Containing η^2 -Diketonate or Pyrazole Ligands. Liquid Crystal and Nonlinear Optical Properties. <i>Inorganic Chemistry</i> , 1999, 38, 3085-3092.	1.9	29
51	C-H Bond Activations by New Labile η^6 -Arene Complexes of Iridium. <i>Journal of the American Chemical Society</i> , 1999, 121, 10632-10633.	6.6	31
52	Labile Hydrido Complexes of Iridium(III): Synthesis, Dynamic Behavior in Solution, and Reactivity toward Alkenes. <i>Organometallics</i> , 1999, 18, 3534-3546.	1.1	43
53	Encapsulation of Thallium(I) by Tetranuclear Rhodium or Iridium Complexes: Synthesis and Molecular Structure of Heterobimetallic Complexes Stabilized by s ² d ⁸ Bonding Interactions. <i>Inorganic Chemistry</i> , 1999, 38, 2482-2488.	1.9	28
54	Oxidative addition of methyl iodide and iodine to new binuclear rhodium(I) and iridium(I) compounds containing diaminoanthraquinone-bridging ligands. Crystal structure of [Rh(η^4 -1,4-DA)(CO) ₂ (PPh ₃) ₂] (1,4-H ₂ DA = 1,4-diaminoanthraquinone). <i>Inorganica Chimica Acta</i> , 1998, 274, 15-23.	1.2	15

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55	Binuclear Oxidative Addition of Hydrogen in Diamidonaphthalene-Bridged Iridium Complexes. <i>Chemistry - A European Journal</i> , 1998, 4, 1398-1410.	1.7	44
56	Rhodium and Iridium Pyrazolato Blues. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 1542-1545.	7.2	47
57	Binuclear pentamethylcyclopentadienyl rhodium(III) compounds with pyrazolate and thiolate bridging ligands. <i>Journal of Organometallic Chemistry</i> , 1998, 551, 55-65.	0.8	9
58	Synthesis of $[\text{Ir}_2(\eta^4\text{-Pz})_2(\text{CH}_3)(\text{CO})_2(\text{P}i\text{Pr}_3)_2]^+$. A key intermediate in $\text{S}_\text{N}2$ oxidative addition of halocarbons to dinuclear complexes. <i>Inorganic Chemistry Communication</i> , 1998, 1, 64-67.	1.8	27
59	Synthesis of the homoleptic rhodium(III) complex $[\text{Rh}(\text{C}_6\text{Cl}_5)_3]$. Molecular structures of $[\text{Rh}(\text{C}_6\text{Cl}_5)_3]$ and $[\text{Rh}(\text{C}_6\text{Cl}_4\text{C}_6\text{Cl}_4)(\text{C}_6\text{Cl}_5)(\text{SC}_4\text{H}_8)_2]$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 4211-4214.	1.1	10
60	Cooperative Bimetallic Effects on New Iridium(III) Pyrazolate Complexes: H_2 Hydrogen-Hydrogen, $\text{C}-\text{H}$ Hydrogen, and $\text{C}-\text{Cl}$ Chlorine Bond Activations. <i>Organometallics</i> , 1998, 17, 683-696.	1.1	79
61	Unusual Tautomers in Dinuclear Metal Chemistry and Their Role in Oxidative-Addition Reactions of Chlorocarbons. <i>Organometallics</i> , 1998, 17, 1449-1451.	1.1	23
62	(Pyrazolato)gold Complexes Showing Room-Temperature Columnar Mesophases. Synthesis, Properties, and Structural Characterization. <i>Inorganic Chemistry</i> , 1998, 37, 2960-2967.	1.9	96
63	Rhodium Dithiocarbamate Compounds as Metalloligands: A Controlled Way for the Construction of Binuclear Complexes. <i>Inorganic Chemistry</i> , 1998, 37, 824-829.	1.9	24
64	Synthesis and Reactivity of Mononuclear (Pentachlorophenyl)rhodium(II) Complexes. Structural Relevance of Rhodium-o-Chlorine Secondary Bonding. <i>Organometallics</i> , 1997, 16, 1026-1036.	1.1	40
65	New Perspective on the Formation and Reactivity of Metal-Metal-Bonded Dinuclear Rhodium and Iridium Complexes. <i>Organometallics</i> , 1997, 16, 4718-4727.	1.1	34
66	Tris(diphenylthiophosphinoyl)methanide as tripod ligand in rhodium(III), iridium(III) and ruthenium(II) complexes. Crystal structures of $[(\eta^5\text{-C}_5\text{Me}_5)\text{Ir}\{\eta^3\text{-}(\text{SPPH}_2)_3\text{C-S, S}\}_2]\text{BF}_4$ and $[(\eta^6\text{-MeC}_6\text{H}_4\text{P}i\text{r})\text{Ru}\{\eta^3\text{-}(\text{SPPH}_2)_3\text{C-S, S}\}_2]\text{BPh}_4$. <i>Journal of Organometallic Chemistry</i> , 1997, 545-546, 507-517.	0.8	10
67	Dynamic Behavior, Redistribution Reactions, and Intermetallic Distances of Dinuclear Bis(η^4 -pyrazolato)rhodium(I) Complexes. <i>Organometallics</i> , 1996, 15, 2967-2978.	1.1	48
68	Chiral rhodium complexes as catalysts in Diels-Alder reactions. <i>Chemical Communications</i> , 1996, , 1247-1248.	2.2	56
69	Synthesis of Coinage Metal Cation Adducts of $\text{Nb}(\text{C}_5\text{H}_4\text{SiMe}_3)_2\text{H}(\text{CO})$. X-ray Crystal Structure of $[\{\text{Nb}(\text{C}_5\text{H}_4\text{SiMe}_3)_2(\text{CO})\}_2(\mu\text{-H})_2\text{Cu}]\text{PF}_6$. <i>Organometallics</i> , 1995, 14, 1297-1301.	1.1	17
70	Oxidation of Substrates by an Iridium Dioxygen Complex: Intramolecular Oxidation of Carbon Monoxide and Activation of a Carbonyl Group by Attack of a Heterocyclic Nitrogen. <i>Organometallics</i> , 1995, 14, 4764-4775.	1.1	29
71	Oxidative Addition Reactions to Novel Heterotrinnuclear Iridium Complexes with Mixed Bridging Ligands. Crystal Structure of $[\{\text{Ir}(\mu\text{-pz})(\mu\text{-StBu})_2(\text{CO})[\text{P}(\text{OMe})_3]\}_2\text{Pd}]$. <i>Inorganic Chemistry</i> , 1995, 34, 111-115.	1.9	13
72	Structural and NMR spectroscopic characterization of η^3 -Benzyl palladium(II) complexes. <i>Journal of Organometallic Chemistry</i> , 1994, 483, 77-89.	0.8	42

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73	A pictorial MO description of Buckminsterfullerene and its interactions with transition metal fragments. <i>Journal of Organometallic Chemistry</i> , 1994, 478, 161-171.	0.8	35
74	Multiple Bonds between Main-Group Elements and Transition Metals. 123. Re-C Bond Homolysis in Alkyl- and Arylrhenium Trioxides: A Qualitative MO Interpretation. <i>Inorganic Chemistry</i> , 1994, 33, 1139-1143.	1.9	24
75	MO architectures of octahedral metal clusters. <i>Inorganica Chimica Acta</i> , 1993, 213, 199-212.	1.2	22
76	Nucleophilic attack at the central allyl carbon atom in $[(\eta^3\text{-allyl})\text{ML}_2]^+$ complexes (M = palladium,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	1.1	46
77	Reactivity of binuclear heterobridged iridium complexes with SnCl_2 . <i>Journal of the Chemical Society Dalton Transactions</i> , 1992, , 2389-2393.	1.1	13
78	Synthesis, molecular structure, and reactivity of octahedral alkylhydridoosmium(II) complexes $[\text{OsH}(\text{R})(\text{CO})_2(\text{PR}'_3)_2]$. <i>Organometallics</i> , 1992, 11, 2034-2043.	1.1	73
79	Oxidative-addition reactions of MeI or CH_2I_2 to $[\text{M}_2(\mu\text{-pz})(\mu\text{-SBut})(\text{CO})_2\{\text{P}(\text{OMe})_3\}_2]$ (M = Rh or Ir) complexes. X-Ray structure of $[\text{Ir}_2(\mu\text{-pz})(\mu\text{-SBut})(\mu\text{-CH}_2)\text{I}_2(\text{CO})_2\{\text{P}(\text{OMe})_3\}_2]$ (pz = pyrazolate). <i>Journal of the Chemical Society Dalton Transactions</i> , 1991, , 1391-1395.	1.1	29
80	Reactivity of ruthenium and niobium trihydrides with gold fragments. Crystal structure of the hexanuclear raft cluster $[\text{Au}_3\text{Nb}_3(\mu\text{-H})_6(\text{i-C}_5\text{H}_4\text{SiMe}_3)_6]$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1991, , 1861-1866.	1.1	12
81	Preparation, x-ray molecular structure, and electronic structure of the first 16-electron ruthenium dihydrogen complexes $\text{RuH}(\text{H}_2)\text{X}(\text{PCy}_3)_2$. <i>Journal of the American Chemical Society</i> , 1991, 113, 2314-2316.	6.6	76
82	Reactivity of ruthenium trihydrides with Brønsted and Lewis acids. X-ray crystal structures of $\{\text{Cp}^*\text{Ru}[\text{C}_6\text{H}_9\text{P}(\text{C}_6\text{H}_{11})_2]\}_2\text{BF}_4$ and $\{\{\text{Cp}^*\text{RuH}[\text{P}(\text{C}_6\text{H}_{11})_3]\}(\mu\text{-H})_2\text{Cu}(\mu\text{-Cl})\}_2$. Evidence for exchange coupling between two hydrogen atoms. <i>Organometallics</i> , 1991, 10, 1888-1896.	1.1	52
83	Synthesis, reactivity, molecular structure, and catalytic activity of the novel dichlorodihydroosmium(IV) complexes $\text{OsH}_2\text{Cl}_2(\text{PR}_3)_2$ ($\text{PR}_3 = \text{P-i-Pr}_3, \text{PMe-t-Bu}_2$). <i>Inorganic Chemistry</i> , 1991, 30, 288-293.	1.9	175
84	Platinum-assisted addition of carbonyl-stabilized phosphorus ylides to benzonitrile to give iminophosphorane complexes of platinum(II). Crystal and molecular structure of $\text{trans-}[\text{PtCl}_2\{\text{E-N}(\text{:PPh}_3)\text{C}(\text{Ph})\text{:CHCO}_2\text{Et}\}(\text{NCPh})]$. <i>Inorganic Chemistry</i> , 1991, 30, 3617-3620.	1.9	49
85	Facile preparation, characterization, and X-ray crystal structure of $[\text{Ru}_3\{\mu_3\text{-i-C}_5\text{Me}_3(\text{CH}_2)_2\}(\mu_3\text{-O})(\mu_2\text{-H})(\text{i-C}_5\text{Me}_5)_2(\text{i-C}_2\text{SO}_4)]$, a high-valent hydrido-oxo cluster of ruthenium. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, .	2.0	13
86	Preparation, X-ray crystal and electronic structure of the novel raft cluster $[\text{NbAuH}_2\{\text{C}_5\text{H}_4(\text{SiMe}_3)\}_2]_3$. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 17.	2.0	13
87	Oxidative addition of I_2 , MeI , and CH_2I_2 to the naphthalene-1,8-diamide bridged complex $[\text{Ir}_2\{\mu\text{-1,8-(NH)}_2\text{C}_{10}\text{H}_6\}(\text{CO})_2(\text{PPh}_3)_2]$. X-Ray crystal structure of $[\text{Ir}_2\text{I}_2(\mu\text{-CH}_2)\{\mu\text{-1,8-(NH)}_2\text{C}_{10}\text{H}_6\}(\text{CO})_2(\text{PPh}_3)_2]\mu\text{-CH}_2\text{Cl}_2$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1990, , 2587-2591.	1.1	24
88	Tris(pentafluorophenyl) neutral and anionic five-co-ordinate complexes of rhodium(III). Crystal structures of $[\text{Rh}(\text{C}_6\text{F}_5)_3(\text{PEt}_3)_2]$ and $[\text{Rh}(\text{C}_6\text{F}_5)_3(\text{AsPh}_3)_2]$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1990, , 1503-1508.	1.1	13
89	Extended linear metal-metal interactions in an anionic rhodium(I) complex. X-Ray structure of $\text{NMe}_4[\text{Rh}(\text{ox})(\text{CO})_2]$ (ox = oxalato). <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 1889-1890.	2.0	13