

M Victoria JimÃ©nez

List of Publications by Year in descending order

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201674

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#	ARTICLE	IF	CITATIONS
1	Rhodium(I) Complexes with Hemilabile N-Heterocyclic Carbenes: Efficient Alkyne Hydrosilylation Catalysts. <i>Organometallics</i> , 2008, 27, 224-234.	2.3	177
2	Iridium(I) Complexes with Hemilabile N-Heterocyclic Carbenes: Efficient and Versatile Transfer Hydrogenation Catalysts. <i>Organometallics</i> , 2011, 30, 5493-5508.	2.3	132
3	Oxidation and α -Alkylation of Alcohols Catalysed by Iridium(I) Complexes with Functionalised N-Heterocyclic Carbene Ligands. <i>Chemistry - A European Journal</i> , 2015, 21, 17877-17889.	3.3	103
4	Hydrodesulfurization (HDS) Model Systems. Opening, Hydrogenation, and Hydrodesulfurization of Dibenzothiophene (DBT) at Iridium. First Case of Catalytic HDS of DBT in Homogeneous Phase. <i>Organometallics</i> , 1995, 14, 2342-2352.	2.3	81
5	Enhanced Hydrogen-Transfer Catalytic Activity of Iridium N-Heterocyclic Carbenes by Covalent Attachment on Carbon Nanotubes. <i>ACS Catalysis</i> , 2013, 3, 1307-1317.	11.2	77
6	Homogeneous Reactions of Thiophenes with Transition Metals: A Modeling Approach for Elucidation of the Hydrodesulfurization Mechanism and an Effective Method for the Synthesis of Unusual Organosulfur Compounds. <i>Journal of the American Chemical Society</i> , 1995, 117, 4333-4346.	13.7	73
7	The Catalytic Transformation of Benzo[b]thiophene to 2-Ethylthiophenol by a Soluble Rhodium Complex: The Reaction Mechanism Involves Ring Opening Prior to Hydrogenation. <i>Journal of the American Chemical Society</i> , 1995, 117, 8567-8575.	13.7	68
8	Reactions of Diamidonaphthalene-Bridged Diiridium Tetrahydrides with Alkynes: α -Hydrogenation, Vinylidene Formation, and Catalytic C-C Coupling. <i>Organometallics</i> , 2005, 24, 2722-2729.	2.3	65
9	Competitive Reaction Pathways in the Addition of Phenylacetylene to Diamidonaphthalene-Bridged Diiridium Complexes. <i>Organometallics</i> , 1999, 18, 1125-1136.	2.3	56
10	Cationic Rhodium Complexes with Hemilabile Phosphine Ligands as Polymerization Catalyst for High Molecular Weight Stereoregular Poly(phenylacetylene). <i>Macromolecules</i> , 2009, 42, 8146-8156.	4.8	53
11	Hydrosilylation of Terminal Alkynes Catalyzed by a ONO-Pincer Iridium(III) Hydride Compound: Mechanistic Insights into the Hydrosilylation and Dehydrogenative Silylation Catalysis. <i>Organometallics</i> , 2016, 35, 2410-2422.	2.3	52
12	Binuclear Oxidative Addition of Hydrogen in Diamidonaphthalene-Bridged Diiridium Complexes. <i>Chemistry - A European Journal</i> , 1998, 4, 1398-1410.	3.3	44
13	Mechanistic Insights into Transfer Hydrogenation Catalysis by $[\text{Ir}(\text{cod})(\text{NHC})_2]^+$ Complexes with Functionalized N-Heterocyclic Carbene Ligands. <i>Organometallics</i> , 2015, 34, 926-940.	2.3	41
14	Synthesis and Reactivity of Mononuclear (Pentachlorophenyl)rhodium(II) Complexes. Structural Relevance of Rhodium π -o-Chlorine Secondary Bonding. <i>Organometallics</i> , 1997, 16, 1026-1036.	2.3	40
15	C-S Bond Scission of Substituted Thiophenes at Rhodium. Factors Influencing the Regioselectivity of the Insertion and the Stability of the Resulting Metalathiacycles. <i>Organometallics</i> , 1995, 14, 3196-3202.	2.3	38
16	Key Factors Determining the Course of Methyl Iodide Oxidative Addition to Diamidonaphthalene-Bridged Diiridium(I) and Dirhodium(I) Complexes. <i>Inorganic Chemistry</i> , 2000, 39, 4868-4878.	4.0	36
17	Convenient Methods for the Synthesis of a Library of Hemilabile Phosphines. <i>Synthesis</i> , 2009, 2009, 1916-1922.	2.3	34
18	A Paramagnetic, Mononuclear Organometallic Iridium(II) Complex: $[\text{Ir}(\text{C}_6\text{Cl}_5)_2(\text{cod})]$. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 1527-1529.	4.4	33

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19	A homoleptic mononuclear iridium(II) organometallic complex: synthesis and x-ray structure of [Ir(C6Cl5)4]2-. <i>Organometallics</i> , 1993, 12, 4660-4663.	2.3	33
20	Ci—H bond activation of thiophenes at iridium: a lower energy process than Ci—S bond scission. <i>Journal of Organometallic Chemistry</i> , 1995, 504, 27-31.	1.8	33
21	Like on Heterogeneous Hydrodesulfurization(HDS) Catalysts, the Homogeneous HDS of Benzo[b]thiophene Is Achieved by the Concomitant Action of a Metal Promoter(Rh) and an Active HDS Component(W). <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 1706-1708.	4.4	32
22	Transmission of Trans Effects in Dinuclear Complexes. <i>Journal of the American Chemical Society</i> , 2001, 123, 11925-11932.	13.7	32
23	Sequential C—H Activation and Dinuclear Insertion of Ethylene Promoted by a Diiridium Complex. <i>Journal of the American Chemical Society</i> , 2002, 124, 752-753.	13.7	32
24	Graphene—NHC—iridium hybrid catalysts built through —OH covalent linkage. <i>Carbon</i> , 2015, 83, 21-31.	10.3	31
25	Mimicking the HDS Activity of Promoted Tungsten Catalysts. A Homogeneous Modeling Study Using a Two-Component Tungsten/Rhodium System. <i>Organometallics</i> , 1997, 16, 5696-5705.	2.3	29
26	Mechanistic studies on the N-alkylation of amines with alcohols catalysed by iridium(I) complexes with functionalised N-heterocyclic carbene ligands. <i>Catalysis Science and Technology</i> , 2018, 8, 2381-2393.	4.1	29
27	Paramagnetic mononuclear rhodium(II) organometallic complexes. X-ray structure of [Rh(C6Cl5)2[P(OPh)3]2]. <i>Organometallics</i> , 1993, 12, 3257-3263.	2.3	28
28	$\hat{\eta}^2$ -(Z) Selectivity Control by Cyclometalated Rhodium(III)—Triazolylidene Homogeneous and Heterogeneous Terminal Alkyne Hydrosilylation Catalysts. <i>ACS Catalysis</i> , 2020, 10, 13334-13351.	11.2	28
29	Hybrid Catalysts Comprised of Graphene Modified with Rhodium-Based N-Heterocyclic Carbenes for Alkyne Hydrosilylation. <i>ACS Applied Nano Materials</i> , 2020, 3, 1640-1655.	5.0	27
30	Effective N-methylation of nitroarenes with methanol catalyzed by a functionalized NHC-based iridium catalyst: a green approach to N-methyl amines. <i>Catalysis Science and Technology</i> , 2020, 10, 3458-3467.	4.1	26
31	Redox-Induced Conversion Pathways in Rhodium and Iridium Complexes Containing C-S Bond Cleaved Benzo[b]thiophene. <i>Organometallics</i> , 1995, 14, 4390-4401.	2.3	25
32	Effect of structural differences of carbon nanotubes and graphene based iridium-NHC materials on the hydrogen transfer catalytic activity. <i>Carbon</i> , 2016, 96, 66-74.	10.3	25
33	Experimental and Theoretical Mechanistic Investigation on the Catalytic CO ₂ Hydrogenation to Formate by a Carboxylate-Functionalized Bis(N-heterocyclic carbene) Zwitterionic Iridium(I) Compound. <i>Organometallics</i> , 2018, 37, 684-696.	2.3	25
34	Unsaturated iridium pyridinedicarboxylate pincer complexes with catalytic activity in borylation of arenes. <i>Dalton Transactions</i> , 2011, 40, 8429.	3.3	24
35	Carboxylate-Assisted $\hat{\eta}^2$ -(Z) Stereoselective Hydrosilylation of Terminal Alkynes Catalyzed by a Zwitterionic Bis-NHC Rhodium(III) Complex. <i>ACS Catalysis</i> , 2020, 10, 7367-7380.	11.2	24
36	Rational design of efficient rhodium catalysts for the anti-markovnikov oxidative amination of styrene. <i>Chemical Communications</i> , 2010, 46, 5322.	4.1	23

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37	Metal Activation of Dibenzo[b,d]thiophene. Reactivity of the C-S Insertion Product [MeC(CH ₂ PPh ₂) ₃]IrH(η ² (C,S)-C ₁₂ H ₈ S). <i>Organometallics</i> , 1995, 14, 4850-4857.	2.3	22
38	Synthesis and Reactivity of Mononuclear Anionic Pentafluorophenyl Compounds of Rhodium(I) and Iridium(I). X-ray Structure of [P(OPh) ₃] ₂ (C ₆ F ₅) ₂ RhAg(PPh ₃)]. <i>Inorganic Chemistry</i> , 1995, 34, 2153-2159.	4.0	22
39	Branched Poly(phenylacetylene). <i>Macromolecules</i> , 2010, 43, 6278-6283.	4.8	20
40	Enhancing the hydrogen transfer catalytic activity of hybrid carbon nanotube-based NHC-iridium catalysts by increasing the oxidation degree of the nanosupport. <i>Catalysis Science and Technology</i> , 2016, 6, 5504-5514.	4.1	20
41	Mechanistic Insights on the Functionalization of CO ₂ with Amines and Hydrosilanes Catalyzed by a Zwitterionic Iridium Carboxylate-Functionalized Bis-NHC Catalyst. <i>ChemCatChem</i> , 2019, 11, 5524-5535.	3.7	20
42	Unsaturated Iridium(III) Complexes Supported by a Quinolato-Carboxylato ONO Pincer-Type Ligand: Synthesis, Reactivity, and Catalytic C-H Functionalization. <i>Organometallics</i> , 2013, 32, 6918-6930.	2.3	19
43	Rhodium-Assisted Transformations of Substituted Thiophenes into Butadienyl Methyl Sulfides. <i>Organometallics</i> , 1995, 14, 4858-4864.	2.3	17
44	Alkene C-H Activations at Dinuclear Complexes Promoted by Oxidation. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1208-1211.	13.8	17
45	Zwitterionic Rhodium and Iridium Complexes Based on a Carboxylate Bridge-Functionalized Bis-N-heterocyclic Carbene Ligand: Synthesis, Structure, Dynamic Behavior, and Reactivity. <i>Inorganic Chemistry</i> , 2018, 57, 5526-5543.	4.0	17
46	Thiophene C-S bond cleavage by rhodium and iridium. An unprecedented bridging mode of the open C ₄ H ₄ S fragment. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 921-922.	2.0	16
47	Molecular water oxidation catalysis by zwitterionic carboxylate bridge-functionalized bis-NHC iridium complexes. <i>Catalysis Science and Technology</i> , 2019, 9, 1437-1450.	4.1	16
48	Copper-Catalyzed Azide-Alkyne Cycloaddition (CuAAC) by Functionalized NHC-Based Polynuclear Catalysts: Scope and Mechanistic Insights. <i>Organometallics</i> , 2022, 41, 2154-2169.	2.3	16
49	Mechanistic Studies on the Catalytic Oxidative Amination of Alkenes by Rhodium(I) Complexes with Hemilabile Phosphines. <i>ChemCatChem</i> , 2013, 5, 263-276.	3.7	14
50	Tris(pentafluorophenyl) neutral and anionic five-coordinate 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
51	Hydride Mobility in Trinuclear Sulfido Clusters with the Core [Rh ₃ (μ ₄ -H)(μ ₃ -S) ₂]: Molecular Models for Hydrogen Migration on Metal Sulfide Hydrotreating Catalysts. <i>Chemistry - A European Journal</i> , 2011, 17, 8115-8128.	3.3	13
52	On the Synthesis and Chemical Behaviour of the Elusive Bis(hydrosulfido)-bridged Dinuclear Rhodium(I) Complexes [Rh(μ ₄ -SH)(CO)(PR ₃) ₃] ₂ . <i>Chemistry - A European Journal</i> , 2009, 15, 12212-12222.	3.3	12
53	Rhodium(I) Complexes with Hemilabile Phosphines: Rational Design for Efficient Oxidative Amination Catalysts. <i>ChemCatChem</i> , 2012, 4, 1298-1310.	3.7	12
54	Ein paramagnetischer, einkerniger metallorganischer Iridium(II)-Komplex: [Ir(C ₆ Cl ₅) ₂ (cod)]. <i>Angewandte Chemie</i> , 1992, 104, 1512-1514.	2.0	11

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55	ONO Dianionic Pincer-Type Ligand Precursors for the Synthesis of η^5 -Cyclooctenyl Iridium(III) Complexes: Formation Mechanism and Coordination Chemistry. <i>Organometallics</i> , 2013, 32, 6903-6917.	2.3	11
56	Dinuclear Phosphine-Amido $[\text{Rh}_2(\text{diene})\{\frac{1}{4}\text{-NH}(\text{CH}_2)_3\text{PPh}_2\}_2]$ Complexes as Efficient Catalyst Precursors for Phenylacetylene Polymerization. <i>Organometallics</i> , 2019, 38, 1991-2006.	2.3	11
57	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 $[\text{Rh}(\text{C}_6\text{Cl}_4\text{-}\mu\text{-C}_6\text{Cl}_4)(\text{C}_6\text{Cl}_5)(\text{SC}_4\text{H}_8)_2]$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 4211-4214.	1.1	10
58	Heterodinuclear Iridium Cyclooctadiene Complexes with the $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\eta^6\text{-}(1,1\text{-di}(2\text{-propenyl})\text{-3-butenyl})\text{benzene})_2]^+$ Ligand. <i>Organometallics</i> , 2002, 21, 326-330.	2.3	10
59	Mechanistic Investigation on the Polymerization of Phenylacetylene by 2-Diphenylphosphinopyridine Rhodium(I) Catalysts: Understanding the Role of the Cocatalyst and Alkynyl Intermediates. <i>Organometallics</i> , 2018, 37, 2778-2794.	2.3	10
60	Enhanced Chemical and Electrochemical Water Oxidation Catalytic Activity by Hybrid Carbon Nanotube-Based Iridium Catalysts Having Sulfonate-Functionalized NHC ligands. <i>ACS Applied Energy Materials</i> , 2019, 2, 3283-3296.	5.1	10
61	Dinuclear pentafluorophenyl compounds of rhodium(III) with anionic bridging ligands. Molecular structures of $[\text{P}(\text{CH}_2\text{Ph})\text{Ph}_3]_2[\{\text{Rh}(\text{C}_6\text{F}_5)_3\}_2(\mu\text{-SCN})_2]$ and $[\text{P}(\text{CH}_2\text{Ph})\text{Ph}_3]_2[\{\text{Rh}(\text{C}_6\text{F}_5)_3\}_2(\mu\text{-CO}_3)]$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1995, , 917-925.	1.1	9
62	Steric Effects in the Oxidative Addition of MeI to a Sulfido-Bridged ZrRh_2 Early- μ -Late Heterobimetallic Compound. <i>Organometallics</i> , 2012, 31, 6395-6407.	2.3	9
63	Catalytic applications of zwitterionic transition metal compounds. <i>Dalton Transactions</i> , 2021, , .	3.3	9
64	Influence of graphene sheet properties as supports of iridium-based N-heterocyclic carbene hybrid materials for water oxidation electrocatalysis. <i>Journal of Organometallic Chemistry</i> , 2020, 919, 121334.	1.8	8
65	Polymerization of phenylacetylene catalyzed by rhodium(N -functionalized N-heterocyclic carbene ligands. <i>Polymer Chemistry</i> , 2022, 13, 1411-1421.	3.9	7
66	Synthesis and characterization of heterobimetallic complexes containing C-S cleaved thiophenes. <i>Inorganica Chimica Acta</i> , 1998, 272, 55-61.	2.4	6
67	C^{\sim}C Formation and C^{\sim}O Cleavage Reactions on Hemilabile Arene- μ -Phosphine Ligands in Route to η^5 -Cyclohexadienyl Iridium Compounds. <i>Organometallics</i> , 2008, 27, 4229-4237.	2.3	5
68	Synthesis, structure, and kinetic studies on $[\text{RuCl}_2(\text{NCCH}_3)_2(\text{cod})]$. <i>Journal of Coordination Chemistry</i> , 2012, 65, 2981-2991.	2.2	5
69	N -Methylation of Amines with Methanol Catalyzed by Iridium(I) Complexes Bearing an N,O-Functionalized NHC Ligand. <i>Organometallics</i> , 2022, 41, 1364-1380.	2.3	5
70	Synthesis and dynamic behaviour of zwitterionic $[\text{M}(\eta^6\text{-C}_6\text{H}_5\text{-BPh}_3)(\text{coe})_2]$ (M = Rh, Ir) cyclooctene complexes. <i>Dalton Transactions</i> , 2014, 43, 14778-14786.	3.3	4
71	Bis(hydrosulfido)-bridged dinuclear rhodium(N) complexes as a platform for the synthesis of trinuclear sulfido aggregates with the core $[\text{MRh}_2(\mu_3\text{-S}_2)]$ (M =) <i>ETC</i> , 2013, 1, 0.784314	1.0	1
72	Local structure of Iridium organometallic catalysts covalently bonded to carbon nanotubes.. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012052.	0.4	1