

Guy Bertrand

List of Publications by Year in descending order

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384
papers

38,804
citations

2098

100
h-index

3725

179
g-index

430
all docs

430
docs citations

430
times ranked

10728
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable Carbenes. <i>Chemical Reviews</i> , 2000, 100, 39-92.	23.0	3,455
2	Stable Cyclic Carbenes and Related Species beyond Diaminocarbenes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8810-8849.	7.2	980
3	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
4	Facile Splitting of Hydrogen and Ammonia by Nucleophilic Activation at a Single Carbon Center. <i>Science</i> , 2007, 316, 439-441.	6.0	838
5	Cyclic (Alkyl)(Amino)Carbenes (CAACs): Stable Carbenes on the Rise. <i>Accounts of Chemical Research</i> , 2015, 48, 256-266.	7.6	770
6	Analogous .alpha.,.alpha.'-bis-carbenoid, triply bonded species: synthesis of a stable .lambda.3-phosphino carbene-.lambda.5-phosphaacetylene. <i>Journal of the American Chemical Society</i> , 1988, 110, 6463-6466.	6.6	754
7	Cyclic (Alkyl)(amino)carbenes (CAACs): Recent Developments. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10046-10068.	7.2	610
8	Stable singlet carbenes as mimics for transition metal centers. <i>Chemical Science</i> , 2011, 2, 389-399.	3.7	584
9	Synthesis and Characterization of a Neutral Tricoordinate Organoboron Isoelectronic with Amines. <i>Science</i> , 2011, 333, 610-613.	6.0	486
10	Eliminating nonradiative decay in Cu(I) emitters: >99% quantum efficiency and microsecond lifetime. <i>Science</i> , 2019, 363, 601-606.	6.0	450
11	³¹ P NMR Chemical Shifts of Carbene-Phosphinidene Adducts as an Indicator of the Accepting Properties of Carbenes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2939-2943.	7.2	447
12	Synthesis of an Extremely Bent Acyclic Allene (A Carbodicarbene): A Strong Donor Ligand. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3206-3209.	7.2	446
13	Carbene-stabilized main group radicals and radical ions. <i>Chemical Science</i> , 2013, 4, 3020.	3.7	433
14	Isolation of a C5-Deprotonated Imidazolium, a Crystalline Abnormal-N-Heterocyclic Carbene. <i>Science</i> , 2009, 326, 556-559.	6.0	404
15	A Brief Survey of Our Contribution to Stable Carbene Chemistry. <i>Organometallics</i> , 2011, 30, 5304-5313.	1.1	400
16	Crystalline 1,2,3-Triazol-5-ylidenes: New Stable Mesoionic Carbenes (MICs). <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4759-4762.	7.2	367
17	Homogeneous Catalytic Hydroamination of Alkynes and Allenes with Ammonia. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5224-5228.	7.2	346
18	Singlet Diradicals: from Transition States to Crystalline Compounds. <i>Science</i> , 2002, 295, 1880-1881.	6.0	316

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19	Nonmetal-Mediated Fragmentation of P ₄ : Isolation of P ₁ and P ₂ Bis(carbene) Adducts. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5530-5533.	7.2	297
20	[Bis(diisopropylamino)phosphino]trimethylsilylcarbene: A Stable Nucleophilic Carbene. <i>Angewandte Chemie International Edition in English</i> , 1989, 28, 621-622.	4.4	292
21	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
22	Isolation of crystalline carbene-stabilized P ₂ -radical cations and P ₂ -dications. <i>Nature Chemistry</i> , 2010, 2, 369-373.	6.6	282
23	Carbene Activation of P ₄ and Subsequent Derivatization. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7052-7055.	7.2	280
24	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
25	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
26	Synthesis and Reactivity of a CAAC-Aminoborylene Adduct: A Hetero-Allene or an Organoboron Isoelectronic with Singlet Carbenes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13159-13163.	7.2	258
27	NHC-Mediated Aggregation of P ₄ : Isolation of a P ₁₂ Cluster. <i>Journal of the American Chemical Society</i> , 2007, 129, 14180-14181.	6.6	257
28	A Singlet Phosphinidene Stable at Room Temperature. <i>CheM</i> , 2016, 1, 147-153.	5.8	255
29	Intramolecular Hydroiminiumination of Alkenes: Application to the Synthesis of Conjugate Acids of Cyclic Alkyl Amino Carbenes (CAACs). <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2899-2902.	7.2	247
30	Cyclopropenylidenes: From Interstellar Space to an Isolated Derivative in the Laboratory. <i>Science</i> , 2006, 312, 722-724.	6.0	244
31	Carbenes Introduction. <i>Chemical Reviews</i> , 2009, 109, 3209-3210.	23.0	233
32	Synthesis of a Simplified Version of Stable Bulky and Rigid Cyclic (Alkyl)(amino)carbenes, and Catalytic Activity of the Ensuing Gold(I) Complex in the Three-Component Preparation of 1,2-Dihydroquinoline Derivatives. <i>Journal of the American Chemical Society</i> , 2009, 131, 8690-8696.	6.6	225
33	Serendipitous Discovery of the Catalytic Hydroammoniumation and Methylamination of Alkynes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 942-945.	7.2	219
34	Cyclische Alkylaminocarbene (CAACs): Neues von guten Bekannten. <i>Angewandte Chemie</i> , 2017, 129, 10180-10203.	1.6	219
35	Isolation of a Carbene-Stabilized Phosphorus Mononitride and Its Radical Cation (PN ⁺). <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5930-5933.	7.2	217
36	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

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37	1,2,4-Triazole-3,5-diyliidene: A Building Block for Organometallic Polymer Synthesis. <i>Journal of the American Chemical Society</i> , 1997, 119, 6668-6669.	6.6	206
38	Activation of Si-H, Bi-H, and Pi-H Bonds at a Single Nonmetal Center. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9444-9447.	7.2	198
39	Cyclic (Alkyl)- and (Aryl)-(amino)carbene Coinage Metal Complexes and Their Applications. <i>Chemical Reviews</i> , 2020, 120, 4141-4168.	23.0	196
40	Stable abnormal N-heterocyclic carbenes and their applications. <i>Chemical Society Reviews</i> , 2020, 49, 1233-1252.	18.7	192
41	Isolation of bis(copper) key intermediates in Cu-catalyzed azide-alkyne "click reaction". <i>Science Advances</i> , 2015, 1, e1500304.	4.7	188
42	"Quick-Silver" from a Systematic Study of Highly Luminescent, Two-Coordinate, d^{10} Coinage Metal Complexes. <i>Journal of the American Chemical Society</i> , 2019, 141, 8616-8626.	6.6	187
43	A Crystalline Phosphinyl Radical Cation. <i>Journal of the American Chemical Society</i> , 2010, 132, 10262-10263.	6.6	185
44	Synthesis of Highly Stable 1,3-Diaryl-1,2,3-triazol-5-ylidenes and Their Applications in Ruthenium-Catalyzed Olefin Metathesis. <i>Organometallics</i> , 2011, 30, 2617-2627.	1.1	185
45	Cyclic Alkyl Amino Carbene (CAAC) Ruthenium Complexes as Remarkably Active Catalysts for Ethenolysis. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1919-1923.	7.2	175
46	Stable non-N-heterocyclic carbenes (non-NHC): recent progress. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 3857-3865.	0.8	173
47	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
48	Gold-Catalyzed Hydroamination of Alkynes and Allenes with Parent Hydrazine. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5560-5563.	7.2	172
49	1,2,3-Triazol-5-ylidenes: Readily Available Mesoionic Carbenes. <i>Accounts of Chemical Research</i> , 2018, 51, 3236-3244.	7.6	165
50	(Amino)(Aryl)Carbenes: Stable Singlet Carbenes Featuring a Spectator Substituent. <i>Science</i> , 2001, 292, 1901-1903.	6.0	154
51	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
52	A Stable P-Heterocyclic Carbene. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1700-1703.	7.2	152
53	Intramolecular "Hydroiminium and -amidinium" of Alkenes: A Convenient, Flexible, and Scalable Route to Cyclic Iminium and Imidazolium Salts. <i>Journal of Organic Chemistry</i> , 2007, 72, 3492-3499.	1.7	151
54	Borylenes: An Emerging Class of Compounds. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10282-10292.	7.2	151

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55	A Crystalline Singlet Phosphinonitrene: A Nitrogen Atomâ€“Transfer Agent. <i>Science</i> , 2012, 337, 1526-1528.	6.0	148
56	Singlet (Phosphino)phosphinidenes are Electrophilic. <i>Journal of the American Chemical Society</i> , 2016, 138, 8356-8359.	6.6	148
57	Neutral and Cationic Tetracoordinated Aluminum Complexes Featuring Tridentate Nitrogen Donors:â€“ Synthesis, Structure, and Catalytic Activity for the Ring-Opening Polymerization of Propylene Oxide and (d,l)-Lactide. <i>Organometallics</i> , 1998, 17, 3599-3608.	1.1	146
58	Synthesis of 4- and 4,5-Functionalized Imidazol-2-ylidenes from a Single 4,5-Unsubstituted Imidazol-2-ylidene. <i>Journal of the American Chemical Society</i> , 2010, 132, 7264-7265.	6.6	144
59	Gold-Catalyzed Intermolecular Markovnikov Hydroamination of Allenes with Secondary Amines. <i>Organic Letters</i> , 2009, 11, 3166-3169.	2.4	143
60	A Cationic Gold(I) Complex as a General Catalyst for the Intermolecular Hydroamination of Alkynes: Application to the Oneâ€“Pot Synthesis of Allenes from Two Alkynes and a Sacrificial Amine. <i>Chemistry - A European Journal</i> , 2009, 15, 3056-3060.	1.7	140
61	Carbene Activation of P₄ and Subsequent Derivatization. <i>Angewandte Chemie</i> , 2007, 119, 7182-7185.	1.6	139
62	Gold-Catalyzed Hydroarylation of Alkenes with Dialkylanilines. <i>Journal of the American Chemical Society</i> , 2014, 136, 13594-13597.	6.6	139
63	Kinetic Selectivity of Olefin Metathesis Catalysts Bearing Cyclic (Alkyl)(Amino)Carbenes. <i>Organometallics</i> , 2008, 27, 563-566.	1.1	137
64	Stable Versions of Transient Push-Pull Carbenes: Extending Lifetimes from Nanoseconds to Weeks. <i>Science</i> , 2000, 288, 834-836.	6.0	136
65	An efficient synthetic route to stable bis(carbene)borylenes [(L1)(L2)BH]. <i>Chemical Communications</i> , 2014, 50, 7837-7839.	2.2	132
66	Borylene Complexes (BH)L₂ and Nitrogen Cation Complexes (N⁺L₂): Isoelectronic Homologues of Carbones CL₂. <i>Chemistry - A European Journal</i> , 2012, 18, 5676-5692.	1.7	131
67	Deprotonation of a Borohydride: Synthesis of a Carbeneâ€“Stabilized Boryl Anion. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7590-7592.	7.2	129
68	[Bis(diisopropylamino)phosphino]trimethylsilylâ€“carben: Ein stabiles nucleophiles Carben. <i>Angewandte Chemie</i> , 1989, 101, 617-618.	1.6	128
69	Soluble Allotropes of Main-Group Elements. <i>Science</i> , 2008, 321, 1050-1051.	6.0	128
70	A Cyclic Diaminocarbene with a Pyramidalized Nitrogen Atom: A Stable Nâ€“Heterocyclic Carbene with Enhanced Electrophilicity. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6172-6175.	7.2	128
71	Cyclic (alkyl)(amino)carbene gold(I) complexes: A synthetic and structural investigation. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 1674-1682.	0.8	127
72	Cyclic (Amino)(aryl)carbenes (CAArCs) as Strong Ïƒâ€“Donating and Ïƒâ€“Accepting Ligands for Transition Metals. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14915-14919.	7.2	126

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73	One-, Two-, and Three-Electron Reduction of a Cyclic Alkyl(amino)carbene-SbCl ₃ Adduct. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8176-8179.	7.2	124
74	Synthesis and Ligand Properties of a Persistent, All-Carbon Four-Membered Ring Allene. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4792-4795.	7.2	122
75	Isolation of Au-, Co- ¹ PCO and Cu- ² PCO complexes, conversion of an Ir- ¹ PCO complex into a dimetalladiphosphene, and an interaction-free PCO anion. <i>Chemical Science</i> , 2016, 7, 2335-2341.	3.7	121
76	Aluminum Chloride-Promoted Transamidation Reactions. <i>Journal of Organic Chemistry</i> , 1994, 59, 4035-4036.	1.7	120
77	Stable Planar Six-Electron Six-Membered N-Heterocyclic Carbenes with Tunable Electronic Properties. <i>Journal of the American Chemical Society</i> , 2005, 127, 10182-10183.	6.6	119
78	Exocyclic Delocalization at the Expense of Aromaticity in 3,5-bis(σ-Donor) Substituted Pyrazolium Ions and Corresponding Cyclic Bent Allenes. <i>Journal of the American Chemical Society</i> , 2009, 131, 11875-11881.	6.6	119
79	Isolation of Neutral Mono- and Dinuclear Gold Complexes of Cyclic (Alkyl)(amino)carbenes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8964-8967.	7.2	119
80	DBU and DBN are Strong Nucleophiles: X-Ray Crystal Structures of Onio- and Dionio-Substituted Phosphanes. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 399-401.	4.4	117
81	Transition-Metal-like Behavior of Main Group Elements: Ligand Exchange at a Phosphinidene. <i>Journal of the American Chemical Society</i> , 2016, 138, 15885-15888.	6.6	116
82	Synthesis of Hemilabile Cyclic (Alkyl)(amino)carbenes (CAACs) and Applications in Organometallic Chemistry. <i>Journal of the American Chemical Society</i> , 2016, 138, 7884-7887.	6.6	116
83	Bottleable (Amino)(Carboxy) Radicals Derived from Cyclic (Alkyl)(Amino) Carbenes. <i>Journal of the American Chemical Society</i> , 2013, 135, 18766-18769.	6.6	113
84	Nitrile Imines: From Matrix Characterization to Stable Compounds. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 527-545.	4.4	112
85	Mono- and Diaminocarbenes from Chloroiminium and -amidinium Salts: Synthesis of Metal-Free Bis(dimethylamino)carbene. <i>Journal of the American Chemical Society</i> , 2004, 126, 1016-1017.	6.6	112
86	Catalyst-free dehydrocoupling of amines, alcohols, and thiols with pinacol borane and 9-borabicyclononane (9-BBN). <i>Chemical Communications</i> , 2016, 52, 10563-10565.	2.2	112
87	Bis(1,2,3-triazol-5-ylidenes) (i-bitz) as Stable 1,4-Bidentate Ligands Based on Mesoionic Carbenes (MICs). <i>Organometallics</i> , 2011, 30, 6017-6021.	1.1	111
88	Two-coordinate Fe ⁰ and Co ⁰ Complexes Supported by Cyclic (alkyl)(amino)carbenes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8427-8431.	7.2	111
89	N-Heterocyclic carbenes versus transition metals for stabilizing phosphinyl radicals. <i>Chemical Science</i> , 2011, 2, 858.	3.7	108
90	Highly Ambiphilic Room Temperature Stable Six-Membered Cyclic (Alkyl)(amino)carbenes. <i>Journal of the American Chemical Society</i> , 2018, 140, 9255-9260.	6.6	107

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91	Comparative Reactivity of Different Types of Stable Cyclic and Acyclic Mono- and Diamino Carbenes with Simple Organic Substrates. <i>Journal of the American Chemical Society</i> , 2014, 136, 5023-5030.	6.6	106
92	Stable (Amino)(phosphino)carbenes: A Difunctional Molecules. <i>Journal of the American Chemical Society</i> , 2002, 124, 6806-6807.	6.6	98
93	Protonolysis of a Ruthenium-Carbene Bond and Applications in Olefin Metathesis. <i>Journal of the American Chemical Society</i> , 2011, 133, 8498-8501.	6.6	98
94	Synthesis, reactivity, and crystal structure of the first methylenephosphonium ion: a severely twisted valence isoelectronic olefin. <i>Journal of the American Chemical Society</i> , 1989, 111, 6853-6854.	6.6	96
95	Isolation of a potassium bis(1,2,3-triazol-5-ylidene)carbazolide: a stabilizing pincer ligand for reactive late transition metal complexes. <i>Chemical Communications</i> , 2014, 50, 2431.	2.2	96
96	Air-Stable (CAAC)CuCl and (CAAC)CuBH ₄ Complexes as Catalysts for the Hydrolytic Dehydrogenation of BH ₃ NH ₃ . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6008-6011.	7.2	95
97	Air-Persistent Monomeric (Amino)(carboxy) Radicals Derived from Cyclic (Alkyl)(Amino) Carbenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 7519-7525.	6.6	94
98	Radical-Type Reactivity of the 1,3-Dibora-2,4-Diphosphoniocyclobutane-1,3-diyl. <i>Journal of the American Chemical Society</i> , 2004, 126, 1344-1345.	6.6	92
99	Stability and Electronic Properties of Imidazole-Based Mesoionic Carbenes. <i>Chemistry - A European Journal</i> , 2011, 17, 8269-8272.	1.7	92
100	Bicyclic (Alkyl)(amino)carbenes (BICAACs): Stable Carbenes More Ambiphilic than CAACs. <i>Journal of the American Chemical Society</i> , 2017, 139, 7753-7756.	6.6	92
101	Synthesis and x-ray crystal structure of [(iso-Pr ₂ N) ₂ P(H)CP(N-iso-Pr ₂) ₂]+CF ₃ SO ₃ ⁻ : a carbene, a cumulene, or a phosphaacetylene?. <i>Journal of the American Chemical Society</i> , 1992, 114, 10959-10961.	6.6	90
102	Isolation of Cyclopropenylidene-Lithium Adducts: The Weiss-Yoshida Reagent. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6652-6655.	7.2	89
103	Rethinking carbon. <i>Nature Chemistry</i> , 2009, 1, 265-266.	6.6	89
104	Exploring the reactivity of white phosphorus with electrophilic carbenes: synthesis of a P ₄ cage and P ₈ clusters. <i>Chemical Communications</i> , 2013, 49, 4486.	2.2	89
105	Trinuclear Gold Clusters Supported by Cyclic (alkyl)(amino)carbene Ligands: Mimics for Gold Heterogeneous Catalysts. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9059-9063.	7.2	89
106	Tandem copper hydride-Lewis pair catalysed reduction of carbon dioxide into formate with dihydrogen. <i>Nature Catalysis</i> , 2018, 1, 743-747.	16.1	88
107	What Are the Radical Intermediates in Oxidative <i>N</i> -Heterocyclic Carbene Organocatalysis?. <i>Journal of the American Chemical Society</i> , 2019, 141, 1109-1117.	6.6	88
108	σ-Bond Stretching: A Static Approach for a Dynamic Process. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 585-587.	7.2	86

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109	Synthesis of the first .alpha.-diazophosphines. Phosphorous-carbon multiple-bond character of phosphinocarbenes. Journal of the American Chemical Society, 1985, 107, 4781-4783.	6.6	85
110	Coinage Metals Binding as Main Group Elements: Structure and Bonding of the Carbene Complexes [TM(cAAC) ₂] and [TM(cAAC) ₂] ⁺ (TM = Cu, Ag, Au). Journal of the American Chemical Society, 2014, 136, 17123-17135.	6.6	84
111	Synthesis and structure of the first cyclodiphosphazene. Dimerization of a phosphonitrile :P≡N. Journal of the American Chemical Society, 1984, 106, 6088-6089.	6.6	83
112	Isolation of a Benzene Valence Isomer with One-Electron Phosphorus-Phosphorus Bonds. Science, 1998, 279, 2080-2082.	6.0	82
113	Singlet carbenes as mimics for transition metals: synthesis of an air stable organic mixed valence compound [M ₂ (C ₂) ⁺ ; M = cyclic(alkyl)(amino)carbene]. Organic Chemistry Frontiers, 2014, 1, 351-354.	2.3	82
114	Synthesis of a Room-Temperature Stable Dimeric Copper(I) Hydride. Chemistry - an Asian Journal, 2011, 6, 402-405.	1.7	77
115	Modular Approach to Kekulé Diradicaloids Derived from Cyclic (Alkyl)(amino)carbenes. Journal of the American Chemical Society, 2018, 140, 2546-2554.	6.6	77
116	Amino-Aryl-Carbenes: Alternative Ligands for Transition Metals?. Journal of the American Chemical Society, 2004, 126, 1342-1343.	6.6	76
117	Isolation of a Lewis base stabilized parent phosphonium (PH ₂) ⁺ and related species. Chemical Communications, 2015, 51, 12732-12735.	2.2	75
118	A new synthetic method for the preparation of protonated-NHCs and related compounds. Journal of Organometallic Chemistry, 2006, 691, 3201-3205.	0.8	74
119	Electronic structure of .lambda.5-phosphaacetylene and corresponding triplet methylenes. Journal of the American Chemical Society, 1991, 113, 8782-8785.	6.6	73
120	Isolation of Neutral Mononuclear Copper Complexes Stabilized by Two Cyclic (Alkyl)(amino)carbenes. Journal of the American Chemical Society, 2014, 136, 6235-6238.	6.6	73
121	Copper-catalyzed dehydrogenative borylation of terminal alkynes with pinacolborane. Chemical Science, 2017, 8, 165-168.	3.7	73
122	Anti-Bredt N-heterocyclic carbene: an efficient ligand for the gold(i)-catalyzed hydroamination of terminal alkynes with parent hydrazine. Chemical Communications, 2013, 49, 4483.	2.2	72
123	Phosphorescent 2-, 3- and 4-coordinate cyclic (alkyl)(amino)carbene (CAAC) Cu complexes. Chemical Communications, 2017, 53, 9008-9011.	2.2	72
124	Stable four-electron, four-membered heterocyclic cations and carbenes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13585-13588.	3.3	70
125	The Janus Face of the X Ligand in the Copper-Catalyzed Azide-Alkyne Cycloaddition. Journal of the American Chemical Society, 2015, 137, 15696-15698.	6.6	70
126	N-Heterocyclic Carbenes as Promoters for the Rearrangement of Phosphaketenes to Phosphaheteroallenes: A Case Study for OCP to OPC Constitutional Isomerism. Angewandte Chemie - International Edition, 2016, 55, 6018-6022.	7.2	70

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127	1,2,4-Triazolium-5-ylidene and 1,2,4-triazol-3,5-diylidene as new ligands for transition metals. <i>Journal of Organometallic Chemistry</i> , 2000, 600, 112-117.	0.8	69
128	Mesoionic Carbene (MIC)-Catalyzed H/D Exchange at Formyl Groups. <i>CheM</i> , 2019, 5, 2484-2494.	5.8	69
129	On the Electronic Structure of (Phosphino)(silyl)carbenes: Single-Crystal X-ray Diffraction and ELF Analyses. <i>Journal of the American Chemical Society</i> , 2000, 122, 998-999.	6.6	68
130	Persistent (Amino)(Silyl)Carbenes. <i>Journal of the American Chemical Society</i> , 2005, 127, 7312-7313.	6.6	68
131	Copper(I) Complexes Bearing Carbenes Beyond Classical N-Heterocyclic Carbenes: Synthesis and Catalytic Activity in <i>Click Chemistry</i> . <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 3155-3161.	2.1	68
132	NHC-CAAC Heterodimers with Three Stable Oxidation States. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12886-12890.	7.2	68
133	Stable Carbenes, Nitrenes, Phosphinidenes, and Borylenes: Past and Future. <i>CheM</i> , 2020, 6, 1275-1282.	5.8	68
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