

Jos A Lopez

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.

91
papers

2,473
citations

30
h-index

45
g-index

91
ext. papers

2,571
ext. citations

5.9
avg, IF

4.16
L-index

#	Paper	IF	Citations
91	Rhodium Complexes in P-C Bond Formation: Key Role of a Hydrido Ligand. <i>Journal of the American Chemical Society</i> , 2021 , 143, 349-358	16.4	3
90	Three-Coordinate Rhodium Complexes in Low Oxidation States. <i>Chemistry - A European Journal</i> , 2020 , 26, 3270-3274	4.8	4
89	Inner-Sphere Oxygen Activation Promoting Outer-Sphere Nucleophilic Attack on Olefins. <i>Chemistry - A European Journal</i> , 2019 , 25, 14546-14554	4.8	5
88	Rhodium Complexes in P-H Bond Activation Reactions. <i>Chemistry - A European Journal</i> , 2019 , 25, 15915-15928	4.8	9
87	Activating a Peroxo Ligand for C-O Bond Formation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3037-3041	16.4	5
86	Activating a Peroxo Ligand for C-D Bond Formation. <i>Angewandte Chemie</i> , 2019 , 131, 3069-3073	3.6	2
85	Pseudo-tetrahedral Rhodium and Iridium Complexes: Catalytic Synthesis of E-Enynes. <i>Chemistry - A European Journal</i> , 2018 , 24, 17545-17556	4.8	4
84	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	4.8	6
83	Half-sandwich complexes of iridium and ruthenium containing cysteine-derived ligands. <i>Dalton Transactions</i> , 2017 , 46, 962-976	4.3	3
82	Nucleophilicity and P-C Bond Formation Reactions of a Terminal Phosphanido Iridium Complex. <i>Inorganic Chemistry</i> , 2016 , 55, 828-39	5.1	7
81	Agostic versus Terminal Ethyl Rhodium Complexes: A Combined Experimental and Theoretical Study. <i>Organometallics</i> , 2016 , 35, 799-808	3.8	5
80	Half-sandwich complexes of rhodium containing cysteine-derived ligands. <i>Dalton Transactions</i> , 2016 , 45, 14203-15	4.3	3
79	Pseudotetrahedral rhodium(I) complexes. <i>Chemistry - A European Journal</i> , 2014 , 20, 2732-6	4.8	9
78	Terminal imido rhodium complexes. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5614-8	16.4	29
77	Terminal Imido Rhodium Complexes. <i>Angewandte Chemie</i> , 2014 , 126, 5720-5724	3.6	12
76	Connecting C-C bonds to tetrairidium chains. <i>Chemistry - A European Journal</i> , 2013 , 19, 4707-11	4.8	11
75	Rhodium and iridium complexes with a new scorpionate phosphane ligand. <i>Inorganic Chemistry</i> , 2013 , 52, 7593-607	5.1	11

74	Snapshots of a Reversible Metalligand Two-Electron Transfer Step Involving Compounds Related by Multiple Types of Isomerism. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 512-519	2.3	13
73	Aerobic oxidation of carbon monoxide in a tetrametallic complex. <i>Chemistry - A European Journal</i> , 2012 , 18, 15250-3	4.8	4
72	Highly luminescent half-lantern cyclometalated platinum(II) complex: synthesis, structure, luminescence studies, and reactivity. <i>Inorganic Chemistry</i> , 2012 , 51, 3427-35	5.1	89
71	Easy Access to Hydride Chemistry on a Tripodal P-Based Rhodium Scaffold. <i>Organometallics</i> , 2012 , 31, 2895-2906	3.8	14
70	Pt-Ag clusters and their neutral mononuclear Pt(II) starting complexes: structural and luminescence studies. <i>Dalton Transactions</i> , 2011 , 40, 2898-912	4.3	45
69	Developing Synthetic Approaches with Non-Innocent Metalloligands: Easy Access to IrI/Pd0 and IrI/Pd0/IrI Cores. <i>Angewandte Chemie</i> , 2011 , 123, 9001-9005	3.6	9
68	Developing synthetic approaches with non-innocent metalloligands: easy access to Ir(I)/Pd(0) and Ir(I)/Pd(0)/Ir(I) cores. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8839-43	16.4	20
67	Structural and luminescence studies on pi...pi and Pt...Pt interactions in mixed chloro-isocyanide cyclometalated platinum(II) complexes. <i>Inorganic Chemistry</i> , 2010 , 49, 3239-51	5.1	111
66	Rhodium mediated C-H bond functionalisation leading to carboxylate derivatives. <i>Chemistry - A European Journal</i> , 2010 , 16, 11261-5	4.8	12
65	Synthesis and Luminescence of Cyclometalated Compounds with Nitrile and Isocyanide Ligands. <i>Organometallics</i> , 2009 , 28, 1705-1718	3.8	89
64	Selective Hydrogenation of Cinnamaldehyde and Other π -Unsaturated Substrates Catalyzed by Rhodium and Ruthenium Complexes. <i>Organometallics</i> , 2009 , 28, 3193-3202	3.8	32
63	Formation of a bridging-imido d ⁶ rhodium compound by nitrene capture. insertion and cycloaddition reactions. <i>Inorganic Chemistry</i> , 2008 , 47, 10220-2	5.1	19
62	New water soluble and luminescent platinum(II) compounds, vapo-chromic behavior of [K(H ₂ O)][Pt(bzq)(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, 7166-76	5.1	104
61	Intervalent bis(μ -aziridinato)M(II)--M(I) complexes (M=Rh,Ir): delocalized metallo-radicals or delocalized aminyl radicals?. <i>Chemistry - A European Journal</i> , 2008 , 14, 10985-98	4.8	9
60	Stabilization of the hydroperoxido ligand: a 1 κ O,2 κ OQ ₂ bimetallic coordination mode. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2093-6	16.4	35
59	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, 2044-53	4.8	23
58	Mechanistic investigations of imine hydrogenation catalyzed by dinuclear iridium complexes. <i>Chemistry - A European Journal</i> , 2006 , 12, 4057-68	4.8	38
57	Supramolecular structures and columnar mesophase induction in nondiscoid pyrazoles by complexation to rhodium(I). <i>Inorganic Chemistry</i> , 2006 , 45, 10363-70	5.1	20

56	A Hexanuclear Iridium Chain. <i>Angewandte Chemie</i> , 2003 , 115, 547-550	3.6	14
55	A hexanuclear iridium chain. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 529-32	16.4	61
54	Protonation reactions of dinuclear pyrazolato iridium(I) complexes. <i>Inorganic Chemistry</i> , 2003 , 42, 4750-8	5.1	22
53	An investigation of the Lewis acid mediated 1,3-dipolar cycloaddition between N-benzyl-C-(2-pyridyl)nitron and allylic alcohol. Direct entry to isoxazolidinyl C-nucleosides. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 2336-42	3.9	30
52	Structural and dynamic studies on amido-bridged rhodium and iridium complexes. <i>Chemistry - A European Journal</i> , 2002 , 8, 3128-38	4.8	21
51	Dinuclear rhodium and iridium complexes with mixed amido/methoxo and amido/hydroxo bridges. <i>Inorganic Chemistry</i> , 2002 , 41, 2348-55	5.1	23
50	Diastereoselective formation of chiral iridium hydrides containing the chiral P,N-chelate ligand (4S)-2-(2-(diphenylphosphino)phenyl)-4-isopropyl-1,3-oxazoline. <i>Chemical Communications</i> , 2002 , 870-1	5.8	10
49	Discrete Mixed-Valence Metal Chains: Iridium Pyridonate Blues. <i>Angewandte Chemie</i> , 2001 , 113, 4208-4210	4.0	5
48	Discrete Mixed-Valence Metal Chains: Iridium Pyridonate Blues. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 4084-4086	16.4	40
47	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, 4785-92	5.1	13
46	New Dihydride and Alkene- π -Arene Complexes of Iridium. <i>Organometallics</i> , 2001 , 20, 2716-2724	3.8	34
45	Transmission of trans effects in dinuclear complexes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 11925-32	16.4	31
44	Rhodium-Rhodium Bonds in Edge-Sharing Coplanar Dinuclear Complexes. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 2336-2339	16.4	4
43	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	3.8	23
42	Rhodium-Rhodium Bonds in Edge-Sharing Coplanar Dinuclear Complexes 2000 , 39, 2336		1
41	The (NH ₄) 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	3.1	7
40	Rhodium(I) and Iridium(I) Complexes Containing β -Diketonate or Pyrazole Ligands. Liquid Crystal and Nonlinear Optical Properties. <i>Inorganic Chemistry</i> , 1999 , 38, 3085-3092	5.1	29
39	C-H Bond Activations by New Labile π -Arene Complexes of Iridium. <i>Journal of the American Chemical Society</i> , 1999 , 121, 10632-10633	16.4	22

38	Labile Hydrido Complexes of Iridium(III): Synthesis, Dynamic Behavior in Solution, and Reactivity toward Alkenes. <i>Organometallics</i> , 1999 , 18, 3534-3546	3.8	38
37	Encapsulation of Thallium(I) by Tetranuclear Rhodium or Iridium Complexes: Synthesis and Molecular Structure of Heterobimetallic Complexes Stabilized by s ₂ f ₈ Bonding Interactions. <i>Inorganic Chemistry</i> , 1999 , 38, 2482-2488	5.1	25
36	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 (Et,4-DA)(CO) ₂ (PPh ₃) ₂] (1,4-H ₂ DA = 1,4-diaminoanthraquinone). <i>Inorganica Chimica Acta</i> , 1998 , 274, 15-23	2.7	14
35	Binuclear Oxidative Addition of Hydrogen in Diamidonaphthalene-Bridged Diiridium Complexes. <i>Chemistry - A European Journal</i> , 1998 , 4, 1398-1410	4.8	41
34	Rhodium and Iridium Pyrazolato Blues. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 1542-1545	16.4	40
33	Binuclear pentamethylcyclopentadienyl rhodium(III) compounds with pyrazolate and thiolate bridging ligands. <i>Journal of Organometallic Chemistry</i> , 1998 , 551, 55-65	2.3	9
32	Synthesis of [Ir ₂ (EPz) ₂ (CH ₃)(CO) ₂ (PiPr 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	3.1	25
31	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 (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		10
30	Cooperative Bimetallic Effects on New Iridium(III) Pyrazolate Complexes: Hydrogen-Hydrogen, Carbon-Hydrogen, and Carbon-Chlorine Bond Activations. <i>Organometallics</i> , 1998 , 17, 683-696	3.8	74
29	Unusual Tautomers in Dinuclear Metal Chemistry and Their Role in Oxidative-Addition Reactions of Chlorocarbons. <i>Organometallics</i> , 1998 , 17, 1449-1451	3.8	19
28	(Pyrazolato)gold Complexes Showing Room-Temperature Columnar Mesophases. Synthesis, Properties, and Structural Characterization. <i>Inorganic Chemistry</i> , 1998 , 37, 2960-2967	5.1	84
27	Rhodium Dithiocarbamate Compounds as Metalloligands: A Controlled Way for the Construction of Binuclear Complexes. <i>Inorganic Chemistry</i> , 1998 , 37, 824-829	5.1	21
26	Synthesis and Reactivity of Mononuclear (Pentachlorophenyl)rhodium(II) Complexes. Structural Relevance of Rhodium- π -Chlorine Secondary Bonding. <i>Organometallics</i> , 1997 , 16, 1026-1036	3.8	32
25	New Perspective on the Formation and Reactivity of Metal-Metal-Bonded Dinuclear Rhodium and Iridium Complexes. <i>Organometallics</i> , 1997 , 16, 4718-4727	3.8	31
24	Tris(diphenylthiophosphinoyl)methanide as tripod ligand in rhodium(III), iridium(III) and ruthenium(II) complexes. Crystal structures of [(η -C ₅ Me ₅)Ir(η -SPPPh ₂) ₃ C-S,S',S'']BF ₄ and [(η -MeC ₆ H ₄ Pri)Ru(η -SPPPh ₂) ₃ C-S,S',S'']BPh ₄ . <i>Journal of Organometallic Chemistry</i> , 1997 , 545-546, 507-517	2.3	9
23	Dynamic Behavior, Redistribution Reactions, and Intermetallic Distances of Dinuclear Bis(η pyrazolato)rhodium(I) Complexes. <i>Organometallics</i> , 1996 , 15, 2967-2978	3.8	46
22	Chiral rhodium complexes as catalysts in Diels-Alder reactions. <i>Chemical Communications</i> , 1996 , 1247-1248	4.8	50
21	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 Cu]PF ₆ . <i>Organometallics</i> , 1995 , 14, 1297-1301	3.8	14

20	Oxidation of Substrates by an Iridium Dioxxygen 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	3.8	28
19	Oxidative Addition Reactions to Novel Heterotrinnuclear Iridium Complexes with Mixed Bridging Ligands. Crystal Structure of $[\{\text{Ir}(\mu\text{-pz})(\mu\text{-StBu})\text{I}_2(\text{CO})[\text{P}(\text{OMe})_3]\}_2\text{Pd}]$. <i>Inorganic Chemistry</i> , 1995 , 34, 111-115	5.1	11
18	Structural and NMR spectroscopic characterization of $\eta\text{-Benzyl}$ palladium(II) complexes. <i>Journal of Organometallic Chemistry</i> , 1994 , 483, 77-89	2.3	37
17	A pictorial MO description of Buckminsterfullerene and its interactions with transition metal fragments. <i>Journal of Organometallic Chemistry</i> , 1994 , 478, 161-171	2.3	30
16	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	5.1	20
15	Nucleophilic attack at the central allyl carbon atom in $[(\eta\text{-3-allyl})\text{ML}_2]^+$ complexes (M = palladium, platinum). Experimental facts and new theoretical insights. <i>Organometallics</i> , 1993 , 12, 3019-3028	3.8	40
14	MO architectures of octahedral metal clusters. <i>Inorganica Chimica Acta</i> , 1993 , 213, 199-212	2.7	19
13	Reactivity of binuclear heterobridged iridium complexes with SnCl_2 . <i>Journal of the Chemical Society Dalton Transactions</i> , 1992 , 2389-2393		13
12	Synthesis, molecular structure, and reactivity of octahedral alkylhydridoosmium(II) complexes $[\text{OsH}(\text{R})(\text{CO})_2(\text{PRQ})_2]$. <i>Organometallics</i> , 1992 , 11, 2034-2043	3.8	68
11	Oxidative-addition reactions of MeI or CH_2I_2 to $[\text{M}_2(\eta\text{-pz})(\eta\text{-SBut})(\text{CO})_2\{\text{P}(\text{OMe})_3\}_2]$ (M = Rh or Ir) complexes. X-Ray structure of $[\text{Ir}_2(\eta\text{-pz})(\eta\text{-SBut})(\eta\text{-CH}_2)\text{I}_2(\text{CO})_2\{\text{P}(\text{OMe})_3\}_2]$ (pz = pyrazolate). <i>Journal of the Chemical Society Dalton Transactions</i> , 1991 , 1391-1395		28
10	Reactivity of ruthenium and niobium trihydrides with gold fragments. Crystal structure of the hexanuclear raft cluster $[\text{Au}_3\text{Nb}_3(\eta\text{-H})_6(\eta\text{-C}_5\text{H}_4\text{SiMe}_3)_6]$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1991 , 1861-1866		10
9	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	16.4	67
8	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	3.8	43
7	Synthesis, reactivity, molecular structure, and catalytic activity of the novel dichlorodihydroosmium(IV) complexes $\text{OsH}_2\text{Cl}_2(\text{PR}_3)_2$ (PR ₃ = P-i-Pr ₃ , PMe-t-Bu ₂). <i>Inorganic Chemistry</i> , 1991 , 30, 288-293	5.1	165
6	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	5.1	40
5	Facile preparation, characterization, and X-ray crystal structure of $[\text{Ru}_3\{\eta\text{-3-}\eta\text{-C}_5\text{Me}_3(\text{CH}_2)_2\}(\eta\text{-O})(\eta\text{-H})(\eta\text{-C}_5\text{Me}_5)_2(\eta\text{-SO}_4)]$, a high-valent hydrido-oxo cluster of ruthenium. <i>Journal of the Chemical Society Chemical Communications</i> , 1990 , 958-959		13
4	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		9
3	Oxidative addition of I_2 , MeI , and CH_2I_2 to the naphthalene-1,8-diamide bridged complex $[\text{Ir}_2\{\eta\text{-1,8-(NH)}_2\text{C}_{10}\text{H}_6\}(\text{CO})_2(\text{PPh}_3)_2]$. X-Ray crystal structure of $[\text{Ir}_2\{\eta\text{-CH}_2\}(\eta\text{-1,8-(NH)}_2\text{C}_{10}\text{H}_6\}(\text{CO})_2(\text{PPh}_3)_2][\text{CH}_2\text{Cl}_2]$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1990 , 2587-2591		22

- 2 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 $[\text{Rh}(\text{C}_6\text{F}_5)_3(\text{AsPh}_3)_2]$. *Journal of the Chemical Society Dalton Transactions*, **1990**, 1503-1508 12
- 1 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). *Journal of the Chemical Society Chemical Communications*, **1989**, 1889-1890 12