

JosÃ© A LÃ³pez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9336050/publications.pdf>

Version: 2024-02-01

89
papers

2,772
citations

147566
31
h-index

205818
48
g-index

92
all docs

92
docs citations

92
times ranked

2161
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Structural and Luminescence Studies on Ir^{III} and Pt^{II} Interactions in Mixed Chloro-Isocyanide Cyclometalated Platinum(II) Complexes. <i>Inorganic Chemistry</i> , 2010, 49, 3239-3251.	1.9	119
3	New Water Soluble and Luminescent Platinum(II) Compounds, Vapochromic Behavior of $[\text{K}(\text{H}_2\text{O})_2][\text{Pt}(\text{bzq})(\text{CN})_2]$, New Examples of the Influence of the Counterion on the Photophysical Properties of d^8 Square-Planar Complexes. <i>Inorganic Chemistry</i> , 2008, 47, 7166-7176.	1.9	109
4	Highly Luminescent Half-Lantern Cyclometalated Platinum(II) Complex: Synthesis, Structure, Luminescence Studies, and Reactivity. <i>Inorganic Chemistry</i> , 2012, 51, 3427-3435.	1.9	98
5	(Pyrazolato)gold Complexes Showing Room-Temperature Columnar Mesophases. Synthesis, Properties, and Structural Characterization. <i>Inorganic Chemistry</i> , 1998, 37, 2960-2967.	1.9	96
6	Synthesis and Luminescence of Cyclometalated Compounds with Nitrile and Isocyanide Ligands. <i>Organometallics</i> , 2009, 28, 1705-1718.	1.1	96
7	Cooperative Bimetallic Effects on New Iridium(III) Pyrazolate Complexes: H^2 , C^2 , and C^2Cl Bond Activations. <i>Organometallics</i> , 1998, 17, 683-696.	1.1	79
8	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
9	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
10	A Hexanuclear Iridium Chain. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 529-532.	7.2	66
11	Chiral rhodium complexes as catalysts in Diels-Alder reactions. <i>Chemical Communications</i> , 1996, , 1247-1248.	2.2	56
12	Reactivity of ruthenium trihydrides with Brønsted and Lewis acids. X-ray crystal structures of $\{\text{Cp}^*\text{Ru}[\text{C}_6\text{H}_9\text{P}(\text{C}_6\text{H}_{11})_2]\text{BF}_4$ 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
13	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
14	Dynamic Behavior, Redistribution Reactions, and Intermetallic Distances of Dinuclear $\text{Bis}(\eta^4\text{-pyrazolato})\text{rhodium(I)}$ Complexes. <i>Organometallics</i> , 1996, 15, 2967-2978.	1.1	48
15	Rhodium and Iridium Pyrazolato Blues. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 1542-1545.	7.2	47
16	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>	1.9	46
17	Pt^{II} -Ag clusters and their neutral mononuclear Pt(II) starting complexes: structural and luminescence studies. <i>Dalton Transactions</i> , 2011, 40, 2898.	1.6	46
18	Binuclear Oxidative Addition of Hydrogen in Diamidonaphthalene-Bridged Diiridium Complexes. <i>Chemistry - A European Journal</i> , 1998, 4, 1398-1410.	1.7	44

#	ARTICLE	IF	CITATIONS
19	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
20	Mechanistic Investigations of Imine Hydrogenation Catalyzed by Dinuclear Iridium Complexes. <i>Chemistry - A European Journal</i> , 2006, 12, 4057-4068.	1.7	44
21	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
22	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
23	Synthesis and Reactivity of Mononuclear (Pentachlorophenyl)rhodium(II) Complexes. Structural Relevance of Rhodium- π -Chlorine Secondary Bonding. <i>Organometallics</i> , 1997, 16, 1026-1036.	1.1	40
24	New Dihydride- and Alkene- η^6 -Arene Complexes of Iridium. <i>Organometallics</i> , 2001, 20, 2716-2724.	1.1	40
25	An investigation of the Lewis acid mediated 1,3-dipolar cycloaddition between N-benzyl-C-(2-pyridyl)nitro and allylic alcohol. Direct entry to isoxazolidinyl C-nucleosides Electronic supplementary information (ESI) available: optimized geometries (PDB) Tj ETQq1 1 0.784314 rgBT / Overlock 10 1, 2226.	1.1	40
26	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
27	Stabilization of the Hydroperoxido Ligand: A η^2 - η^2 Dimetallic Coordination Mode. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2093-2096.	7.2	35
28	Selective Hydrogenation of Cinnamaldehyde and Other η^2 -Unsaturated Substrates Catalyzed by Rhodium and Ruthenium Complexes. <i>Organometallics</i> , 2009, 28, 3193-3202.	1.1	35
29	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
30	Terminal Imido Rhodium Complexes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5614-5618.	7.2	33
31	Transmission of Trans Effects in Dinuclear Complexes. <i>Journal of the American Chemical Society</i> , 2001, 123, 11925-11932.	6.6	32
32	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
33	Oxidative-addition reactions of MeI or CH ₂ I ₂ to [M ₂ (η^5 -pz)(η^5 -SBut)(CO) ₂ {P(OMe) ₃ } ₂](M = Rh or Ir) complexes. X-Ray structure of [Ir ₂ (η^5 -pz)(η^5 -SBut)(η^5 -CH ₂)I ₂ (CO) ₂ {P(OMe) ₃ } ₂](pz = pyrazolate). <i>Journal of the Chemical Society Dalton Transactions</i> , 1991, , 1391-1395.	1.1	29
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Synthesis of [Ir ₂ (μ -Pz) ₂ (CH ₃)(CO) ₂ (P ⁱ Pr ₃) ₂] ⁺ . A key intermediate in S _N 2 oxidative addition of halocarbons to dinuclear complexes. <i>Inorganic Chemistry Communication</i> , 1998, 1, 64-67.	1.8	27
39	One-Electron versus Two-Electron Mechanisms in the Oxidative Addition Reactions of Chloroalkanes to Amido-Bridged Rhodium Complexes. <i>Chemistry - A European Journal</i> , 2007, 13, 2044-2053.	1.7	26
40	Dinuclear Rhodium and Iridium Complexes with Mixed Amido/Methoxo and Amido/Hydroxo Bridges. <i>Inorganic Chemistry</i> , 2002, 41, 2348-2355.	1.9	25
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	Protonation Reactions of Dinuclear Pyrazolato Iridium(I) Complexes. <i>Inorganic Chemistry</i> , 2003, 42, 4750-4758.	1.9	25
43	Oxidative addition of I ₂ , MeI, and CH ₂ I ₂ to the naphthalene-1,8-diamide bridged complex [Ir ₂ (μ -1,8-(NH) ₂ C ₁₀ H ₆)(CO) ₂ (PPh ₃) ₂]. X-Ray crystal structure of [Ir ₂ (μ -CH ₂)(μ -1,8-(NH) ₂ C ₁₀ H ₆)(CO) ₂ (PPh ₃) ₂] \cdot CH ₂ Cl ₂ . <i>Journal of the Chemical Society Dalton Transactions</i> , 1990, 2587-2591.	1.1	24
44	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
45	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
46	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
47	Developing Synthetic Approaches with Noninnocent Metalloligands: Easy Access to Ir ⁺ /Pd ⁰ and Ir ⁺ /Pd ⁰ /Ir ⁺ Cores. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8839-8843.	7.2	23
48	MO architectures of octahedral metal clusters. <i>Inorganica Chimica Acta</i> , 1993, 213, 199-212.	1.2	22
49	Supramolecular Structures and Columnar Mesophase Induction in Nondiscoid Pyrazoles by Complexation to Rhodium(I). <i>Inorganic Chemistry</i> , 2006, 45, 10363-10370.	1.9	22
50	Formation of a Bridging-Imido d ⁶ Rhodium Compound by Nitrene Capture. Insertion and Cycloaddition Reactions. <i>Inorganic Chemistry</i> , 2008, 47, 10220-10222.	1.9	21
51	A Hexanuclear Iridium Chain. <i>Angewandte Chemie</i> , 2003, 115, 547-550.	1.6	19
52	Synthesis of Coinage Metal Cation Adducts of Nb(C ₅ H ₄ SiMe ₃) ₂ H(CO). X-ray Crystal Structure of [Nb(C ₅ H ₄ SiMe ₃) ₂ (CO)] ₂ (μ -H) ₂ CuPF ₆ . <i>Organometallics</i> , 1995, 14, 1297-1301.	1.1	17
53	Easy Access to Hydride Chemistry on a Tripodal P-Based Rhodium Scaffold. <i>Organometallics</i> , 2012, 31, 2895-2906.	1.1	16
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 ₂ (μ -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

#	ARTICLE	IF	CITATIONS
55	Snapshots of a Reversible Metal-Ligand Two-Electron Transfer Step Involving Compounds Related by Multiple Types of Isomerism. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 512-519.	1.0	15
56	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
57	Connecting C $\frac{1}{2}$ C Bonds to Tetrairidium Chains. <i>Chemistry - A European Journal</i> , 2013, 19, 4707-4711.	1.7	14
58	Extended linear metal-metal interactions in an anionic rhodium(I) complex. X-Ray structure of NMe ₄ [Rh(ox)(CO) ₂](ox = oxalato). <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 1889-1890.	2.0	13
59	Facile preparation, characterization, and X-ray crystal structure of [Ru ₃ { μ -3- η -C ₅ Me ₃ (CH ₂) ₂ }(μ -3-O)(μ -2-H)(η -5-C ₅ Me ₅) ₂ (η -2-SO ₄)], a high-valent hydrido-oxo cluster of ruthenium. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, .	2.0	13
60	Preparation, X-ray crystal and electronic structure of the novel raft cluster [NbAuH ₂ {C ₅ H ₄ (SiMe ₃) ₂ } ₃]. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 17.	2.0	13
61	Tris(pentafluorophenyl) neutral and anionic five-co-ordinate complexes of rhodium(III). Crystal structures of [Rh(C ₆ F ₅) ₃ (PEt ₃) ₂] and [Rh(C ₆ F ₅) ₃ (AsPh ₃) ₂]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1990, , 1503-1508.	1.1	13
62	Reactivity of binuclear heterobridged iridium complexes with SnCl ₂ . <i>Journal of the Chemical Society Dalton Transactions</i> , 1992, , 2389-2393.	1.1	13
63	Oxidative Addition Reactions to Novel Heterotrinary Iridium Complexes with Mixed Bridging Ligands. Crystal Structure of [Ir(μ -pz)(μ -StBu) ₂ (CO)[P(OMe) ₃] ₂ Pd]. <i>Inorganic Chemistry</i> , 1995, 34, 111-115.	1.9	13
64	Rhodium Complexes in P-H Bond Activation Reactions. <i>Chemistry - A European Journal</i> , 2019, 25, 15915-15928.	1.7	13
65	Reactivity of ruthenium and niobium trihydrides with gold fragments. Crystal structure of the hexanuclear raft cluster [Au ₃ Nb ₃ (μ -H) ₆ (η -C ₅ H ₄ SiMe ₃) ₆]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1991, , 1861-1866.	1.1	12
66	Rhodium Mediated C-H Bond Functionalisation Leading to Carboxylate Derivatives. <i>Chemistry - A European Journal</i> , 2010, 16, 11261-11265.	1.7	12
67	Rhodium and Iridium Complexes with a New Scorpionate Phosphane Ligand. <i>Inorganic Chemistry</i> , 2013, 52, 7593-7607.	1.9	12
68	Terminal Imido Rhodium Complexes. <i>Angewandte Chemie</i> , 2014, 126, 5720-5724.	1.6	12
69	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
70	Tris(diphenylthiophosphinoyl)methanide as tripod ligand in rhodium(III), iridium(III) and ruthenium(II) complexes. Crystal structures of [(η -5-C ₅ Me ₅)Ir{ η -3-(SPPH ₂) ₃ C-S,S ϵ ² ,S ϵ ³ }]BF ₄ and [(η -6-MeC ₆ H ₄ Pri)Ru{ η -3-(SPPH ₂) ₃ C-S,S ϵ ² ,S ϵ ³ }]BPh ₄ . <i>Journal of Organometallic Chemistry</i> , 1997, 545-546, 507-517.	0.8	10
71	Synthesis of the homoleptic rhodium(III) complex [Rh(C ₆ Cl ₅) ₃]. Molecular structures of [Rh(C ₆ Cl ₅) ₃] and [Rh(C ₆ Cl ₄ ϵ -C ₆ Cl ₄)(C ₆ Cl ₅)(SC ₄ H ₈) ₂]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 4211-4214.	1.1	10
72	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

#	ARTICLE	IF	CITATIONS
73	Intervalent Bis(1/4-aziridinato)M ^{II} M ^I Complexes (M=Rh, Ir): Delocalized Metallo-Radicals or Delocalized Aminyl Radicals?. Chemistry - A European Journal, 2008, 14, 10985-10998.	1.7	10
74	Binuclear pentamethylcyclopentadienyl rhodium(III) compounds with pyrazolate and thiolate bridging ligands. Journal of Organometallic Chemistry, 1998, 551, 55-65.	0.8	9
75	Pseudotetrahedral Rhodium(I) Complexes. Chemistry - A European Journal, 2014, 20, 2732-2736.	1.7	9
76	Nucleophilicity and P=C Bond Formation Reactions of a Terminal Phosphanido Iridium Complex. Inorganic Chemistry, 2016, 55, 828-839.	1.9	9
77	Rhodium Complexes Promoting C=O Bond Formation in Reactions with Oxygen: The Role of Superoxo Species. Chemistry - A European Journal, 2017, 23, 5232-5243.	1.7	9
78	Activating a Peroxo Ligand for C=O Bond Formation. Angewandte Chemie - International Edition, 2019, 58, 3037-3041.	7.2	9
79	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. Inorganic Chemistry Communication, 1999, 2, 414-418.	1.8	7
80	Aerobic Oxidation of Carbon Monoxide in a Tetrametallic Complex. Chemistry - A European Journal, 2012, 18, 15250-15253.	1.7	7
81	Pseudo-tetrahedral Rhodium and Iridium Complexes: Catalytic Synthesis of <i>E</i> -Enynes. Chemistry - A European Journal, 2018, 24, 17545-17556.	1.7	7
82	Inner-Sphere Oxygen Activation Promoting Outer-Sphere Nucleophilic Attack on Olefins. Chemistry - A European Journal, 2019, 25, 14546-14554.	1.7	7
83	Rhodium-Rhodium Bonds in Edge-Sharing Coplanar Dinuclear Complexes. Angewandte Chemie - International Edition, 2000, 39, 2336-2339.	7.2	6
84	Three-coordinate Rhodium Complexes in Low Oxidation States. Chemistry - A European Journal, 2020, 26, 3270-3274.	1.7	6
85	Agostic versus Terminal Ethyl Rhodium Complexes: A Combined Experimental and Theoretical Study. Organometallics, 2016, 35, 799-808.	1.1	5
86	Half-sandwich complexes of iridium and ruthenium containing cysteine-derived ligands. Dalton Transactions, 2017, 46, 962-976.	1.6	4
87	Half-sandwich complexes of rhodium containing cysteine-derived ligands. Dalton Transactions, 2016, 45, 14203-14215.	1.6	3
88	Activating a Peroxo Ligand for C=O Bond Formation. Angewandte Chemie, 2019, 131, 3069-3073.	1.6	2
89	Rhodium-Rhodium Bonds in Edge-Sharing Coplanar Dinuclear Complexes. Angewandte Chemie - International Edition, 2000, 39, 2336-2339.	7.2	1