

Jesus Campos

List of Publications by Year in descending order

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91
papers

2,868
citations

172457

29
h-index

189892

50
g-index

104
all docs

104
docs citations

104
times ranked

2807
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient selective and atom economic catalytic conversion of glycerol to lactic acid. <i>Nature Communications</i> , 2014, 5, 5084.	12.8	207
2	Living Polymerization of Ethylene and Copolymerization of Ethylene/Methyl Acrylate Using σ -Sandwich Diimine Palladium Catalysts. <i>ACS Catalysis</i> , 2015, 5, 456-464.	11.2	163
3	Methanol Dehydrogenation by Iridium N-Heterocyclic Carbene Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 5079-5084.	4.0	146
4	Bimetallic cooperation across the periodic table. <i>Nature Reviews Chemistry</i> , 2020, 4, 696-702.	30.2	119
5	A stable heavier group 14 analogue of vinylidene. <i>Nature Chemistry</i> , 2016, 8, 1022-1026.	13.6	110
6	Dihydrogen and Acetylene Activation by a Gold(I)/Platinum(0) Transition Metal Only Frustrated Lewis Pair. <i>Journal of the American Chemical Society</i> , 2017, 139, 2944-2947.	13.7	106
7	Electrochemical Activation of Cp* Iridium Complexes for Electrode-Driven Water-Oxidation Catalysis. <i>Journal of the American Chemical Society</i> , 2014, 136, 13826-13834.	13.7	105
8	A Systematic Study of Structure and C-H Bond Activation Chemistry by Sterically Encumbered Germylene Complexes. <i>Chemistry - A European Journal</i> , 2016, 22, 11685-11698.	3.3	94
9	Catalytic C-N Dehydrogenation Using Frustrated Lewis Pairs: Evidence for a Chain-Growth Coupling Mechanism. <i>Journal of the American Chemical Society</i> , 2016, 138, 3306-3309.	13.7	82
10	Hydrogen-Transfer Catalysis with Cp*Ir ^{III} Complexes: The Influence of the Ancillary Ligands. <i>ACS Catalysis</i> , 2014, 4, 99-108.	11.2	81
11	Facile Reversibility by Design: Tuning Small Molecule Capture and Activation by Single Component Frustrated Lewis Pairs. <i>Journal of the American Chemical Society</i> , 2015, 137, 12227-12230.	13.7	75
12	Catalyst Activation by Loss of Cyclopentadienyl Ligands in Hydrogen Transfer Catalysis with Cp*Ir ^{III} Complexes. <i>ACS Catalysis</i> , 2014, 4, 973-985.	11.2	68
13	A Cationic Rh(III) Complex That Efficiently Catalyzes Hydrogen Isotope Exchange in Hydrosilanes. <i>Journal of the American Chemical Society</i> , 2010, 132, 16765-16767.	13.7	60
14	Catalytic Borylation using an Air-Stable Zinc Boryl Reagent: Systematic Access to Elusive Acylboranes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14159-14163.	13.8	55
15	Selective catalytic oxidation of sugar alcohols to lactic acid. <i>Green Chemistry</i> , 2015, 17, 594-600.	9.0	52
16	Stable Iridium(IV) Complexes of an Oxidation-Resistant Pyridine-Alkoxide Ligand: Highly Divergent Redox Properties Depending on the Isomeric Form Adopted. <i>Journal of the American Chemical Society</i> , 2015, 137, 7243-7250.	13.7	51
17	Reactivity of Cationic Agostic and Carbene Structures Derived from Platinum(II) Metallacycles. <i>Chemistry - A European Journal</i> , 2015, 21, 8883-8896.	3.3	45
18	Cationic Ir(III) Alkylidenes Are Key Intermediates in C-H Bond Activation and C-C Bond-Forming Reactions. <i>Journal of the American Chemical Society</i> , 2012, 134, 7165-7175.	13.7	44

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19	Probing the Viability of Oxo-Coupling Pathways in Iridium-Catalyzed Oxygen Evolution. <i>Organometallics</i> , 2013, 32, 5384-5390.	2.3	42
20	A Carbene-Rich but Carbonyl-Poor [Ir ₆ (IME) ₈ (CO) ₂ H ₁₄] ²⁺ Polyhydride Cluster as a Deactivation Product from Catalytic Glycerol Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12808-12811.	13.8	42
21	Synthesis and Reactivity of a Cationic Platinum(II) Alkylidene Complex. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8255-8258.	13.8	40
22	Cooperativity in Transition Metal Tetraylene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 3488-3498.	2.0	40
23	Cobalt Boryl Complexes: Enabling and Exploiting Migratory Insertion in Base-Metal-Mediated Borylation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9586-9590.	13.8	38
24	Electronic Delocalization in Two and Three Dimensions: Differential Aggregation in Indium- α -Metalloid-Clusters. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15098-15102.	13.8	37
25	Evidence for Genuine Bimetallic Frustrated Lewis Pair Activation of Dihydrogen with Gold(I)/Platinum(0) Systems. <i>Chemistry - A European Journal</i> , 2020, 26, 5982-5993.	3.3	37
26	Methyl-, Ethenyl-, and Ethynyl-Bridged Cationic Digold Complexes Stabilized by Coordination to a Bulky Terphenylphosphine Ligand. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15379-15384.	13.8	34
27	Mechanism of Hydrogenolysis of an Iridium-Methyl Bond: Evidence for a Methane Complex Intermediate. <i>Journal of the American Chemical Society</i> , 2013, 135, 1217-1220.	13.7	33
28	Cyclometalated Iridium Complexes of Bis(Aryl) Phosphine Ligands: Catalytic C-H/C-D Exchanges and C-C Coupling Reactions. <i>Inorganic Chemistry</i> , 2013, 52, 6694-6704.	4.0	32
29	A full set of iridium(^{iv}) pyridine-alkoxide stereoisomers: highly geometry-dependent redox properties. <i>Chemical Science</i> , 2017, 8, 1642-1652.	7.4	32
30	Rhodium and Iridium Complexes of Bulky Tertiary Phosphine Ligands. Searching for Isolable Cationic MIII Alkylidenes. <i>Organometallics</i> , 2015, 34, 2212-2221.	2.3	30
31	Synthesis, properties, and some rhodium, iridium, and platinum complexes of a series of bulky m-terphenylphosphine ligands. <i>Polyhedron</i> , 2016, 116, 170-181.	2.2	28
32	Activation of Protic, Hydridic and Apolar E-H Bonds by a Boryl-Substituted Ge ^{II} Cation. <i>Chemistry - A European Journal</i> , 2020, 26, 306-315.	3.3	27
33	Rhodium-Catalyzed, Efficient Deutero- and Tritiosilylation of Carbonyl Compounds from Hydrosilanes and Deuterium or Tritium. <i>Organic Letters</i> , 2011, 13, 5236-5239.	4.6	26
34	Reactivity of a gold(ⁱ)/platinum(0) frustrated Lewis pair with germanium and tin dihalides. <i>Dalton Transactions</i> , 2019, 48, 9127-9138.	3.3	26
35	Large-scale preparation and labelling reactions of deuterated silanes. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2012, 55, 29-38.	1.0	25
36	Metal-free amidation of ether sp ³ C-H bonds with sulfonamides using Ph(OAc) ₂ . <i>RSC Advances</i> , 2014, 4, 47951-47957.	3.6	23

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37	Methyl Complexes of the Transition Metals. Chemistry - A European Journal, 2016, 22, 6432-6457.	3.3	23
38	Base-Promoted, Remote C-H Activation at a Cationic (Ir ⁵⁺ -C ₅ Me ₅)Ir(III) Center Involving Reversible C-C Bond Formation of Bound C ₅ Me ₅ . Journal of the American Chemical Society, 2019, 141, 2205-2210.	13.7	22
39	Metal-only Lewis Pairs of Rhodium with <i>s</i> -, <i>p</i> - and <i>d</i> -Block Metals. Chemistry - A European Journal, 2020, 26, 16833-16845.	3.3	22
40	Cyclometallation and Hydrogen/Deuterium Exchange Reactions of an Arylphosphine Ligand upon Coordination to {Ir ⁵⁺ -C ₅ Me ₅ }. Chemistry - A European Journal, 2010, 16, 419-422.	3.3	21
41	Synthetic, structural and reaction chemistry of N-heterocyclic germylene and stannylene compounds featuring <i>N</i> -boryl substituents. Dalton Transactions, 2019, 48, 11951-11960.	3.3	21
42	Evaluating stereoelectronic properties of bulky dialkylterphenyl phosphine ligands. Journal of Organometallic Chemistry, 2019, 896, 120-128.	1.8	21
43	Cooperative activation of X-H (X = H, C, O, N) bonds by a Pt(0)/Ag metal-only Lewis pair. Chemical Communications, 2019, 55, 8812-8815.	4.1	21
44	Gel-assisted crystallization of [Ir ₄ (Ime) ₇ (CO)H ₁₀] ²⁺ and [Ir ₄ (Ime) ₈ H ₉] ³⁺ clusters derived from catalytic glycerol dehydrogenation. Dalton Transactions, 2015, 44, 18403-18410.	3.3	20
45	Tuning Activity and Selectivity during Alkyne Activation by Gold(I)/Platinum(0) Frustrated Lewis Pairs. Organometallics, 2020, 39, 2534-2544.	2.3	20
46	Reactivity of [Pt(P ^t Bu) ₃] ₂ with Zinc(I/II) Compounds: Bimetallic Adducts, Zn-Zn Bond Cleavage, and Cooperative Reactivity. Organometallics, 2021, 40, 1113-1119.	2.3	18
47	Excited-state hydrogen atom abstraction initiates the photochemistry of ̂ ² -2-deoxycytidine. Chemical Science, 2015, 6, 2035-2043.	7.4	17
48	Reversible Hydride Migration from C ₅ Me ₅ to Rh ^I Revealed by a Cooperative Bimetallic Approach. Angewandte Chemie - International Edition, 2020, 59, 20863-20867.	13.8	17
49	Reaction of [TpRh(C ₂ H ₄) ₂] with Dimethyl Acetylenedicarboxylate: Identification of Intermediates of the [2+2+2] Alkyne and Alkyne-Ethylene Cyclo(c)trimerizations. Chemistry - A European Journal, 2016, 22, 13715-13723.	3.3	16
50	Nacnac Stabilized Tetrelenes: Formation of an N-P-Heterocyclic Germylene via C-C Bond Insertion. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 1238-1242.	1.2	15
51	Dicoordinate Au(I)-Ethylene Complexes as Hydroamination Catalysts. ACS Catalysis, 2022, 12, 4227-4241.	11.2	15
52	Synthesis and reactivity of half-sandwich (̂ ⁵ -C ₅ Me ₅)Ir(III) complexes of a cyclometallated aryl phosphine ligand. New Journal of Chemistry, 2011, 35, 2122.	2.8	14
53	A Cationic Terminal Methylene Complex of Ir(I) Supported by a Pincer Ligand. Organometallics, 2013, 32, 3423-3426.	2.3	14
54	Electronic Delocalization in Two and Three Dimensions: Differential Aggregation in Indium Metalloid-Clusters. Angewandte Chemie, 2017, 129, 15294-15298.	2.0	14

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55	Ligand Rearrangement and Hemilability in Rhodium(I) and Iridium(I) Complexes Bearing Terphenyl Phosphanes. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2309-2321.	2.0	13
56	Controlling Catenation in Germanium(II) Chemistry through Hemilability. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15606-15612.	13.8	12
57	A dicoordinate gold(λ^2 -ethylene complex. <i>Chemical Communications</i> , 2021, 57, 9280-9283.	4.1	12
58	Reactivity of a trans-[Mo μ -Mo] unit towards alkenes and alkynes: bimetallic migratory insertion, H-elimination and other reactions. <i>Chemical Communications</i> , 2018, 54, 9186-9189.	4.1	11
59	Evidence for Genuine Bimetallic Frustrated Lewis Pair Activation of Dihydrogen with Gold(I)/Platinum(0) Systems. <i>Chemistry - A European Journal</i> , 2020, 26, 5915-5915.	3.3	11
60	An Unsaturated Four-Coordinate Dimethyl Dimolybdenum Complex with a Molybdenum-Molybdenum Quadruple Bond. <i>Chemistry - A European Journal</i> , 2017, 23, 194-205.	3.3	10
61	Cationic (λ^5 -C μ -Me μ -R)Rh ^{III} Complexes with Metalated Aryl Phosphines Featuring λ^4 -Phosphorus plus Pseudo-Allylic Coordination. <i>Organometallics</i> , 2018, 37, 11-21.	2.3	10
62	Dehydrogenative Double C-H Bond Activation in a Germylene-Rhodium Complex**. <i>Chemistry - A European Journal</i> , 2021, 27, 16422-16428.	3.3	10
63	A Carbene-Rich but Carbonyl-Poor [Ir ₆ (IME) ₈ (CO) ₂ H ₁₄] ²⁺ Polyhydride Cluster as a Deactivation Product from Catalytic Glycerol Dehydrogenation. <i>Angewandte Chemie</i> , 2014, 126, 13022-13025.	2.0	9
64	Synthesis of new heteroscorpionate iridium(λ^1) and iridium(λ^3) complexes. <i>Dalton Transactions</i> , 2015, 44, 6987-6998.	3.3	8
65	The neutron diffraction structure of [Ir ₄ (IME) ₈ H ₁₀] ²⁺ polyhydride cluster: Testing the computational hydride positional assignments. <i>Journal of Organometallic Chemistry</i> , 2017, 849-850, 17-21.	1.8	8
66	A Combined Experimental/Computational Study of the Mechanism of a Palladium-Catalyzed Bora-Negishi Reaction. <i>Chemistry - A European Journal</i> , 2017, 23, 12655-12667.	3.3	8
67	Supported σ -Complexes of Li-C Bonds from Coordination of Monomeric Molecules of LiCH ₃ , LiCH ₂ CH ₃ and LiC ₆ H ₅ to Mo μ -Mo Bonds. <i>Angewandte Chemie - International Edition</i> , 2021, , e202116009.	13.8	8
68	Unmasking the constitution and bonding of the proposed lithium nickelate σ -Li ₃ NiPh ₃ (solv) ₃ revealing the hidden C ₆ H ₄ ligand. <i>Chemical Science</i> , 2022, 13, 5268-5276.	7.4	8
69	Structural Snapshots of σ -Arene Bonding in a Gold Germylene Cation. <i>Chemistry - A European Journal</i> , 2020, 26, 15519-15523.	3.3	7
70	Reductive C-C Coupling from Molecular Au(I) Hydrocarbyl Complexes: A Mechanistic Study. <i>Journal of the American Chemical Society</i> , 2021, 143, 2509-2522.	13.7	7
71	Coordination of LiH Molecules to Mo μ -Mo Bonds: Experimental and Computational Studies on Mo ₂ LiH ₂ , Mo ₂ Li ₂ H ₄ , and Mo ₆ Li ₉ H ₁₈ Clusters. <i>Journal of the American Chemical Society</i> , 2021, 143, 5222-5230.	13.7	7
72	Co(II), a catalyst for selective conversion of phenyl rings to carboxylic acid groups. <i>RSC Advances</i> , 2014, 4, 49395-49399.	3.6	6

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73	Experimental and Computational Studies on Quadruply Bonded Dimolybdenum Complexes with Terminal and Bridging Hydride Ligands. <i>Chemistry - A European Journal</i> , 2021, 27, 6569-6578.	3.3	6
74	Controlling Catenation in Germanium(I) Chemistry through Hemilability. <i>Angewandte Chemie</i> , 2021, 133, 15734-15740.	2.0	6
75	Mechanistic Investigations on Hydrogenation, Isomerization and Hydrosilylation Reactions Mediated by a Germyl- ρ -Rhodium System. <i>ChemCatChem</i> , 2022, 14, .	3.7	5
76	Reversible Hydride Migration from C ₅ Me ₅ to Rh I Revealed by a Cooperative Bimetallic Approach. <i>Angewandte Chemie</i> , 2020, 132, 21049-21053.	2.0	4
77	Bimetallic frustrated Lewis pairs. <i>Advances in Organometallic Chemistry</i> , 2021, , 95-148.	1.0	4
78	Borylated N-heterocyclic Carbenes: Rearrangement and Chemical Trapping. <i>Chemistry - A European Journal</i> , 2019, 25, 2556-2568.	3.3	3
79	Mn ^I complex redox potential tunability by remote lewis acid interaction. <i>Dalton Transactions</i> , 2020, 49, 16623-16626.	3.3	3
80	A Versatile Approach to Access Trimetallic Complexes Based on Trisphosphinite Ligands. <i>Molecules</i> , 2020, 25, 593.	3.8	3
81	Coordination of E=C Bonds (E = Zn, Mg, Al) and the Zn-H Bonds of (C ₅ Me ₅)ZnH and (C ₅ Me ₅)ZnZnH across a Quadruply Bonded Dimolybdenum Dihydride Complex. <i>Organometallics</i> , 2022, 41, 3225-3236.	2.3	3
82	Distortional Effects of Noncovalent Interactions in the Crystal Lattice of a Cp*Ir(III) Acylhydroxamic Acid Complex: A Joint Experimental-Computational Study. <i>Organometallics</i> , 2014, 33, 4417-4424.	2.3	2
83	Isomerization of a cationic (1-5-C ₅ Me ₅)Ir(III) complex involving remote C=C and C-H bond formation. <i>Polyhedron</i> , 2021, 207, 115363.	2.2	2
84	Frustrated Lewis Pairs Based on Transition Metals. <i>Molecular Catalysis</i> , 2021, , 319-359.	1.3	2
85	Enhanced Dihydrogen Activation by Mononuclear Iridium(II) Compounds: A Mechanistic Study. <i>Angewandte Chemie - International Edition</i> , 0, , .	13.8	2
86	Dehydrogenation of alcohols and polyols from a hydrogen production perspective. <i>ChemistrySelect</i> , 2018, 3, .	1.5	1
87	7. Dehydrogenation of alcohols and polyols from a hydrogen production perspective. , 2018, , 231-270.		0
88	Supported Ir-C Complexes of Li-C Bonds from Coordination of Monomeric Molecules of LiCH ₃ , LiCH ₂ CH ₃ and LiC ₆ H ₅ to Mo-Mo Bonds. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0
89	Frustrated Lewis Pair Systems. , 2022, , .		0
90	Cover Feature: Mechanistic Investigations on Hydrogenation, Isomerization and Hydrosilylation Reactions Mediated by a Germyl- ρ -Rhodium System (ChemCatChem 15/2022). <i>ChemCatChem</i> , 2022, 14, .	3.7	0

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91	Enhanced Dihydrogen Activation by Mononuclear Iridium(II) Compounds: A Mechanistic Study. Angewandte Chemie, 0, , .	2.0	0