

# Guy Bertrand

## List of Publications by Citations

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417  
papers

32,971  
citations

94  
h-index

166  
g-index

430  
ext. papers

36,012  
ext. citations

10.8  
avg, IF

7.58  
L-index

#	Paper	IF	Citations
417	Stable Carbenes. <i>Chemical Reviews</i> , <b>2000</b> , 100, 39-92	68.1	3126
416	Stable cyclic carbenes and related species beyond diaminocarbenes. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 8810-49	16.4	890
415	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> , <b>2005</b> , 44, 5705-9	16.4	805
414	Facile splitting of hydrogen and ammonia by nucleophilic activation at a single carbon center. <i>Science</i> , <b>2007</b> , 316, 439-41	33.3	749
413	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> , <b>1988</b> , 110, 6463-6466	16.4	630
412	Cyclic (alkyl)(amino)carbenes (CAACs): stable carbenes on the rise. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 256-66	24.3	612
411	Stable singlet carbenes as mimics for transition metal centers. <i>Chemical Science</i> , <b>2011</b> , 2, 389-399	9.4	511
410	Cyclic (Alkyl)(amino)carbenes (CAACs): Recent Developments. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 10046-10068	16.4	462
409	Synthesis and characterization of a neutral tricoordinate organoboron isoelectronic with amines. <i>Science</i> , <b>2011</b> , 333, 610-3	33.3	440
408	31P NMR chemical shifts of carbene-phosphinidene adducts as an indicator of the accepting properties of carbenes. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 2939-43	16.4	387
407	Synthesis of an extremely bent acyclic allene (a "carbodicarbene"): a strong donor ligand. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 3206-9	16.4	386
406	A Brief Survey of our Contribution to Stable Carbene Chemistry. <i>Organometallics</i> , <b>2011</b> , 30, 5304-5313	3.8	371
405	Carbene-Stabilized Main Group Radicals and Radical Ions. <i>Chemical Science</i> , <b>2013</b> , 4, 3020-3030	9.4	370
404	Isolation of a C5-deprotonated imidazolium, a crystalline "abnormal" N-heterocyclic carbene. <i>Science</i> , <b>2009</b> , 326, 556-9	33.3	366
403	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</i> , <b>2005</b> , 117, 5851-5855	3.6	352
402	Stabile cyclische Carbene und verwandte Spezies jenseits der Diaminocarbene. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 8992-9032	3.6	342
401	Homogeneous catalytic hydroamination of alkynes and allenes with ammonia. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 5224-8	16.4	329

3400	Crystalline 1H-1,2,3-triazol-5-ylidenes: new stable mesoionic carbenes (MICs). <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 4759-62	16.4	324
399	Eliminating nonradiative decay in Cu(I) emitters: >99% quantum efficiency and microsecond lifetime. <i>Science</i> , <b>2019</b> , 363, 601-606	33.3	271
398	Singlet diradicals: from transition states to crystalline compounds. <i>Science</i> , <b>2002</b> , 295, 1880-1	33.3	268
397	Nonmetal-mediated fragmentation of P4: isolation of P1 and P2 bis(carbene) adducts. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 5530-3	16.4	265
396	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> , <b>2007</b> , 104, 13569-73	11.5	265
395	Carbene activation of P4 and subsequent derivatization. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 7052-5	16.4	262
394	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> , <b>2006</b> , 45, 3488-91	16.4	257
393	[Bis(diisopropylamino)phosphino]trimethylsilylcarbene: A Stable Nucleophilic Carbene. <i>Angewandte Chemie International Edition in English</i> , <b>1989</b> , 28, 621-622		251
392	Isolation of crystalline carbene-stabilized P(2)-radical cations and P(2)-dications. <i>Nature Chemistry</i> , <b>2010</b> , 2, 369-73	17.6	248
391	A rigid cyclic (alkyl)(amino)carbene ligand leads to isolation of low-coordinate transition-metal complexes. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 7236-9	16.4	248
390	NHC-mediated aggregation of P4: isolation of a P12 cluster. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 14180-1	16.4	237
389	Cyclopropenylidenes: from interstellar space to an isolated derivative in the laboratory. <i>Science</i> , <b>2006</b> , 312, 722-4	33.3	221
388	Intramolecular "hydroiminiumation" of alkenes: application to the synthesis of conjugate acids of cyclic alkyl amino carbenes (CAACs). <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 2899-902	16.4	214
387	Synthesis and reactivity of a CAAC-aminoborylene adduct: a hetero-allene or an organoboron isoelectronic with singlet carbenes. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 13159-63	16.4	207
386	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> , <b>2009</b> , 131, 8690-6	16.4	206
385	Serendipitous discovery of the catalytic hydroammoniumation and methylamination of alkynes. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 942-5	16.4	200
384	1,2,4-Triazole-3,5-diylidene: A Building Block for Organometallic Polymer Synthesis. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 6668-6669	16.4	196
383	A Singlet Phosphinidene Stable at Room Temperature. <i>CheM</i> , <b>2016</b> , 1, 147-153	16.2	191

- 382 Isolation of a carbene-stabilized phosphorus mononitride and its radical cation (PN<sup>+</sup>\*). *Angewandte Chemie - International Edition*, **2010**, 49, 5930-3 16.4 187
- 381 Synthesis and ligand properties of stable five-membered-ring allenes containing only second-row elements. *Angewandte Chemie - International Edition*, **2008**, 47, 5411-4 16.4 187
- 380 Cyclische Alkylaminocarbene (CAACs): Neues von guten Bekannten. *Angewandte Chemie*, **2017**, 129, 10180-10203 16.4 185
- 379 Activation of Si-H, B-H, and P-H bonds at a single nonmetal center. *Angewandte Chemie - International Edition*, **2010**, 49, 9444-7 16.4 174
- 378 A crystalline phosphinyl radical cation. *Journal of the American Chemical Society*, **2010**, 132, 10262-3 16.4 169
- 377 Stable non-N-heterocyclic carbenes (non-NHC): recent progress. *Journal of Organometallic Chemistry*, **2004**, 689, 3857-3865 2.3 167
- 376 Synthesis, reactivity, and ligand properties of a stable alkyl carbene. *Journal of the American Chemical Society*, **2004**, 126, 8670-1 16.4 164
- 375 <sup>31</sup>P NMR Chemical Shifts of Carbene-Phosphinidene Adducts as an Indicator of the  $\pi$ -Accepting Properties of Carbenes. *Angewandte Chemie*, **2013**, 125, 3011-3015 3.6 159
- 374 Synthesis of Highly Stable 1,3-Diaryl-1H-1,2,3-triazol-5-ylidenes and their Applications in Ruthenium-Catalyzed Olefin Metathesis. *Organometallics*, **2011**, 30, 2617-2627 3.8 159
- 373 Gold-catalyzed hydroamination of alkynes and allenes with parent hydrazine. *Angewandte Chemie - International Edition*, **2011**, 50, 5560-3 16.4 156
- 372 Isolation of bis(copper) key intermediates in Cu-catalyzed azide-alkyne "click reaction". *Science Advances*, **2015**, 1, e1500304 14.3 148
- 371 A stable P-heterocyclic carbene. *Angewandte Chemie - International Edition*, **2005**, 44, 1700-3 16.4 147
- 370 Cyclic alkyl amino carbene (CAAC) ruthenium complexes as remarkably active catalysts for ethenolysis. *Angewandte Chemie - International Edition*, **2015**, 54, 1919-23 16.4 139
- 369 Intramolecular "hydroiminiumation and -amidiniumation" of alkenes: a convenient, flexible, and scalable route to cyclic iminium and imidazolium salts. *Journal of Organic Chemistry*, **2007**, 72, 3492-9 4.2 138
- 368 (Amino)(aryl)carbenes: stable singlet carbenes featuring a spectator substituent. *Science*, **2001**, 292, 1901-3 33.3 138
- 367 A cationic gold(I) complex as a general catalyst for the intermolecular hydroamination of alkynes: application to the one-pot synthesis of allenes from two alkynes and a sacrificial amine. *Chemistry - A European Journal*, **2009**, 15, 3056-60 4.8 134
- 366 Synthesis of 4- and 4,5-functionalized imidazol-2-ylidenes from a single 4,5-unsubstituted imidazol-2-ylidene. *Journal of the American Chemical Society*, **2010**, 132, 7264-5 16.4 133
- 365 Nonmetal-Mediated Fragmentation of P<sub>4</sub>: Isolation of P<sub>1</sub> and P<sub>2</sub> Bis(carbene) Adducts. *Angewandte Chemie*, **2009**, 121, 5638-5641 3.6 132

364	Gold-catalyzed intermolecular Markovnikov hydroamination of allenes with secondary amines. <i>Organic Letters</i> , <b>2009</b> , 11, 3166-9	6.2	132
363	Carbene Activation of P4 and Subsequent Derivatization. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 7182-7185	3.6	131
362	Neutral and Cationic Tetracoordinated Aluminum Complexes Featuring Tridentate Nitrogen Donors: Synthesis, Structure, and Catalytic Activity for the Ring-Opening Polymerization of Propylene Oxide and (d,l)-Lactide. <i>Organometallics</i> , <b>1998</b> , 17, 3599-3608	3.8	131
361	CO Fixation to Stable Acyclic and Cyclic Alkyl Amino Carbenes: Stable Amino Ketenes with a Small HOMO-LUMO Gap. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 3568-3571	3.6	128
360	Synthesis and reactivity of olefin metathesis catalysts bearing cyclic (alkyl)(amino)carbenes. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 7262-5	16.4	126
359	Kinetic Selectivity of Olefin Metathesis Catalysts Bearing Cyclic (Alkyl)(Amino)Carbenes. <i>Organometallics</i> , <b>2008</b> , 27, 563-566	3.8	123
358	Chemistry. Soluble allotropes of main-group elements. <i>Science</i> , <b>2008</b> , 321, 1050-1	33.3	122
357	Homogeneous Catalytic Hydroamination of Alkynes and Allenes with Ammonia. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 5302-5306	3.6	121
356	An efficient synthetic route to stable bis(carbene)borylenes [(L1)(L2)BH]. <i>Chemical Communications</i> , <b>2014</b> , 50, 7837-9	5.8	120
355	Cyclic (Alkyl)(amino)carbene Gold(I) complexes: A Synthetic and Structural Investigation. <i>Journal of Organometallic Chemistry</i> , <b>2008</b> , 693, 1674-1682	2.3	120
354	Stable versions of transient push-pull carbenes: extending lifetimes from nanoseconds to weeks. <i>Science</i> , <b>2000</b> , 288, 834-6	33.3	119
353	Singlet (Phosphino)phosphinidenes are Electrophilic. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8356-9	16.4	118
352	Stable planar six-pi-electron six-membered N-heterocyclic carbenes with tunable electronic properties. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 10182-3	16.4	115
351	Borylene complexes (BH)L2 and nitrogen cation complexes (N+)L2: isoelectronic homologues of carbenes CL2. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 5676-92	4.8	114
350	Gold-catalyzed hydroarylation of alkenes with dialkylanilines. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 13594-7	16.4	112
349	Deprotonation of a borohydride: synthesis of a carbene-stabilized boryl anion. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 7590-2	16.4	111
348	Synthesis and ligand properties of a persistent, all-carbon four-membered-ring allene. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 4792-5	16.4	111
347	Isolation of neutral mono- and dinuclear gold complexes of cyclic (alkyl)(amino)carbenes. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 8964-7	16.4	110

- 346 A crystalline singlet phosphinonitrene: a nitrogen atom-transfer agent. *Science*, **2012**, 337, 1526-8 33.3 109
- 345 Intramolecular Hydroiminiumation of Alkenes: Application to the Synthesis of Conjugate Acids of Cyclic Alkyl Amino Carbenes (CAACs). *Angewandte Chemie*, **2007**, 119, 2957-2960 3.6 109
- 344 A Rigid Cyclic (Alkyl)(amino)carbene Ligand Leads to Isolation of Low-Coordinate Transition-Metal Complexes. *Angewandte Chemie*, **2005**, 117, 7402-7405 3.6 109
- 343 Borylenes: An Emerging Class of Compounds. *Angewandte Chemie - International Edition*, **2017**, 56, 10282-10292 16.4 108
- 342 A cyclic diaminocarbene with a pyramidalized nitrogen atom: a stable N-heterocyclic carbene with enhanced electrophilicity. *Angewandte Chemie - International Edition*, **2012**, 51, 6172-5 16.4 108
- 341 Exocyclic delocalization at the expense of aromaticity in 3,5-bis(pi-donor) substituted pyrazolium ions and corresponding cyclic bent allenes. *Journal of the American Chemical Society*, **2009**, 131, 11875-81 16.4 108
- 340 [Bis(diisopropylamino)phosphino]trimethylsilyl-carben: Ein stabiles nucleophiles Carben. *Angewandte Chemie*, **1989**, 101, 617-618 3.6 107
- 339 1 H-1,2,3-Triazol-5-ylidenes: Readily Available Mesoionic Carbenes. *Accounts of Chemical Research*, **2018**, 51, 3236-3244 24.3 106
- 338 Stable abnormal N-heterocyclic carbenes and their applications. *Chemical Society Reviews*, **2020**, 49, 12338-12521 38.3 105
- 337 Cyclic (Amino)(aryl)carbenes (CAACs) as Strong Donating and Accepting Ligands for Transition Metals. *Angewandte Chemie - International Edition*, **2015**, 54, 14915-9 16.4 104
- 336 "Quick-Silver" from a Systematic Study of Highly Luminescent, Two-Coordinate, d Coinage Metal Complexes. *Journal of the American Chemical Society*, **2019**, 141, 8616-8626 16.4 102
- 335 Synthesis and Reactivity of a CAAC-Aminoborylene Adduct: A Hetero-Allene or an Organoboron Isoelectronic with Singlet Carbenes. *Angewandte Chemie*, **2014**, 126, 13375-13379 3.6 102
- 334 DBU and DBN are Strong Nucleophiles: X-Ray Crystal Structures of Onio- and Dionio-Substituted Phosphanes. *Angewandte Chemie International Edition in English*, **1993**, 32, 399-401 102
- 333 Isolation of Au-, Co-PCO and Cu-PCO complexes, conversion of an Ir-PCO complex into a dimetalladiphosphene, and an interaction-free PCO anion. *Chemical Science*, **2016**, 7, 2335-2341 9.4 101
- 332 Two-coordinate Fe and Co complexes supported by cyclic (alkyl)(amino)carbenes. *Angewandte Chemie - International Edition*, **2014**, 53, 8427-31 16.4 101
- 331 Bis(1,2,3-triazol-5-ylidenes) (i-bitz) as Stable 1,4-Bidentate Ligands Based on Mesoionic Carbenes (MICs). *Organometallics*, **2011**, 30, 6017-6021 3.8 101
- 330 Mono- and diaminocarbenes from chloroiminium and -amidinium salts: synthesis of metal-free bis(dimethylamino)carbene. *Journal of the American Chemical Society*, **2004**, 126, 1016-7 16.4 99
- 329 One-, two-, and three-electron reduction of a cyclic alkyl(amino)carbene-SbCl<sub>5</sub> adduct. *Angewandte Chemie - International Edition*, **2014**, 53, 8176-9 16.4 98

- 328 Cyclic (Alkyl)- and (Aryl)-(amino)carbene Coinage Metal Complexes and Their Applications. *Chemical Reviews*, **2020**, 120, 4141-4168 68.1 96
- 327 Bottleable (amino)(carboxy) radicals derived from cyclic (alkyl)(amino) carbenes. *Journal of the American Chemical Society*, **2013**, 135, 18766-9 16.4 95
- 326 N-Heterocyclic carbenes versus transition metals for stabilizing phosphinyl radicals. *Chemical Science*, **2011**, 2, 858 9.4 94
- 325 Crystalline 1H-1,2,3-Triazol-5-ylidenes: New Stable Mesoionic Carbenes (MICs). *Angewandte Chemie*, **2010**, 122, 4869-4872 3.6 94
- 324 Protonolysis of a ruthenium-carbene bond and applications in olefin metathesis. *Journal of the American Chemical Society*, **2011**, 133, 8498-501 16.4 93
- 323 Comparative reactivity of different types of stable cyclic and acyclic mono- and diamino carbenes with simple organic substrates. *Journal of the American Chemical Society*, **2014**, 136, 5023-30 16.4 92
- 322 Nitrile Imines: From Matrix Characterization to Stable Compounds. *Angewandte Chemie International Edition in English*, **1994**, 33, 527-545 92
- 321 Aluminum Chloride-Promoted Transamidation Reactions. *Journal of Organic Chemistry*, **1994**, 59, 4035-4036 92
- 320 Catalyst-free dehydrocoupling of amines, alcohols, and thiols with pinacol borane and 9-borabicyclononane (9-BBN). *Chemical Communications*, **2016**, 52, 10563-5 5.8 90
- 319 Serendipitous Discovery of the Catalytic Hydroammoniation and Methylamination of Alkynes. *Angewandte Chemie*, **2010**, 122, 954-957 3.6 89
- 318 Synthesis and Ligand Properties of Stable Five-Membered-Ring Allenes Containing Only Second-Row Elements. *Angewandte Chemie*, **2008**, 120, 5491-5494 3.6 88
- 317 Stable (amino)(phosphino)carbenes: difunctional molecules. *Journal of the American Chemical Society*, **2002**, 124, 6806-7 16.4 88
- 316 Transition-Metal-like Behavior of Main Group Elements: Ligand Exchange at a Phosphinidene. *Journal of the American Chemical Society*, **2016**, 138, 15885-15888 16.4 87
- 315 Synthesis of Hemilabile Cyclic (Alkyl)(amino)carbenes (CAACs) and Applications in Organometallic Chemistry. *Journal of the American Chemical Society*, **2016**, 138, 7884-7 16.4 83
- 314 Isolation of a Carbene-Stabilized Phosphorus Mononitride and Its Radical Cation (PN<sup>+</sup>). *Angewandte Chemie*, **2010**, 122, 6066-6069 3.6 83
- 313 Air-Stable (CAAC)CuCl and (CAAC)CuBH<sub>4</sub> Complexes as Catalysts for the Hydrolytic Dehydrogenation of BH<sub>3</sub>NH<sub>3</sub>. *Angewandte Chemie - International Edition*, **2015**, 54, 6008-11 16.4 82
- 312 Stability and electronic properties of imidazole-based mesoionic carbenes. *Chemistry - A European Journal*, **2011**, 17, 8269-72 4.8 82
- 311 Isolation of cyclopropenyliidene-lithium adducts: the Weiss-Yoshida reagent. *Angewandte Chemie - International Edition*, **2006**, 45, 6652-5 16.4 82

310	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> , <b>2014</b> , 50, 2431-3	5.8	81
309	Radical-type reactivity of the 1,3-dibora-2,4-diphosphoniocyclobutane-1,3-diyl. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 1344-5	16.4	79
308	Synthesis, reactivity, and crystal structure of the first methylenephosphonium ion: a severely twisted valence isoelectronic olefin. <i>Journal of the American Chemical Society</i> , <b>1989</b> , 111, 6853-6854	16.4	79
307	Air-persistent monomeric (amino)(carboxy) radicals derived from cyclic (alkyl)(amino) carbenes. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7519-25	16.4	76
306	Sigma-bond stretching: a static approach for a dynamic process. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 585-7	16.4	76
305	Coinage metals binding as main group elements: structure and bonding of the carbene complexes [TM(cAAC) <sub>2</sub> ] and [TM(cAAC) <sub>2</sub> ] <sup>+</sup> (TM = Cu, Ag, Au). <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 17123-35	16.4	73
304	Exploring the reactivity of white phosphorus with electrophilic carbenes: synthesis of a P <sub>4</sub> cage and P <sub>8</sub> clusters. <i>Chemical Communications</i> , <b>2013</b> , 49, 4486-8	5.8	71
303	Synthesis of a room-temperature-stable dimeric copper(I) hydride. <i>Chemistry - an Asian Journal</i> , <b>2011</b> , 6, 402-5	4.5	71
302	Amino-aryl-carbenes: alternative ligands for transition metals?. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 1342-3	16.4	71
301	Synthesis and x-ray crystal structure of [(iso-Pr <sub>2</sub> N) <sub>2</sub> P(H)CP(N-iso-Pr <sub>2</sub> ) <sub>2</sub> ]+CF <sub>3</sub> SO <sub>3</sub> <sup>-</sup> : a carbene, a cumulene, or a phosphaacetylene?. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 10959-10961	16.4	71
300	Highly Ambiphilic Room Temperature Stable Six-Membered Cyclic (Alkyl)(amino)carbenes. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9255-9260	16.4	69
299	Activation of Si-H, B-H, and P-H Bonds at a Single Nonmetal Center. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 9634-9637	3.6	67
298	Isolation of a benzene valence isomer with one-electron phosphorus-phosphorus bonds. <i>Science</i> , <b>1998</b> , 279, 2080-2	33.3	67
297	Synthesis of the first .alpha.-diazophosphines. Phosphorous-carbon multiple-bond character of phosphinocarbenes. <i>Journal of the American Chemical Society</i> , <b>1985</b> , 107, 4781-4783	16.4	67
296	Singlet carbenes as mimics for transition metals: synthesis of an air stable organic mixed valence compound [M <sub>2</sub> (C <sub>2</sub> ) <sup>+</sup> ] <sup>+</sup> M = cyclic(alkyl)(amino)carbene]. <i>Organic Chemistry Frontiers</i> , <b>2014</b> , 1, 351-354	5.2	66
295	A New Synthetic Method for the Preparation of Protonated-NHCs and Related Compounds. <i>Journal of Organometallic Chemistry</i> , <b>2006</b> , 691, 3201-3205	2.3	66
294	Synthesis and structure of the first cyclodiphosphazene. Dimerization of a phosphonitrile :P.tplbond.N. <i>Journal of the American Chemical Society</i> , <b>1984</b> , 106, 6088-6089	16.4	65
293	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> , <b>2000</b> , 600, 112-117	2.3	64



292	Isolation of neutral mononuclear copper complexes stabilized by two cyclic (alkyl)(amino)carbenes. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 6235-8	16.4	63
291	Persistent (amino)(silyl)carbenes. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 7312-3	16.4	63
290	Bicyclic (Alkyl)(amino)carbenes (BICAACs): Stable Carbenes More Ambiphilic than CAACs. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 7753-7756	16.4	62
289	Anti-Bredt N-heterocyclic carbene: an efficient ligand for the gold(I)-catalyzed hydroamination of terminal alkynes with parent hydrazine. <i>Chemical Communications</i> , <b>2013</b> , 49, 4483-5	5.8	62
288	Isolation of a Lewis base stabilized parent phosphonium (PH <sub>2</sub> (+)) and related species. <i>Chemical Communications</i> , <b>2015</b> , 51, 12732-12735	5.8	61
287	A rhodium(I)-oxygen adduct as a selective catalyst for one-pot sequential alkyne dimerization-hydrothiolation tandem reactions. <i>Chemical Communications</i> , <b>2016</b> , 52, 3504-7	5.8	61
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26	(CAAC)Copper Catalysis Enables Regioselective Three-Component Carboboration of Terminal Alkynes. <i>ACS Catalysis</i> , <b>2024</b> , 7243-7247	13.1	5
25	Oxidation of a stable 1,3-diborata-2,4-diphosphonio-cyclobutane-1,3-diyl. <i>Main Group Chemistry</i> , <b>2010</b> , 9, 101-109	0.6	4
24	Synthesis of extended polyphosphacumulenes. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 8444-50	4.8	4
23	The First Coordination of an ( $\beta$ Diazo)phosphine to a Transition-Metal Center. <i>Organometallics</i> , <b>2003</b> , 22, 1358-1360	3.8	4

22	The peculiar behavior of a diphosphirenium salt towards sodium $\beta$ -cyclopentadienyl(dicarbonyl)ferrate. <i>Journal of Organometallic Chemistry</i> , <b>2000</b> , 613, 33-36	2.3	4
21	Synthesis and multinuclear NMR characterization of iminophosphoranyl phosphines and silanes. <i>Heteroatom Chemistry</i> , <b>1996</b> , 7, 403-408	1.2	4
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19	Readily Available Primary Aminoboranes as Powerful Reagents for Aldimine Synthesis. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2901-2904	3.6	4
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13	2,2,4,4-Tetrabromo-1,1,3,3-tetramethylcycloborazane. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2007</b> , 63, o4476-o4476		2
12	Effects of a Strong Electron-Withdrawing N-Boryl Substituent on the Stability of Nitrilimines: Surprising Dimerization Involving the Nitrilimine Heteroatom Substituents with Formation of (Fused) Bicyclic [3.3.0] and [4.3.0] Derivatives. <i>Organometallics</i> , <b>1994</b> , 13, 2913-2916	3.8	2
11	SYNTHÈSE DE LA d,l-(ACETOXY-2 OCTADECYLTHIO-1) PROPYL-3 PHOSPHORYLCHOLINE OU THIA-PAF. <i>Phosphorous and Sulfur and the Related Elements</i> , <b>1984</b> , 21, 171-176		2
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9	Titelbild: Bond Activation with an Apparently Benign Ethynyl Dithiocarbamate Ar <sup>+</sup> C <sup>-</sup> C <sup>-</sup> S <sup>-</sup> C(S)NR <sub>2</sub> (Angew. Chem. 42/2011). <i>Angewandte Chemie</i> , <b>2011</b> , 123, 9933-9933	3.6	1
8	Use of Tin Derivatives for the Synthesis of Polyphosphazenes Featuring Phosphorus-Carbon Bonds. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , <b>1993</b> , 76, 211-214	1	1
7	Synthesis and Reactivity of Cyclic 4-Electron Ylides: Non-Antiaromatic Inorganic Ring Systems. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , <b>1994</b> , 93, 1-12	1	1
6	Stable Singlet Carbenes as Organic Superbases. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 27253	16.4	1
5	Cyclic (Alkyl)(amino)carbene Ligands Enable Cu-Catalyzed Markovnikov Protoboration and Protosilylation of Terminal Alkynes: A Versatile Portal to Functionalized Alkenes**. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 20024-20031	3.6	0



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- 3 Cover Picture: Bond Activation with an Apparently Benign Ethynyl Dithiocarbamate  $\text{Ar}^2\text{C}=\text{C}=\text{S}=\text{C}(\text{S})\text{NR}_2$  (Angew. Chem. Int. Ed. 42/2011). *Angewandte Chemie - International Edition*, **2011**, 50, 9759-9759 16.4
- 2 Cover Picture: Bond Stretching: A Static Approach for a Dynamic Process (Angew. Chem. Int. Ed. 5/2004). *Angewandte Chemie - International Edition*, **2004**, 43, 531-531 16.4
- 1 Phosponitriles: Powerful Intermediates in Heterocyclic Chemistry. *Phosphorous and Sulfur and the Related Elements*, **1987**, 30, 797-797