

Vincent Lavallo

List of Publications by Year in descending order

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49
papers

6,009
citations

116194

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150775

59
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64
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64
docs citations

64
times ranked

3547
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable Cyclic (Alkyl)(Amino)Carbenes as Rigid or Flexible, Bulky, Electron-Rich Ligands for Transition-Metal Catalysts: A Quaternary Carbon Atom Makes the Difference. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5705-5709.	7.2	936
2	Homogeneous Catalytic Hydroamination of Alkynes and Allenes with Ammonia. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5224-5228.	7.2	346
3	CO Fixation to Stable Acyclic and Cyclic Alkyl Amino Carbenes: Stable Amino Ketenes with a Small HOMO-LUMO Gap. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3488-3491.	7.2	289
4	Allene formation by gold catalyzed cross-coupling of masked carbenes and vinylidenes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13569-13573.	3.3	278
5	A Rigid Cyclic (Alkyl)(amino)carbene Ligand Leads to Isolation of Low-Coordinate Transition-Metal Complexes. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7236-7239.	7.2	260
6	Cyclopropenylidenes: From Interstellar Space to an Isolated Derivative in the Laboratory. <i>Science</i> , 2006, 312, 722-724.	6.0	244
7	Nonclassical Applications of <i>closo</i> -Carborane Anions: From Main Group Chemistry and Catalysis to Energy Storage. <i>Chemical Reviews</i> , 2019, 119, 8262-8290.	23.0	220
8	Synthesis and Ligand Properties of Stable Five-Membered Ring Allenes Containing Only Second-Row Elements. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5411-5414.	7.2	215
9	Synthesis, Reactivity, and Ligand Properties of a Stable Alkyl Carbene. <i>Journal of the American Chemical Society</i> , 2004, 126, 8670-8671.	6.6	173
10	Synthesis and Reactivity of Olefin Metathesis Catalysts Bearing Cyclic (Alkyl)(Amino)Carbenes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7262-7265.	7.2	153
11	Perhalogenated Carba-closo-dodecaborate Anions as Ligand Substituents: Applications in Gold Catalysis. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3172-3176.	7.2	134
12	Fusing N-Heterocyclic Carbenes with Carborane Anions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4489-4493.	7.2	128
13	Isolation of Cyclopropenylidene-Lithium Adducts: The Weiss-Yoshida Reagent. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6652-6655.	7.2	89
14	Cation reduction and comproportionation as novel strategies to produce high voltage, halide free, carborane based electrolytes for rechargeable Mg batteries. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 1101-1104.	3.0	85
15	Comparative Study of Mg(CB ₁₁ H ₁₂) ₂ and Mg(TFSI) ₂ at the Magnesium/Electrolyte Interface. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11414-11420.	4.0	79
16	Teaching an old dog new tricks: new directions in fundamental and applied <i>closo</i> -carborane anion chemistry. <i>Chemical Communications</i> , 2019, 55, 1684-1701.	2.2	74
17	Synthesis of unsymmetrical N-carboranyl NHCs: directing effect of the carborane anion. <i>Chemical Communications</i> , 2015, 51, 5359-5362.	2.2	71
18	Below the 12-vertex: 10-vertex carborane anions as non-corrosive, halide free, electrolytes for rechargeable Mg batteries. <i>Chemical Communications</i> , 2017, 53, 4453-4456.	2.2	71

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19	Are Allenes with Zwitterionic Character Still Allenes? Of Course!. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1540-1542.	7.2	70
20	Changing the Charge: Electrostatic Effects in Pd-Catalyzed Cross-Coupling. <i>Organometallics</i> , 2016, 35, 3257-3260.	1.1	62
21	Structure and Bonding of a Zwitterionic Iridium Complex Supported by a Phosphine with the Parent Carba-closo-dodecaborate CB ₁₁ H ₁₁ ⁺ Ligand Substituent. <i>Organometallics</i> , 2013, 32, 6887-6890.	1.1	58
22	Fusing Dicarbolide Ions with Heterocyclic Carbenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9906-9909.	7.2	58
23	Click-Like Reactions with the Inert HCB ₁₁ Cl ₁₁ ⁻ Anion Lead to Carborane-Fused Heterocycles with Unusual Aromatic Character. <i>Inorganic Chemistry</i> , 2013, 52, 6223-6229.	1.9	50
24	Anionic and zwitterionic carboranyl N-heterocyclic carbene Au(<i>scp</i>) complexes. <i>Dalton Transactions</i> , 2016, 45, 9762-9765.	1.6	49
25	Isolation of a Carborane-Fused Triazole Radical Anion. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11560-11563.	7.2	46
26	Resisting B-H oxidative addition: The divergent reactivity of the o-carborane and carba-closo-dodecaborate ligand substituents. <i>Journal of Organometallic Chemistry</i> , 2015, 798, 214-217.	0.8	43
27	Inductive effects of 10 and 12-vertex closo-carborane anions: cluster size and charge make a difference. <i>Chemical Communications</i> , 2016, 52, 1824-1826.	2.2	42
28	The debut of chiral cyclic (alkyl)(amino)carbenes (CAACs) in enantioselective catalysis. <i>Chemical Science</i> , 2019, 10, 7807-7811.	3.7	41
29	Characterization of Reactive Organometallic Species via MicroED. <i>ACS Central Science</i> , 2019, 5, 1507-1513.	5.3	39
30	Vinyl Carbocations Generated under Basic Conditions and Their Intramolecular C-H Insertion Reactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 9140-9144.	6.6	37
31	Synthesis of a Hybrid m-Terphenyl/o-Carborane Building Block: Applications in Phosphine Ligand Design. <i>Inorganic Chemistry</i> , 2015, 54, 2094-2096.	1.9	36
32	Understanding Superionic Conductivity in Lithium and Sodium Salts of Weakly Coordinating Closo-Hexahalocarborate Anions. <i>Chemistry of Materials</i> , 2020, 32, 1475-1487.	3.2	35
33	Synthesis and Reactivity of a Zwitterionic Palladium Allyl Complex Supported by a Perchlorinated Carboranyl Phosphine. <i>Inorganic Chemistry</i> , 2015, 54, 5142-5144.	1.9	32
34	Observation of Room Temperature B-Cl Activation of the HCB ₁₁ Cl ₁₁ ⁻ Anion and Isolation of a Stable Anionic Carboranyl Phosphazide. <i>Inorganic Chemistry</i> , 2013, 52, 12308-12310.	1.9	31
35	Strongly Coordinating Ligands To Form Weakly Coordinating Yet Functional Organometallic Anions. <i>Journal of the American Chemical Society</i> , 2020, 142, 251-256.	6.6	27
36	Reversible Silver Electrodeposition from Boron Cluster Ionic Liquid (BCIL) Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6825-6830.	4.0	23

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37	Synthesis and reactivity of a stable crystalline diastereomerically pure trifluoromethanesulfonic acid derivative: (S)-(λ^5)-1-trifluoromethylsulfinyl-(R)-4-phenyloxazolidin-2-one. <i>Chemical Communications</i> , 2003, , 1680-1681.	2.2	21
38	Syntheses, Structures, Bonding and Photoelectron Spectra of σ -Push-Pull-Substituted P-[2,6-Bis(trifluoromethyl)phenyl]- λ^5 -3-iminophosphanes. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 2289-2300.	1.0	19
39	Quantitation of Alpha-Glucosidase Activity Using Fluorinated Carbohydrate Array and MALDI-TOF-MS. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2872-2878.	4.0	14
40	Synthesis and characterization of anionic polybrominated carboranyl azides. <i>Inorganica Chimica Acta</i> , 2014, 422, 206-208.	1.2	11
41	Ethylene Oligomerization and Polymerization by Palladium(II) Methyl Complexes Supported by Phosphines Bearing a Perchlorinated 10-Vertex closo-Carborane Anion Substituent. <i>Organometallics</i> , 2018, 37, 4773-4783.	1.1	11
42	On the Reactivity of the Carba λ^5 -closo-dodecaborate Anion with the Trityl Cation. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4417-4419.	1.0	10
43	The first example of a σ -click π -reaction with a carboranyl azide and an olefin. <i>Tetrahedron</i> , 2019, 75, 1323-1325.	1.0	9
44	Fusing Dicarbolide Ions with N-Heterocyclic Carbenes. <i>Angewandte Chemie</i> , 2017, 129, 10038-10041.	1.6	8
45	Synthesis of an anionic Au(I) hydroamination precatalyst supported by charged hydrido-carboranyl phosphine ligands. <i>Polyhedron</i> , 2018, 156, 245-248.	1.0	6
46	Searching for the Truth: Elemental Analysis – A Powerful but Often Poorly Executed Technique. <i>ACS Central Science</i> , 2022, 8, 874-876.	5.3	6
47	Cesium carbonate mediated C-H functionalization of perhalogenated 12-vertex carborane anions. <i>Chemical Communications</i> , 2022, 58, 4060-4062.	2.2	1
48	Dehydrogenation of icosahedral carborane anions via gas-phase collisional activation. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1223-1227.	0.7	0
49	Ligands Featuring Covalently Tethered Moderate to Weakly Coordinating Anions. , 2022, , .		0