Maria L Buil

List of Publications by Year
in descending order

47 papers	1,776 citations	186265 28 h-index	265206 42 g-index
48 all docs	48 docs citations	48 times ranked	1193 citing authors

#	Article	IF	Citations
1	Osmium Catalyst for the Borrowing Hydrogen Methodology: Î±-Alkylation of Arylacetonitriles and Methyl Ketones. ACS Catalysis, 2013, 3, 2072-2075.	11.2	142
2	Dehalogenation and Hydrogenation of Aromatic Compounds Catalyzed by Nanoparticles Generated from Rhodium Bis(imino)pyridine Complexes. Organometallics, 2010, 29, 4375-4383.	2.3	84
3	Understanding the Formation of Nâˆ’H Tautomers from Î±-Substituted Pyridines:Â Tautomerization of 2-Ethylpyridine Promoted by Osmium. Journal of the American Chemical Society, 2007, 129, 10998-10999.	13.7	75
4	Reactions of New Osmiumâˆ’Dihydride Complexes with Terminal Alkynes:Â Metallacyclopropene versus Metalâˆ’Carbyne. Influence of the Alkyne Substituent. Organometallics, 1999, 18, 4949-4959.	2.3	74
5	C_{Î²}(sp²)âˆ’H Bond Activation of Î±,Î²-Unsaturated Ketones Promoted by a Hydride-Elongated Dihydrogen Complex: Formation of Osmafuran Derivatives with Carbene, Carbyne, and NH-Tautomerized Î±-Substituted Pyridine Ligands. Organometallics, 2008, 27, 4680-4690.	2.3	70
6	Hydrideâˆ’Hydroxyosmacyclopropene versus Hydrideâˆ’Hydroxycarbyne and Cyclic Hydroxycarbene:â€‰ Influence of the Substituents at the C(OH) Carbon Atom of the Carbon Donor Ligand. Organometallics, 2000, 19, 2184-2193.	2.3	68
7	A Four-Electron Ï€-Alkyne Complex as Precursor for Allenylidene Derivatives:Â Preparation, Structure, and Reactivity of [Os(Î·5-C5H5)(CCCPh2)L(PiPr3)]PF6(L = CO, PHPh2). Organometallics, 2004, 23, 5787-5798.	2.3	57
8	The Os(CO)(PiPr3)2Unit as a Support for the Transformation of Two Alkyne Molecules into New Organometallic Ligands. Organometallics, 1997, 16, 3169-3177.	2.3	56
9	Displacement of Phenyl and Styryl Ligands by Benzophenone Imine and 2-Vinylpyridine on Ruthenium and Osmium. Organometallics, 2006, 25, 3076-3083.	2.3	56
10	Selective Hydration of Nitriles to Amides Promoted by an Osâ€“NHC Catalyst: Formation and X-ray Characterization of Î²2-Amidate Intermediates. Organometallics, 2012, 31, 6861-6867.	2.3	56
11	Oxidative Addition of Group 14 Element Hydrido Compounds to OsH2(Î·2-CH2CHEt)(CO)(PiPr3)2:Â Synthesis and Characterization of the First Trihydridoâˆ’Silyl, Trihydridoâˆ’Germyl, and Trihydridoâˆ’Stannyl Derivatives of Osmium(IV). Inorganic Chemistry, 1996, 35, 1250-1256.	4.0	52
12	From Tetrahydroborateâˆ’ to Aminoborylvinylideneâˆ’Osmium Complexes via Alkynylâˆ’Aminoboryl Intermediates. Journal of the American Chemical Society, 2011, 133, 2250-2263.	13.7	47
13	Synthesis and Characterization of Rutheniumâˆ’Osmium Complexes Containing Î¼-Bisalkenyl, Î¼-Alkenylvinylidene, and Î¼-Alkenylcarbene Bridge Ligands. Organometallics, 1999, 18, 1798-1800.	2.3	44
14	Ene-Type Reactions between an Î±-Alkenylphosphine and Terminal Alkynes Promoted by Osmium-Cyclopentadienyl Fragments. Organometallics, 2005, 24, 2030-2038.	2.3	44
15	Preparation and X-ray Structures of Alkylâˆ’Titanium(IV) Complexes Stabilized by Indenyl Ligands with a Pendant Ether or Amine Substituent and Their Use in the Catalytic Hydroamination of Alkynes. Organometallics, 2007, 26, 554-565.	2.3	44
16	A new combination of donor and acceptor: bis(Î·6-benzene)chromium and hexafluorobenzene form a charge-transfer stacked crystal. Chemical Communications, 1999, , 1027-1028.	4.1	43
17	Câˆ’N and Câˆ’C Coupling Reactions:â€‰ Preparation of New N-Heterocyclic Ruthenium Derivatives. Organometallics, 2003, 22, 162-171.	2.3	42
18	Dehydrogenation of a Coordinated Alkylphosphine as a Method to Prepare Cyclopentadienyl-Î±-alkenylphosphine-osmium Complexes. Organometallics, 2004, 23, 1416-1423.	2.3	42

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19	Five-Coordinate Complexes MHCl(CO)(PiPr3)2(M = Os, Ru) as Precursors for the Preparation of New Hydridoâ˜' and Alkenylâ˜'Metallothiol and Monothioâ˜'Î²-Diketonato Derivatives. Organometallics, 1997, 16, 5748-5755.	2.3	41
20	Câ˜'C Coupling of the Alkynyl and Alkenyl Fragments of Os(C2CO2CH3){CHCHC(O)OCH3}(CO)(PiPr3)2by Action of HCl:A The Vinylidene [Os{CHCHC(O)OCH3}(CCHCO2CH3)(CO)(PiPr3)2]BF4as Intermediate. Organometallics, 1999, 18, 5176-5179.	2.3	41
21	Regioselective Addition of Dienes to the CÎ²â˜'CÎ³Double Bond of the Allenylidene Ligand of [Ru(Î·5-C5H5)(CCCPh2)(CO)(PiPr3)]BF4. Organometallics, 2002, 21, 1841-1848.	2.3	41
22	Synthesis and Protonation of the Dithioformato Complex OsH(.eta.2-S2CH)(CO)(PiPr3)2. Organometallics, 1994, 13, 3746-3748.	2.3	38
23	Square-Planar Alkylidyneâ€"Osmium and Five-Coordinate Alkylideneâ€"Osmium Complexes: Controlling the Transformation from Hydride-Alkylidyne to Alkylidene. Journal of the American Chemical Society, 2016, 138, 9720-9728.	13.7	34
24	Preparation of Half-Sandwich Alkylâ˜'Titanium(IV) Complexes Stabilized by a Cyclopentadienyl Ligand with a Pendant Phosphine Tether and Their Use in the Catalytic Hydroamination of Aliphatic and Aromatic Alkynes. Organometallics, 2006, 25, 4079-4089.	2.3	33
25	Osmium Catalysts for Acceptorless and Base-Free Dehydrogenation of Alcohols and Amines: Unusual Coordination Modes of a BPI Anion. Organometallics, 2018, 37, 603-617.	2.3	33
26	Preparation and Characterization of 4-Azoniaheptatrienyl, 4-Azaheptatrienyl, Ruthenapyrrolinone, and Pyrrolinyl Complexes of Ruthenium. Organometallics, 2003, 22, 5274-5284.	2.3	30
27	Cationic Dihydride Boryl and Dihydride Silyl Osmium(IV) NHC Complexes: A Marked Diagonal Relationship. Organometallics, 2013, 32, 2744-2752.	2.3	29
28	Hydroboration and Hydrogenation of an Osmiumâ€"Carbon Triple Bond: Osmium Chemistry of a Bis-Ïƒ-Borane. Organometallics, 2015, 34, 547-550.	2.3	29
29	HÂ·Â·Â·H Interaction in Four-Membered Pâ˜'HÂ·Â·Â·Hâ˜'M (M = Osmium, Ruthenium) Rings. Organometallics, 1998, 17, 3346-3355.	2.3	28
30	Câ˜'C Bond Activation of the NHC Ligand of an Osmiumâ˜'Amido Complex. Organometallics, 2010, 29, 4517-4523.	2.3	25
31	Synthesis and Structure of Ru{Ph6Sn3(.mu.-OMe)2}(.eta.2-H2)(CO)(PiPr3) Containing a Tridentate Tin Donor Ligand and Coordinated Dihydrogen. Journal of the American Chemical Society, 1995, 117, 3619-3620.	13.7	24
32	An Entry to Stable Mixed Phosphineâ€"Osmiumâ€"NHC Polyhydrides. Inorganic Chemistry, 2016, 55, 5062-5070.	4.0	24
33	Recent Advances in Synthesis of Molecular Heteroleptic Osmium and Iridium Phosphorescent Emitters. European Journal of Inorganic Chemistry, 2021, 2021, 4731-4761.	2.0	23
34	Perfluoro-tagged rhodium and ruthenium nanoparticles immobilized on silica gel as highly active catalysts for hydrogenation of arenes under mild conditions. New Journal of Chemistry, 2013, 37, 278-282.	2.8	22
35	The Cyclopentadienyl-Osmium Moiety as Template for the Formation of a Dihydronaphthylphosphine by Coupling between Phenylacetylene and an Î±-Alkenylphosphine. Organometallics, 2005, 24, 5180-5183.	2.3	21
36	Osmiumâ˜'Alkenylcarbyne and â˜'Alkenylcarbene Complexes with an Steroid Skeleton: Formation of a Testosterone Organometallic Derivative Containing the 7H-Amino Adenine Tautomer. Organometallics, 2009, 28, 5691-5696.	2.3	20

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37	Reactions of OsH2(Î·2â^'CH2=CHEt)(CO)(PiPr3)2 with unsaturated organic molecules. Journal of Organometallic Chemistry, 1997, 545-546, 495-506.	1.8	19
38	Dicationic Alkylideneâ^', Olefinâ^', and Alkoxyalkenylcarbeneâ^'Osmium Complexes Stabilized by a NHC Ligand. Organometallics, 2010, 29, 876-882.	2.3	17
39	Unprecedented Addition of Tetrahydroborate to an Osmiumâ€"Carbon Triple Bond. Organometallics, 2014, 33, 2689-2692.	2.3	17
40	Alternative Conceptual Approach to the Design of Bifunctional Catalysts: An Osmium Germylene System for the Dehydrogenation of Formic Acid. Inorganic Chemistry, 2021, 60, 16860-16870.	4.0	17
41	Dehydrogenative Addition of Aldehydes to a Mixed NHC-Osmium-Phosphine Hydroxide Complex: Formation of Carboxylate Derivatives. Organometallics, 2016, 35, 2171-2173.	2.3	16
42	Nâ€"H and Câ€"H Bond Activations of an Isoindoline Promoted by Iridium- and Osmium-Polyhydride Complexes: A Noninnocent Bridge Ligand for Acceptorless and Base-Free Dehydrogenation of Secondary Alcohols. Organometallics, 2020, 39, 2719-2731.	2.3	14
43	Trapping of a 12-Valence-Electron Osmium Intermediate. Organometallics, 2009, 28, 4606-4609.	2.3	12
44	Synthesis and characterization of (PPr3i)2(CO)HRu(Î¼-H)- (Î¼-OMe)Ir(cod): an unusual example of a heterometallic complex containing a mixed hydridoâ€"alkoxide bridge. New Journal of Chemistry, 1999, 23, 403-406.	2.8	9
45	Dissimilarity in the Chemical Behavior of Osmaoxazolium Salts and Osmaoxazoles: Two Different Aromatic Metalladiheterocycles. Organometallics, 2021, 40, 4150-4162.	2.3	9
46	Preparation and Degradation of Rhodium and Iridium Diolefin Catalysts for the Acceptorless and Base-Free Dehydrogenation of Secondary Alcohols. Organometallics, 2021, 40, 989-1003.	2.3	7
47	Alkynyl Ligands as Building Blocks for the Preparation of Phosphorescent Iridium(III) Emitters: Alternative Synthetic Precursors and Procedures. Inorganic Chemistry, 2022, 61, 9019-9033.	4.0	7