

Jose Oscar Carlos Jimenez-Halla

List of Publications by Year in descending order

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94
papers

3,297
citations

126708

33
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168136

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107
all docs

107
docs citations

107
times ranked

2292
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-free binding and coupling of carbon monoxide at a boron–boron triple bond. <i>Nature Chemistry</i> , 2013, 5, 1025-1028.	6.6	165
2	B ₁₉ ⁺ : An Aromatic Wankel Motor. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5668-5671.	7.2	162
3	Nucleus-independent chemical shift (NICS) profiles in a series of monocyclic planar inorganic compounds. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 4359-4366.	0.8	155
4	An Isolable Radical Anion Based on the Borole Framework. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2977-2980.	7.2	131
5	Metal-Mediated Synthesis of 1,4-Di-tert-butyl-1,4-azaborine. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10034-10037.	7.2	117
6	The Synthesis of B ₂ (SIDip) ₂ and its Reactivity Between the Diboracumulenic and Diborynic Extremes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13801-13805.	7.2	117
7	A Critical Assessment of the Performance of Magnetic and Electronic Indices of Aromaticity. <i>Symmetry</i> , 2010, 2, 1156-1179.	1.1	115
8	CAI ₄ Be and CAI ₃ Be ⁺ : global minima with a planar pentacoordinate carbon atom. <i>Chemical Communications</i> , 2010, 46, 8776.	2.2	104
9	Direct Synthetic Route to Functionalized 1,2-Azaborinines. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3500-3504.	7.2	86
10	A Test to Evaluate the Performance of Aromaticity Descriptors in All-Metal and Semimetal Clusters. An Appraisal of Electronic and Magnetic Indicators of Aromaticity. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1118-1130.	2.3	84
11	Not All That Has a Negative NICS Is Aromatic: The Case of the H-Bonded Cyclic Trimer of HF. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1131-1135.	2.3	81
12	CO ₂ Binding and Splitting by Boron–Boron Multiple Bonds. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5947-5951.	7.2	74
13	Is it Possible To Synthesize a Neutral Noble Gas Compound Containing a Ng–Ng Bond? A Theoretical Study of H–Ng–Ng–F (Ng=Ar, Kr, Xe). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 366-369.	7.2	65
14	1-Heteroaromatic-Substituted Tetraphenylboroles: π – π Interactions Between Aromatic and Antiaromatic Rings Through a B–C Bond. <i>Journal of the American Chemical Society</i> , 2012, 134, 20169-20177.	6.6	65
15	Observation of Elementary Steps in the Catalytic Borane Dehydrocoupling Reaction. <i>Chemistry - A European Journal</i> , 2012, 18, 8605-8609.	1.7	62
16	Unusual Electrocyclic Rearrangements with Group 14 Element Compounds: Reversible Isomerization of a π -Aromatic Digermyl Complex with Carbon–Carbon and Germanium–Germanium Multiple Bond Cleavage. <i>Journal of the American Chemical Society</i> , 2011, 133, 180-183.	6.6	46
17	Platinum Complexes Containing Pyramidalized Germanium and Tin Dihalide Ligands Bound through π – π M–E Multiple Bonds. <i>Chemistry - A European Journal</i> , 2014, 20, 16888-16898.	1.7	46
18	Interactions of Isonitriles with Metal–Boron Bonds: Insertions, Coupling, Ring Formation, and Liberation of Monovalent Boron. <i>Chemistry - A European Journal</i> , 2016, 22, 11736-11744.	1.7	46

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19	Scalar and Spin-Orbit Relativistic Corrections to the NICS and the Induced Magnetic Field: The case of the E ₁₂ ²⁺ Spherenes (E = Ge, Sn, Pb). <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2701-2705.	2.3	44
20	Tuning aromaticity in trigonal alkaline earth metal clusters and their alkali metal salts. <i>Journal of Computational Chemistry</i> , 2009, 30, 2764-2776.	1.5	43
21	Phosphine Adducts of 1,2-Dibromo-1,2-dimesityldiborane(4): Between Bridging Halides and Rearrangement Processes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6267-6271.	7.2	43
22	Radon hydrides: structure and bonding. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2222-2227.	1.3	40
23	Metathesis Reactions of a Manganese Borylene Complex with Polar Heteroatom-Carbon Double Bonds: A Pathway to Previously Inaccessible Carbene Complexes. <i>Journal of the American Chemical Society</i> , 2013, 135, 8726-8734.	6.6	40
24	Practical, mild and efficient electrophilic bromination of phenols by a new I(III)-based reagent: the PIDA-AlBr ₃ system. <i>RSC Advances</i> , 2018, 8, 17806-17812.	1.7	40
25	A theoretical study of the aromaticity in neutral and anionic borole compounds. <i>Dalton Transactions</i> , 2015, 44, 6740-6747.	1.6	37
26	Single and double activation of acetone by isolobal Bi ₂ N and Bi ₂ B triple bonds. <i>Chemical Science</i> , 2018, 9, 5354-5359.	3.7	37
27	CO ₂ -Fixierung und Spaltung durch unpolare Mehrfachbindungen. <i>Angewandte Chemie</i> , 2018, 130, 6055-6059.	1.6	36
28	Dialumination of unsaturated species with a reactive bis(cyclopentadienyl) dialane. <i>Chemical Communications</i> , 2018, 54, 1639-1642.	2.2	34
29	Coordination and Haptotropic Migration of Cr(CO) ₃ in Polycyclic Aromatic Hydrocarbons: The Effect of the Size and the Curvature of the Substrate. <i>Journal of Physical Chemistry A</i> , 2008, 112, 1202-1213.	1.1	33
30	Catalytic Tuning of a Phosphinoethane Ligand for Enhanced C-H Activation. <i>Journal of the American Chemical Society</i> , 2008, 130, 13051-13058.	6.6	33
31	σ-Donor-π-Acceptor plumblylene ligands: synergic σ-donation between ambiphilic Pt ⁰ and Pb ^{II} fragments. <i>Chemical Communications</i> , 2012, 48, 10410.	2.2	33
32	Half-Sandwich Complexes of an Extremely Electron-Donating, Redox-Active Ir ⁶⁺ -Diborabenzene Ligand. <i>Journal of the American Chemical Society</i> , 2018, 140, 848-853.	6.6	33
33	Nucleophilic addition and substitution at coordinatively saturated boron by facile 1,2-hydrogen shuttling onto a carbene donor. <i>Chemical Science</i> , 2017, 8, 7066-7071.	3.7	32
34	Gold(I)-catalysed high-yielding synthesis of indenenes by direct C _{sp3} -H bond activation. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7330-7335.	1.5	32
35	Intramolecular Haptotropic Rearrangements of the Tricarbonylchromium Complex in Small Polycyclic Aromatic Hydrocarbons. <i>Organometallics</i> , 2008, 27, 5230-5240.	1.1	31
36	Iodine(III)-Catalyzed Electrophilic Nitration of Phenols via Non-Brønsted Acidic NO ₂ ⁺ Generation. <i>Organic Letters</i> , 2019, 21, 1315-1319.	2.4	31

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37	Reactivity of Boryl Complexes: Synthesis and Structure of New Neutral and Cationic Platinum Boryls and Borylenes. <i>Organometallics</i> , 2012, 31, 1897-1907.	1.1	30
38	Trapping of a Borirane Intermediate in the Reductive Coupling of an Arylborane to a Diborene. <i>Journal of the American Chemical Society</i> , 2020, 142, 5562-5567.	6.6	28
39	On the nature of the transition metal–main group metal bond: synthesis and theoretical calculations on iridium gallyl complexes. <i>Dalton Transactions</i> , 2010, 39, 10588.	1.6	26
40	Dötz Benzannulation Reactions: Heteroatom and Substituent Effects in Chromium Fischer Carbene Complexes. <i>Chemistry - A European Journal</i> , 2009, 15, 12503-12520.	1.7	21
41	Complexation and Release of N-Heterocyclic Carbene-Aminoborylene Ligands from Group VI and VIII Metals. <i>Journal of the American Chemical Society</i> , 2018, 140, 10524-10529.	6.6	21
42	Mechanism of the Aminolysis of Fischer Alkoxy and Thiocarbene Complexes: A DFT Study. <i>Journal of Organic Chemistry</i> , 2010, 75, 5821-5836.	1.7	19
43	Synthesis of 2-julolidin-imidazo[1,2-a]pyridines via Groebke–Blackburn–Bienaymé reaction and studies of optical properties. <i>New Journal of Chemistry</i> , 2017, 41, 3450-3459.	1.4	19
44	Alkylideneborate zwitterions and C–C coupling by atypical diboration of electron-rich alkynes. <i>Chemical Communications</i> , 2017, 53, 12132-12135.	2.2	18
45	Transition–Metal–Ligand of a Tetrahalodiborane. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 412-416.	7.2	18
46	Maximizing Coordinative and Electronic Unsaturation: Three–Coordinate Dicationic Platinum Complexes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2981-2984.	7.2	17
47	A Combined Experimental and Theoretical Study on the Isomers of 2,3,4,5–Tetracarba–nido–Hexaborane(6) Derivatives and Their Photophysical Properties. <i>Chemistry - A European Journal</i> , 2015, 21, 210-218.	1.7	17
48	Synthesis of 2-Tetrazolylmethyl-isoindolin-1-ones via a One-Pot Ugi-Azide/(N-Acylation)/exo-Diels–Alder/Dehydration Process. <i>ACS Omega</i> , 2016, 1, 943-951.	1.6	17
49	Reactivity of Tetrahalo- and Difluorodiboranes(4) toward Lewis Basic Platinum(0): Bis(boryl), Borylborato, and Doubly Boryl-Bridged Platinum Complexes. <i>Journal of the American Chemical Society</i> , 2018, 140, 13056-13063.	6.6	17
50	Lewis–Base–Induced Disproportionation of a Dialane. <i>Chemistry - A European Journal</i> , 2018, 24, 11795-11802.	1.7	17
51	Spontaneous trans–Selective Transfer Hydrogenation of Apolar Boron–Boron Double Bonds. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9782-9786.	7.2	16
52	Reactivity of TpRu(L)(NCMe)R (L=CO, PMe ₃ ; R=Me, Ph) systems with isonitriles: Experimental and computational studies toward the intra- and intermolecular hydroarylation of isonitriles. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 2175-2186.	0.8	15
53	New seven membered palladacycles: C–Br bond activation of 2-bromo-pyridine derivative by Pd(II). <i>Dalton Transactions</i> , 2011, 40, 12450.	1.6	15
54	Cleavage of BN triple bonds by main group reagents. <i>Chemical Communications</i> , 2018, 54, 8210-8213.	2.2	15

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55	Heteroleptic [Cr(η^5 -Cp)(η^5 -HfCp)](η^6 -Cp*HfCp). Chemistry - A European Journal, 2013, 19, 270-281.	1.7	14
56	Reactions of diborenes with terminal alkynes: mechanisms of ligand-controlled <i>anti</i> -selective hydroalkynylation, cycloaddition and C \equiv C triple bond scission. Chemical Science, 2021, 12, 9506-9515.	3.7	14
57	Evidence for Borylene Carbonyl (LHB \cdot C \equiv O) and Base-Stabilized (LHB \cdot O) and Base-Free Oxoborane (RB \cdot O) Intermediates in the Reactions of Diborenes with CO ₂ . Journal of the American Chemical Society, 2022, 144, 3376-3380.	6.6	14
58	Organomagnesium clusters: Structure, stability, and bonding in archetypal models. Journal of Organometallic Chemistry, 2011, 696, 4104-4111.	0.8	13
59	The role of the metal in the dual-metal catalysed hydrophenoxylation of diphenylacetylene. Catalysis Science and Technology, 2018, 8, 3638-3648.	2.1	13
60	Diaryliodonium(III) salts in one-pot double functionalization of C \equiv H and <i>ortho</i> -C \equiv H bonds. Organic and Biomolecular Chemistry, 2022, 20, 3231-3248.	1.5	13
61	Simultaneous Fragmentation and Activation of White Phosphorus. Chemistry - A European Journal, 2013, 19, 9114-9117.	1.7	12
62	Selective reaction route in the construction of the pyrrolo[3,4-b]pyridin-5-one core from a variety of 5-aminooxazoles and maleic anhydride. A DFT study. Tetrahedron Letters, 2016, 57, 3496-3500.	0.7	12
63	The Diaryliodonium(III) Salts Reaction With Free-Radicals Enables One-Pot Double Arylation of Naphthols. Frontiers in Chemistry, 2020, 8, 563470.	1.8	12
64	Regiospecific synthesis of 1-acetamide-5-methoxy-2-oxindoles in two steps: (Ugi-SN2)/xanthate mediated free radical cyclization. Tetrahedron Letters, 2014, 55, 6567-6570.	0.7	11
65	A metal-mediated boron-centred isomerisation reaction via C \equiv H activation. Chemical Communications, 2015, 51, 16569-16572.	2.2	11
66	Direct Conversion from Terminal Borylene into Terminal Phosphinidene. Angewandte Chemie - International Edition, 2016, 55, 12673-12677.	7.2	11
67	Facile reactions of gold(III) complexes with tri(<i>tert</i> -butyl)azadiboriridine. Dalton Transactions, 2018, 47, 5181-5188.	1.6	11
68	Computational Study of the Mechanism and Selectivity of Palladium-Catalyzed Propargylic Substitution with Phosphorus Nucleophiles. Chemistry - A European Journal, 2012, 18, 12424-12436.	1.7	10
69	Spontane <i>trans</i> -selektive Transferhydrierung von unpolaren B=C-Doppelbindungen. Angewandte Chemie, 2019, 131, 9884-9889.	1.6	10
70	Synthesis of novel polysubstituted N-benzyl-1H-pyrroles via a cascade reaction of alkynyl Fischer carbenes with α -imino glycine methyl esters. Organic and Biomolecular Chemistry, 2015, 13, 11753-11760.	1.5	9
71	DFT study of substituent effects in the hydroxylation of methane and toluene mediated by an ethylbenzene dehydrogenase active site model. Journal of Organometallic Chemistry, 2018, 864, 44-49.	0.8	9
72	A Simple and Efficient Method for the Partial Synthesis of Pure (3R,3 β -TM \cdot S)-Astaxanthin from (3R,3 β -TM \cdot R,6 α -TM \cdot R)-Lutein and Lutein Esters via (3R,3 β -TM \cdot S)-Zeaxanthin and Theoretical Study of Their Formation Mechanisms. Molecules, 2019, 24, 1386.	1.7	9

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73	Synthesis and characterization of a pair of O- <i>fac</i> /O- <i>mer</i> 12-P-6 alkyloxaphosphates with a Pâ€‘Oâ€‘C four-membered ring. <i>Chemical Science</i> , 2019, 10, 3466-3472.	3.7	9
74	Bismuth subsalicylate, a low-toxicity catalyst for the ring-opening polymerization (ROP) of <i>l</i> -lactide (<i>l</i> -LA) with aliphatic diol initiators: synthesis, characterization, and mechanism of initiation. <i>RSC Advances</i> , 2020, 10, 30815-30824.	1.7	9
75	Towards Dual-Metal Catalyzed Hydroalkoxylation of Alkynes. <i>Catalysts</i> , 2021, 11, 704.	1.6	9
76	Coordination of bis(tricarbonylchromium) complexes to small polycyclic aromatic hydrocarbons: Structure, relative stabilities, and bonding. <i>Chemical Physics Letters</i> , 2008, 465, 181-189.	1.2	7
77	Direkte Umwandlung eines terminalen Borylenâ€‘in einen terminalen Phosphinidenkomplex. <i>Angewandte Chemie</i> , 2016, 128, 12864-12868.	1.6	7
78	Ãœbergangsmetallâ€‘Komplexierung eines Tetrahalogenidborans. <i>Angewandte Chemie</i> , 2018, 130, 419-423.	1.6	7
79	Synthesis and characterization of segmented poly(ester-urethane)s (PEUs) containing carotenoids. <i>Polymer Chemistry</i> , 2019, 10, 6580-6587.	1.9	7
80	A novel coordination mode of Pt^{II} -N-Br-pyridylbenz-(imida, oxa or othia)-zole to Pt(<i>ii</i>): synthesis, characterization, electrochemical and structural analysis. <i>RSC Advances</i> , 2019, 9, 14033-14039.	1.7	6
81	Synthesis, stereoisomerism and crystal structures of neutral hexacoordinate silicon(IV) complexes with Salen-O,N,N,O and thiocyanato-N ligands. <i>Inorganica Chimica Acta</i> , 2015, 428, 93-99.	1.2	4
82	Back to basics: identification of reaction intermediates in the mechanism of a classic ligand substitution reaction on Vaska's complex. <i>RSC Advances</i> , 2016, 6, 3386-3392.	1.7	4
83	Unexpected reactivity of pyridinium salts toward alkynyl Fischer complexes to produce <i>oxo</i> â€‘heterocycles. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4202.	1.7	4
84	Synthesis and Isolation of an Anionic Bis(dipyrido-annulated) N-Heterocyclic Carbene CCC-Pincer Iridium(III) Complex by Facile Câ€‘H Bond Activation. <i>Inorganic Chemistry</i> , 2021, 60, 9970-9976.	1.9	4
85	Proton to hydride umpolung at a phosphonium center <i>via</i> electron relay: a new strategy for main-group based water reduction. <i>Chemical Science</i> , 2021, 12, 15603-15608.	3.7	4
86	Synthesis of benzo-fused spiropiperidines through a regioselective free radical-mediated cyclization as key step: a suitable alternative towards the lead 5-HT_1 receptor ligand L-687384. <i>Monatshefte fÃ¼r Chemie</i> , 2015, 146, 987-995.	0.9	3
87	Microwave-Assisted Synthesis and Characterization of $[\text{Rh}_2(\text{OAc})_4(\text{L})_2]$ Paddlewheel Complexes: A Joint Experimental and Computational Study. <i>International Journal of Inorganic Chemistry</i> , 2017, 2017, 1-12.	0.6	3
88	Borylâ€‘Functionalized Ir^{I} Alkynyl and Vinylidene Rhodium Complexes: Synthesis and Electronic Properties. <i>Chemistry - A European Journal</i> , 2014, 20, 1427-1433.	1.7	2
89	A Digallane Gold Complex with a 12-Electron Auride Center: Synthesis and Computational Studies. <i>Organometallics</i> , 2020, 39, 4372-4379.	1.1	2
90	Neutral Hexacoordinate Tin(IV) Halide Complexes with 4,4'-â€‘Dimethylâ€‘2,2'-â€‘bipyridine. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 1274-1280.	0.6	2

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91	A boron, nitrogen-containing heterocyclic carbene (BNC) as a redox active ligand: synthesis and characterization of a lithium BNC-aurate complex. Dalton Transactions, 2022, 51, 7899-7906.	1.6	2
92	Frontispiece: Platinum Complexes Containing Pyramidalized Germanium and Tin Dihalide Ligands Bound through σ and π Multiple Bonds. Chemistry - A European Journal, 2014, 20, .	1.7	0
93	Oxidative Coordination versus C-C Bond Cleavage in Acetylacetonate Iridium Complexes. Chemistry - A European Journal, 2021, 27, 8468-8472.	1.7	0
94	Stable Two-Legged Parent Piano-Stool and Mixed Diborabenzene (E = P, As) Sandwich Complexes of Group 8. Angewandte Chemie, 0, , .	1.6	0