Liu Leo Liu

List of Publications by Year
in descending order

94 papers	3,908 citations	101543 36 h-index	133252 59 g-index
114 all docs	114 docs citations	114 times ranked	2592 citing authors

#	Article	IF	Citations
1	Modulating the Frontier Orbitals of an Aluminylene for Facile Dearomatization of Inert Arenes**. Angewandte Chemie, 2022, 134, .	2.0	1
2	Modulating the Frontier Orbitals of an Aluminylene for Facile Dearomatization of Inert Arenes**. Angewandte Chemie - International Edition, 2022, 61, .	13.8	18
3	Unraveling the reactivity of a cationic iminoborane: avenues to unusual boron cations. Chemical Science, 2022, 13, 2303-2309.	7.4	8
4	Facile Synthesis of the Dicyanophosphide Anion via Electrochemical Activation of White Phosphorus: An Avenue to Organophosphorus Compounds. Journal of the American Chemical Society, 2022, 144, 1517-1522.	13.7	38
5	Crystalline Neutral Diboron Analogues of Cyclopropanes. Angewandte Chemie - International Edition, 2022, 61, .	13.8	5
6	Free Metallophosphines: Extremely Electronâ€Rich Phosphorus Superbases That Are Electronically and Sterically Tunable**. Angewandte Chemie, 2022, 134, .	2.0	2
7	A <scp>Oneâ€Pot</scp> Strategy for the Synthesis of <scp><i>Î²</i>â€Substituted</scp> Rhodaâ€•and <scp>Iridaâ€Carbolong</scp> Complexes. Chinese Journal of Chemistry, 2022, 40, 1777-1784.	4.9	8
8	Free Metallophosphines: Extremely Electronâ€Rich Phosphorus Superbases That Are Electronically and Sterically Tunable**. Angewandte Chemie - International Edition, 2022, 61, .	13.8	8
9	Conjugated polymers based on metalla-aromatic building blocks. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	12
10	Oxyphosphoranes as precursors to bridging phosphate-catecholate ligands. Chemical Communications, 2021, 57, 1194-1197.	4.1	7
11	Reversible Stereoisomerization of 1,3-Diphosphetane Frameworks Revealed by a Single-Electron Redox Approach. Inorganic Chemistry, 2021, 60, 5771-5778.	4.0	4
12	Boraiminolithium: An Iminoborane-Transfer Reagent. Journal of the American Chemical Society, 2021, 143, 13483-13488.	13.7	16
13	Siteâ€Fixed Hydroboration of Terminal and Internal Alkenes using BX₃/^{<i>i</i>}Pr₂NEt**. Angewandte Chemie, 2021, 133, 26442-26449.	2.0	4
14	Releasing Antiaromaticity in Metal-Bridgehead Naphthalene. Journal of the American Chemical Society, 2021, 143, 15587-15592.	13.7	26
15	Siteâ€Fixed Hydroboration of Terminal and Internal Alkenes using BX₃/^{<i>i</i>}Pr₂NEt**. Angewandte Chemie - International Edition, 2021, 60, 26238-26245.	13.8	23
16	Cyclic (Alkyl)(amino)carbene Ligand-Promoted Nitro Deoxygenative Hydroboration with Chromium Catalysis: Scope, Mechanism, and Applications. Journal of the American Chemical Society, 2021, 143, 1618-1629.	13.7	56
17	A Free Aluminylene with Diverse Ïƒâ€Donating and Doubly Ïƒ/Ï€â€Accepting Ligand Features for Transition Metals**. Angewandte Chemie - International Edition, 2021, 60, 27062-27069.	13.8	27
18	Nâ€Heterocyclic Carbene Stabilized Dicarbondiphosphides: Strong Neutral Fourâ€Membered Heterocyclic 6Ï€â€Electron Donors. Angewandte Chemie - International Edition, 2020, 59, 4288-4293.	13.8	21

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19	An arene-stabilized Î·⁵-pentamethylcyclopentadienyl antimony dication acts as a source of Sb⁺or Sb³⁺cations. Chemical Communications, 2020, 56, 12953-12956.	4.1	16
20	A Roomâ€Temperature Stable Distonic Radical Cation. Angewandte Chemie - International Edition, 2020, 59, 23830-23835.	13.8	13
21	A Roomâ€Temperature Stable Distonic Radical Cation. Angewandte Chemie, 2020, 132, 24038-24043.	2.0	3
22	BNN-1,3-dipoles: isolation and intramolecular cycloaddition with unactivated arenes. Chemical Science, 2020, 11, 7053-7059.	7.4	17
23	Nâ€Heterocyclic Carbene Stabilized Dicarbondiphosphides: Strong Neutral Fourâ€Membered Heterocyclic 6Ï€â€Electron Donors. Angewandte Chemie, 2020, 132, 4318-4323.	2.0	8
24	Facile addition of Eâ€“H bonds to a dicarbondiphosphide. Dalton Transactions, 2020, 49, 6384-6390.	3.3	8
25	Chemoselective Cross-Coupling between Two Different and Unactivated C(aryl)â€“O Bonds Enabled by Chromium Catalysis. Journal of the American Chemical Society, 2020, 142, 7715-7720.	13.7	57
26	Oligomerization of phosphaalkynes mediated by bulky N-heterocyclic carbenes: avenues to novel phosphorus frameworks. Dalton Transactions, 2019, 48, 14242-14245.	3.3	9
27	Baseâ€Stabilized [PO]⁺/[PO₂]⁺ Cations. Angewandte Chemie - International Edition, 2019, 58, 18276-18280.	13.8	15
28	Phosphaaluminirenes: Synthons for Main Group Heterocycles. Journal of the American Chemical Society, 2019, 141, 16971-16982.	13.7	30
29	Reversible Intramolecular Cycloaddition of Phosphaalkene to an Arene Ring. Journal of the American Chemical Society, 2019, 141, 8083-8087.	13.7	24
30	Nâ€Heterocyclic Carbene Derived 3â€Azabutadiene as a Ï€â€Base in Classic and Frustrated Lewis Pair Chemistry. Chemistry - A European Journal, 2019, 25, 7110-7113.	3.3	7
31	The Areneâ€Stabilized Î·⁵â€Pentamethylcyclopentadienyl Arsenic Dication [(Î·⁵â€Cp*)As(toluene)]²⁺. Angewandte Chemie - International Edition, 2019, 58, 5407-5412.	13.8	38
32	The Areneâ€Stabilized Î· 5 â€Pentamethylcyclopentadienyl Arsenic Dication [(Î· 5 â€Cp*)As(toluene)] 2+. Angewandte Chemie, 2019, 131, 5461-5466.	2.0	15
33	Radicals derived from Lewis acid/base pairs. Chemical Society Reviews, 2019, 48, 3454-3463.	38.1	96
34	Baseâ€Stabilized [PO]⁺/[PO₂]⁺ Cations. Angewandte Chemie, 2019, 131, 18444-18448.	2.0	6
35	Facile Cleavage of the P=P Double Bond in Vinylâ€Substituted Diphosphenes. Angewandte Chemie, 2019, 131, 279-283.	2.0	11
36	Facile Cleavage of the P=P Double Bond in Vinylâ€Substituted Diphosphenes. Angewandte Chemie - International Edition, 2019, 58, 273-277.	13.8	45

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37	An umpolung of Lewis acidity/basicity at nitrogen by deprotonation of a cyclic (amino)(aryl)nitrenium cation. Chemical Communications, 2018, 54, 4390-4393.	4.1	35
38	Nitrogenâ€Based Lewis Acids: Synthesis and Reactivity of a Cyclic (Alkyl)(Amino)Nitrenium Cation. Angewandte Chemie, 2018, 130, 3380-3384.	2.0	25
39	Zincâ€Containing Radical Anions via Single Electron Transfer to Donorâ€“Acceptor Adducts. Chemistry - A European Journal, 2018, 24, 3980-3983.	3.3	13
40	Nitrogenâ€Based Lewis Acids: Synthesis and Reactivity of a Cyclic (Alkyl)(Amino)Nitrenium Cation. Angewandte Chemie - International Edition, 2018, 57, 3322-3326.	13.8	57
41	An imineâ€“gallium Lewis pair stabilized oxophosphinidene <i>via</i> an unexpected phosphirene rearrangement. Chemical Communications, 2018, 54, 1041-1044.	4.1	11
42	A Transient Vinylphosphinidene via a Phosphireneâ€“Phosphinidene Rearrangement. Journal of the American Chemical Society, 2018, 140, 147-150.	13.7	57
43	Frontispiz: Nitrogenâ€Based Lewis Acids: Synthesis and Reactivity of a Cyclic (Alkyl)(Amino)Nitrenium Cation. Angewandte Chemie, 2018, 130, .	2.0	0
44	Frontispiece: Nitrogenâ€Based Lewis Acids: Synthesis and Reactivity of a Cyclic (Alkyl)(Amino)Nitrenium Cation. Angewandte Chemie - International Edition, 2018, 57, .	13.8	1
45	A Phosphorus Lewis Super Acid: Î·5-Pentamethylcyclopentadienyl Phosphorus Dication. CheM, 2018, 4, 2699-2708.	11.7	39
46	Phosphorus Coordination Chemistry in Catalysis: Air Stable P(III)-Dications as Lewis Acid Catalysts for the Allylation of Câ€“F Bonds. Organometallics, 2018, 37, 4540-4544.	2.3	36
47	Homolytic cleavage of peroxide bonds via a single electron transfer of a frustrated Lewis pair. Chemical Communications, 2018, 54, 7431-7434.	4.1	43
48	Reductive Coupling and Loss of N₂ from Magnesium Diazomethane Derivatives. Chemistry - A European Journal, 2018, 24, 8589-8595.	3.3	14
49	A Room-Temperature-Stable Phosphanorcaradiene. Journal of the American Chemical Society, 2018, 140, 7466-7470.	13.7	20
50	N-Heterocyclic carbene stabilized parent sulfenyl, selenenyl, and tellurenyl cations (XH⁺,) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.3	39
51	(Phosphanyl)phosphaketenes as building blocks for novel phosphorus heterocycles. Chemical Science, 2017, 8, 3720-3725.	7.4	50
52	FLP reactivity of [Ph₃C]⁺ and (<i>o</i>-tolyl)₃P and the capture of a Staudinger reaction intermediate. Dalton Transactions, 2017, 46, 9334-9338.	3.3	28
53	A theoretical study on the mechanism of ruthenium(<scp>ii</scp>)-catalyzed phosphoryl-directed <i>ortho</i>-selective Câ€“H bond activations: the phosphoryl hydroxy group triggered Ru(<scp>ii</scp>)/Ru(0) catalytic cycle. Organic Chemistry Frontiers, 2017, 4, 1482-1492.	4.5	14
54	Catalytic hydroboration of aldehydes, ketones, alkynes and alkenes initiated by NaOH. Green Chemistry, 2017, 19, 4169-4175.	9.0	126

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55	A Radical Mechanism for Frustrated Lewis Pair Reactivity. CheM, 2017, 3, 259-267.	11.7	129
56	The Dynamic Nature of Phosphorus. CheM, 2017, 3, 195-197.	11.7	0
57	Single Electron Delivery to Lewis Pairs: An Avenue to Anions by Small Molecule Activation. Journal of the American Chemical Society, 2017, 139, 10062-10071.	13.7	60
58	Nâ€Heterocyclic Carbenes as Promotors for the Rearrangement of Phosphaketenes to Phosphaheteroallenes: A Case Study for OCP to OPC Constitutional Isomerism. Angewandte Chemie, 2016, 128, 6122-6126.	2.0	46
59	Mechanism, catalysis and predictions of 1,3,2-diazaphospholenes: theoretical insight into highly polarized Pâ€“X bonds. Organic Chemistry Frontiers, 2016, 3, 423-433.	4.5	19
60	A Singlet Phosphinidene Stable at Room Temperature. CheM, 2016, 1, 147-153.	11.7	255
61	Mechanism of Nickel-Catalyzed Selective Câ€“N Bond Activation in Suzuki-Miyaura Cross-Coupling of Amides: A Theoretical Investigation. Journal of Organic Chemistry, 2016, 81, 11686-11696.	3.2	55
62	Main group metalâ€“ligand cooperation of N-heterocyclic germylene: an efficient catalyst for hydroboration of carbonyl compounds. Chemical Communications, 2016, 52, 13799-13802.	4.1	91
63	Synthesis of a Carbodicyclopropenylidene: A Carbodicarbene based Solely on Carbon. Angewandte Chemie - International Edition, 2016, 55, 5536-5540.	13.8	63
64	Synthesis of a Carbodicyclopropenylidene: A Carbodicarbene based Solely on Carbon. Angewandte Chemie, 2016, 128, 5626-5630.	2.0	22
65	Nâ€Heterocyclic Carbenes as Promotors for the Rearrangement of Phosphaketenes to Phosphaheteroallenes: A Case Study for OCP to OPC Constitutional Isomerism. Angewandte Chemie - International Edition, 2016, 55, 6018-6022.	13.8	70
66	Isolation of a Heavier Cyclobutadiene Analogue: 2,4-Digerma-1,3-diphosphacyclobutadiene. Organometallics, 2016, 35, 1593-1596.	2.3	76
67	Isolation of Au-, Co-Î·¹PCO and Cu-Î·²PCO complexes, conversion of an Irâ€“Î·¹PCO complex into a dimetalladiphosphene, and an interaction-free PCO anion. Chemical Science, 2016, 7, 2335-2341.	7.4	121
68	Synthesis of digermylene-stabilized linear tetraboronate and boroxine. Chemical Communications, 2016, 52, 1582-1585.	4.1	7
69	Cyclic (Amino)(aryl)carbenes (CAArCs) as Strong Ïƒâ€Donating and Ï€â€Accepting Ligands for Transition Metals. Angewandte Chemie - International Edition, 2015, 54, 14915-14919.	13.8	126
70	Distinguishing isomeric aldohexose-ketohexose disaccharides by electrospray ionization mass spectrometry in positive mode. Rapid Communications in Mass Spectrometry, 2015, 29, 2167-2174.	1.5	8
71	Palladium-Catalyzed Domino Addition and Cyclization of Arylboronic Acids with 3-Hydroxyprop-1-yn-1-yl Phosphonates Leading to 1,2-Oxaphospholenes. Journal of Organic Chemistry, 2015, 80, 6908-6914.	3.2	13
72	N-phosphoryl amino acid models for P-N bonds in prebiotic chemical evolution. Science China Chemistry, 2015, 58, 374-382.	8.2	26

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73	Stability, Reactivity, Selectivity, Catalysis, and Predictions of 1,3,2,5-Diazadiborinine: Computational Insight into a Boronâ€“Boron Frustrated Lewis Pair. Journal of Organic Chemistry, 2015, 80, 8790-8795.	3.2	24
74	Isolation of a Lewis base stabilized parent phosphenium (PH₂⁺) and related species. Chemical Communications, 2015, 51, 12732-12735.	4.1	75
75	Reactivity of Germylene toward Phosphorus-Containing Compounds: Nucleophilic Addition and Tautomerism. Inorganic Chemistry, 2015, 54, 4423-4430.	4.0	19
76	Oneâ€, Twoâ€, and Threeâ€Electron Reduction of a Cyclic Alkyl(amino)carbeneâ€“SbCl₃ Adduct. Angewandte Chemie - International Edition, 2014, 53, 8176-8179.	13.8	124
77	Crossâ€Coupling Reactions between Stable Carbenes. Angewandte Chemie - International Edition, 2014, 53, 6550-6553.	13.8	36
78	Double Role of the Hydroxy Group of Phosphoryl in Palladium(II)-Catalyzed ortho-Olefination: A Combined Experimental and Theoretical Investigation. Journal of Organic Chemistry, 2014, 79, 80-87.	3.2	35
79	Experimental and Theoretical Study on Palladium-Catalyzed Câ€“P Bond Formation via Direct Coupling of Triarylbismuths with P(O)â€“H Compounds. Journal of Organic Chemistry, 2014, 79, 608-617.	3.2	76
80	Experimental and theoretical studies on nickelâ€“zinc-catalyzed cross-coupling of gem-dibromoalkenes with P(O)â€“H compounds. RSC Advances, 2014, 4, 2322-2326.	3.6	24
81	Singlet carbenes as mimics for transition metals: synthesis of an air stable organic mixed valence compound [M₂(C₂)⁺Ë™; M = cyclic(alkyl)(amino)carbene]. Organic Chemistry Frontiers, 2014, 1, 351-354.	4.5	82
82	An efficient synthetic route to stable bis(carbene)borylenes [(L1)(L2)BH]. Chemical Communications, 2014, 50, 7837-7839.	4.1	132
83	The phosphaethynolate anion reacts with unsaturated bonds: DFT investigations into [2+2], [3+2] and [4+2] cycloadditions. Chemical Communications, 2014, 50, 11347-11349.	4.1	34
84	Nickel-Catalyzed Decarboxylative Câ€“P Cross-Coupling of Alkenyl Acids with P(O)H Compounds. Journal of Organic Chemistry, 2014, 79, 8118-8127.	3.2	84
85	Mechanistic Insight into the Copper-Catalyzed Phosphorylation of Terminal Alkynes: A Combined Theoretical and Experimental Study. Journal of Organic Chemistry, 2014, 79, 6816-6822.	3.2	66
86	Mechanism, Reactivity, and Selectivity in Rh(III)-Catalyzed Phosphoryl-Directed Oxidative Câ€“H Activation/Cyclization: A DFT Study. Journal of Organic Chemistry, 2014, 79, 5074-5081.	3.2	45
87	Cs₂CO₃-Promoted One-Pot Synthesis of Alkynylphosphonates, -phosphinates, and -phosphine Oxides. Journal of Organic Chemistry, 2014, 79, 3678-3683.	3.2	46
88	Phosphorus oxychloride as an efficient coupling reagent for the synthesis of esters, amides and peptides under mild conditions. RSC Advances, 2013, 3, 16247-16250.	3.6	30
89	Carbodicarbenes, Carbon(0) Derivatives, Can Dimerize. Chemistry - an Asian Journal, 2013, 8, 2940-2942.	3.3	31
90	Mechanistic Insight into the Nickelâ€Catalyzed Crossâ€Coupling of Aryl Phosphates with Arylboronic Acids: Potassium Phosphate is Not a Spectator Base but is Involved in the Transmetalation Step in the Suzukiâ€“Miyaura Reaction. Chemistry - an Asian Journal, 2013, 8, 2592-2595.	3.3	34

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91	Nickel(II)â€•Magnesiumâ€•Catalyzed Crossâ€•Coupling of 1,1â€•Dibromoâ€•1â€•alkenes with Diphenylphosphine Oxide: Oneâ€•Pot Synthesis of (<i>E</i>)â€•1â€•Alkenylphosphine Oxides or Bisphosphine Oxides. Advanced Synthesis and Catalysis, 2013, 355, 659-666.	4.3	68
92	Deprotonation of a Borohydride: Synthesis of a Carbeneâ€•Stabilized Boryl Anion. Angewandte Chemie - International Edition, 2013, 52, 7590-7592.	13.8	129
93	Solvent-free solid acid-catalyzed nucleophilic substitution of propargylic alcohols: a green approach for the synthesis of 1,4-diynes. Green Chemistry, 2010, 12, 1576.	9.0	22
94	A Free Aluminylene with Diverse Ïƒâ€•Donating and Doubly Ïƒ/Ï€â€•Accepting Ligand Features for Transition Metals. Angewandte Chemie, 0, , .	2.0	8