Vincent Lavallo

List of Publications by Year in descending order

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| # | 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. Angewandte Chemie - International Edition, 2005, 44, 5705-5709. | 13.8 | 936 |
| 2 | Homogeneous Catalytic Hydroamination of Alkynes and Allenes with Ammonia. Angewandte Chemie - International Edition, 2008, 47, 5224-5228. | 13.8 | 346 |
| 3 | CO Fixation to Stable Acyclic and Cyclic Alkyl Amino Carbenes: Stable Amino Ketenes with a Small HOMO–LUMO Gap. Angewandte Chemie - International Edition, 2006, 45, 3488-3491. | 13.8 | 289 |
| 4 | Allene formation by gold catalyzed cross-coupling of masked carbenes and vinylidenes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13569-13573. | 7.1 | 278 |
| 5 | A Rigid Cyclic (Alkyl)(amino)carbene Ligand Leads to Isolation of Low-Coordinate Transition-Metal Complexes. Angewandte Chemie - International Edition, 2005, 44, 7236-7239. | 13.8 | 260 |
| 6 | Cyclopropenylidenes: From Interstellar Space to an Isolated Derivative in the Laboratory. Science, 2006, 312, 722-724. | 12.6 | 244 |
| 7 | Nonclassical Applications of <i>closo</i> -Carborane Anions: From Main Group Chemistry and Catalysis to Energy Storage. Chemical Reviews, 2019, 119, 8262-8290. | 47.7 | 220 |
| 8 | Synthesis and Ligand Properties of Stable Fiveâ€Memberedâ€Ring Allenes Containing Only Secondâ€Row Elements. Angewandte Chemie - International Edition, 2008, 47, 5411-5414. | 13.8 | 215 |
| 9 | Synthesis, Reactivity, and Ligand Properties of a Stable Alkyl Carbene. Journal of the American Chemical Society, 2004, 126, 8670-8671. | 13.7 | 173 |
| 10 | Synthesis and Reactivity of Olefin Metathesis Catalysts Bearing Cyclic (Alkyl)(Amino)Carbenes. Angewandte Chemie - International Edition, 2007, 46, 7262-7265. | 13.8 | 153 |
| 11 | Perhalogenated Carbaâ€∢i>closoâ€dodecaborate Anions as Ligand Substituents: Applications in Gold Catalysis. Angewandte Chemie - International Edition, 2013, 52, 3172-3176. | 13.8 | 134 |
| 12 | Fusing Nâ€Heterocyclic Carbenes with Carborane Anions. Angewandte Chemie - International Edition, 2014, 53, 4489-4493. | 13.8 | 128 |
| 13 | Isolation of Cyclopropenylidene–Lithium Adducts: The Weiss–Yoshida Reagent. Angewandte Chemie - International Edition, 2006, 45, 6652-6655. | 13.8 | 89 |
| 14 | Cation reduction and comproportionation as novel strategies to produce high voltage, halide free, carborane based electrolytes for rechargeable Mg batteries. Inorganic Chemistry Frontiers, 2015, 2, 1101-1104. | 6.0 | 85 |
| 15 | Comparative Study of Mg(CB ₁₁ H ₁₂) ₂ and Mg(TFSI) ₂ at the Magnesium/Electrolyte Interface. ACS Applied Materials & Interfaces, 2019, 11, 11414-11420. | 8.0 | 79 |
| 16 | Teaching an old dog new tricks: new directions in fundamental and applied <i>closo</i> -carborane anion chemistry. Chemical Communications, 2019, 55, 1684-1701. | 4.1 | 74 |
| 17 | Synthesis of unsymmetrical N-carboranyl NHCs: directing effect of the carborane anion. Chemical Communications, 2015, 51, 5359-5362. | 4.1 | 71 |
| 18 | Below the 12-vertex: 10-vertex carborane anions as non-corrosive, halide free, electrolytes for rechargeable Mg batteries. Chemical Communications, 2017, 53, 4453-4456. | 4.1 | 71 |

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|----|--|------|-----------|
| 19 | Are Allenes with Zwitterionic Character Still Allenes? Of Course!. Angewandte Chemie - International Edition, 2009, 48, 1540-1542. | 13.8 | 70 |
| 20 | Changing the Charge: Electrostatic Effects in Pd-Catalyzed Cross-Coupling. Organometallics, 2016, 35, 3257-3260. | 2.3 | 62 |
| 21 | Structure and Bonding of a Zwitterionic Iridium Complex Supported by a Phosphine with the Parent Carba- <i>closo</i> -dodecaborate CB ₁₁ H ₁₁ [–] Ligand Substituent. Organometallics, 2013, 32, 6887-6890. | 2.3 | 58 |
| 22 | Fusing Dicarbollide Ions with Nâ€Heterocyclic Carbenes. Angewandte Chemie - International Edition, 2017, 56, 9906-9909. | 13.8 | 58 |
| 23 | Click-Like Reactions with the Inert HCB ₁₁ Cl ₁₁ [–] Anion Lead to Carborane-Fused Heterocycles with Unusual Aromatic Character. Inorganic Chemistry, 2013, 52, 6223-6229. | 4.0 | 50 |
| 24 | Anionic and zwitterionic carboranyl N-heterocyclic carbene Au(<scp>i</scp>) complexes. Dalton Transactions, 2016, 45, 9762-9765. | 3.3 | 49 |
| 25 | Isolation of a Carboraneâ€Fused Triazole Radical Anion. Angewandte Chemie - International Edition, 2013, 52, 11560-11563. | 13.8 | 46 |
| 26 | Resisting B–H oxidative addition: The divergent reactivity of the o-carborane and carba-closo-dodecaborate ligand substituents. Journal of Organometallic Chemistry, 2015, 798, 214-217. | 1.8 | 43 |
| 27 | Inductive effects of 10 and 12-vertex closo-carborane anions: cluster size and charge make a difference. Chemical Communications, 2016, 52, 1824-1826. | 4.1 | 42 |
| 28 | The debut of chiral cyclic (alkyl)(amino)carbenes (CAACs) in enantioselective catalysis. Chemical Science, 2019, 10, 7807-7811. | 7.4 | 41 |
| 29 | Characterization of Reactive Organometallic Species via MicroED. ACS Central Science, 2019, 5, 1507-1513. | 11.3 | 39 |
| 30 | Vinyl Carbocations Generated under Basic Conditions and Their Intramolecular C–H Insertion Reactions. Journal of the American Chemical Society, 2019, 141, 9140-9144. | 13.7 | 37 |
| 31 | Synthesis of a Hybrid <i>m</i> -Terphenyl/ <i>o</i> -Carborane Building Block: Applications in Phosphine Ligand Design. Inorganic Chemistry, 2015, 54, 2094-2096. | 4.0 | 36 |
| 32 | Understanding Superionic Conductivity in Lithium and Sodium Salts of Weakly Coordinating Closo-Hexahalocarbaborate Anions. Chemistry of Materials, 2020, 32, 1475-1487. | 6.7 | 35 |
| 33 | Synthesis and Reactivity of a Zwitterionic Palladium Allyl Complex Supported by a Perchlorinated Carboranyl Phosphine. Inorganic Chemistry, 2015, 54, 5142-5144. | 4.0 | 32 |
| 34 | Observation of Room Temperature B–Cl Activation of the HCB11Cl11– Anion and Isolation of a Stable Anionic Carboranyl Phosphazide. Inorganic Chemistry, 2013, 52, 12308-12310. | 4.0 | 31 |
| 35 | Strongly Coordinating Ligands To Form Weakly Coordinating Yet Functional Organometallic Anions. Journal of the American Chemical Society, 2020, 142, 251-256. | 13.7 | 27 |
| 36 | Reversible Silver Electrodeposition from Boron Cluster Ionic Liquid (BCIL) Electrolytes. ACS Applied Materials & Interfaces, 2018, 10, 6825-6830. | 8.0 | 23 |

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|----|--|------|-----------|
| 37 | Synthesis and reactivity of a stable crystalline diastereomerically pure trifluoromethanesulfinic acid derivative: (S)-(â~')-1-trifluoromethylsulfinyl-(R)-4-phenyloxazolidin-2-one. Chemical Communications, 2003, , 1680-1681. | 4.1 | 21 |
| 38 | Syntheses, Structures, Bonding and Photoelectron Spectra of"Push-Pull―SubstitutedP-[2,6-Bis(trifluoromethyl)phenyl]-σ2λ3-iminophosphanes. European Journal of Inorganic Chemistry, 2004, 2004, 2289-2300. | 2.0 | 19 |
| 39 | Quantitation of Alpha-Glucosidase Activity Using Fluorinated Carbohydrate Array and MALDI-TOF-MS. ACS Applied Materials & Interfaces, 2016, 8, 2872-2878. | 8.0 | 14 |
| 40 | Synthesis and characterization of anionic polybrominated carboranyl azides. Inorganica Chimica Acta, 2014, 422, 206-208. | 2.4 | 11 |
| 41 | Ethylene Oligomerization and Polymerization by Palladium(II) Methyl Complexes Supported by Phosphines Bearing a Perchlorinated 10-Vertex closo-Carborane Anion Substituent. Organometallics, 2018, 37, 4773-4783. | 2.3 | 11 |
| 42 | On the Reactivity of the Carbaâ€≺i>closoâ€dodecaborate Anion with the Trityl Cation. European Journal of Inorganic Chemistry, 2017, 2017, 4417-4419. | 2.0 | 10 |
| 43 | The first example of a "click―reaction with a carboranyl azide and an olefin. Tetrahedron, 2019, 75, 1323-1325. | 1.9 | 9 |
| 44 | Fusing Dicarbollide Ions with Nâ€Heterocyclic Carbenes. Angewandte Chemie, 2017, 129, 10038-10041. | 2.0 | 8 |
| 45 | Synthesis of an anionic Au(I) hydroamination precatalyst supported by charged hydrido-carboranyl phosphine ligands. Polyhedron, 2018, 156, 245-248. | 2.2 | 6 |
| 46 | Searching for the Truth: Elemental Analysis–A Powerful but Often Poorly Executed Technique. ACS Central Science, 2022, 8, 874-876. | 11.3 | 6 |
| 47 | Cesium carbonate mediated C–H functionalization of perhalogenated 12-vertex carborane anions. Chemical Communications, 2022, 58, 4060-4062. | 4.1 | 1 |
| 48 | Dehydrogenation of icosahedral carborane anions via gasâ€phase collisional activation. Rapid Communications in Mass Spectrometry, 2016, 30, 1223-1227. | 1.5 | 0 |
| 49 | Ligands Featuring Covalently Tethered Moderate to Weakly Coordinating Anions. , 2022, , . | | 0 |