

## List of Publications

### 2025

116. D. Gaviña, Z. Feng, D. Herrero, M. Simon, C. Golz, M. Alcarazo.  
Introducing the Cis-2,3-Bis(trifluoromethyl)cyclopropyl Chemotype: Late-Stage Installation and Stereoelectronic Properties.  
*ChemistryEurope* **2025**, e202500384.
115. W. Fu, M. Simon, C. Golz, M. Alcarazo.  
Enantioselective synthesis and racemization dynamics of trithia[5]helicenes derived from the dithieno[2,3-*b*:30,20-*d*]-thiophene unit.  
*Chem. Sci.* **2025**, 19172-19177.
114. S.B.H. Karnbrock, J.F. Köster, I. Becker, C. Golz, F. Meyer, M. Gimferrer, M. Alcarazo.  
Bis(amidophenolate)-supported pnictoranides: Lewis acid-induced electromerism in a bismuth complex.  
*Chem. Sci.* **2025**, *16*, 14178-14185.
113. S. Timmann, M.T.H. Dilchert, J. Dietzel, V.S. Pölt, M.R. Wennkamp, C. Golz, M. Alcarazo.  
A Photocatalytic Approach to Radical 1-(Trifluoromethyl)cyclopropanation.  
*ACS. Catal.* **2025**, *15*, 7232-7240.
112. S.B.H. Karnbrock, J.F. Köster, C. Golz, R.A. Mata, M. Alcarazo.  
Isolation of a Square Pyramidal Bis(amidophenolate)-Supported As(III)-Cation: Coordination-Induced Electromerism at As.  
*Angew. Chem. Int. Ed.* **2025**, e202501439.
111. M. Alcarazo.  
Dibenzothiophenium Salts: Practical Alternatives to Hypervalent I(III)-Based Reagents.  
*Acc. Chem. Res.* **2025**, *58*, 635-646.
110. D. Rösch, C. Golz, M. Alcarazo.  
Pyrrolo[1,2-*c*]pyrimidin-1-ylidene: A Diamino Carbene Embedded in a Six-Membered Aromatic Scaffold.  
*Organometallics* **2025**, *44*, 179-188.

## 2024

109. S. Timmann, Z. Feng, M. Alcarazo.  
Recent Applications of Sulfonium Salts in Synthesis and Catalysis.  
*Chem. Eur. J.* **2024**, *30*, e202402768.
108. W. Fu, V. Pelliccioli, R. Casares-López, J.M. Cuerva, M. Simon, C. Golz, M. Alcarazo  
Enantioselective Synthesis, (Chir)optical Properties, and Postsynthetic  
Functionalization of Furan-Containing Oxa[5]-, Oxa[6]-, and Dioxo[6]helicenes.  
*CCS Chem.* **2024**, *6*, 2439-2451.
107. S.B.H. Karnbrock, C. Golz, M. Alcarazo.  
P(v)-bis(amidophenolate) ligand cooperation: stoichiometric C=O-bond cleavage in  
aldehydes and ketones.  
*Chem. Commun.* **2024**, *60*, 6745-6748.
106. T. Heilmann, J.M. Lopez-Soria, J. Ulbrich, J. Kircher, Z. Li, B. Worbs, C. Golz, R.A.  
Mata, M. Alcarazo  
N-(Sulfonio)Sulfilimine Reagents: Non-Oxidizing Sources of Electrophilic Nitrogen  
Atom for Skeletal Editing.  
*Angew. Chem. Int. Ed.* **2024**, e202403826.
105. S. Timmann, T-H. Wu, C. Golz, M. Alcarazo  
Reactivity of  $\alpha$ -diazo sulfonium salts: rhodium-catalysed ring expansion of indenenes to  
naphthalenes.  
*Chem. Sci.* **2024**, *15*, 5938-5943.
104. B. Worbs, S. Timmann, F. Peng, R. Zhao, M. Alcarazo  
Synthesis of 5-(1-Diazo-2-ethoxy-2-oxoethyl) dibenzo[*b,d*]thiophenium Triflate.  
*Org. Synth.* **2024**, *101*, 109-123.
103. M. Recort-Fornals, X. Marset, M. Simon, C. Golz, D.J. Ramón, M. Alcarazo  
Photocatalytic Functionalization of  
Heptacyclo[6.6.0.0.2,6.0.3,13.0.4,11.0.5,9.0.10,14]Tetradecane.  
*Adv. Synth. Catal.* **2024**, *366*, 877-883.

## 2023

102. S.B.H. Karnbrock, M. Alcarazo  
Cooperation between p-Block Elements and Redox-Active Ligands: Stoichiometric and Catalytic Transformations.  
*Chem. Eur. J.* **2023**, e202302879.
101. H.D. Doan, C. Rugen, C. Golz, M. Alcarazo  
Synthesis of (±)-Angustatin A: Assembly of the Phenanthrene Moiety Despite Increasing Ring Strain.  
*Organic Letters* **2023**, 25, 7181-7185.
100. Z. Feng, L. Riemann, Z. Guo, D. Herrero, M. Simon, C. Golz, R.A. Mata, M. Alcarazo  
Pentafluorocyclopropanation of (Hetero)arenes Using Sulfonium Salts: Applications in Late-Stage Functionalization.  
*Angew. Chem. Int. Ed.* **2023**, e202306764.
99. S. Timmann, M. Alcarazo  
 $\alpha$ -Diazo- $\lambda^3$ -iodanes and  $\alpha$ -diazo sulfonium salts: the umpolung of diazo compounds.  
*Chem. Commun.* **2023**, 59, 8032-8042.
98. W. Fu, V. Pelliccioli, M. von Geyso, P. Redero, C. Böhmer, M. Simon, C. Golz, M. Alcarazo  
Enantioselective Au-Catalyzed Synthesis of Thia[5]- and Thia[6]helicenes and Their Transformation into Bowl-shaped Pleiadenes.  
*Adv. Mater.* **2023**, 2211279.
97. Feng, X. Marset, J. Tostado, J. Kircher, Z. She, C. Golz, R.A. Mata, M. Simon, M. Alcarazo  
5-(Trifluorovinyl)dibenzothiophenium Triflate: Introducing the 1,1,2-Trifluoroethylene Tether in Drug-Like Structures.  
*Chem. Eur. J.* **2023**, e202203966.

## 2022

96. J. Zhang, M. Simon, C. Golz, M. Alcarazo  
Enantioselective Synthesis of [5]Helicenes Containing Two Additional Chiral Axes.  
*Isr. J. Chem.* **2022**, e202200043.
95. S.B.H. Karnbrock, C. Golz, R.A. Mata, M. Alcarazo  
Ligand Enabled Disproportionation of 1,2-Diphenylhydrazine at a P(V)-Center.  
*Angew. Chem.Int. Ed.* **2022**, e202207450.
94. V. Pelliccioli, T. Hartung, M. Simon, C. Golz, E. Licandro, S. Cauteruccio, M. Alcarazo  
Enantioselective Synthesis of Dithia[5]helicenes and their Postsynthetic Functionalization to Access Dithia[9]helicenes.  
*Angew. Chem.Int. Ed.* **2022**, 61, e202114577.
93. C.J. Rugen, M. Alcarazo  
 $\alpha$ -Cationic Phosphines: from Curiosities to Powerful Ancillary Ligands.  
*Synlett* **2022**, 33, 16-26.

## 2021

92. S. Suárez-Pantiga, P. Redero, X. Aniban, M. Simon, C. Golz, R.A. Mata, M. Alcarazo  
In-Fjord Substitution in Expanded Helicenes: Effects of the Insert on the Inversion  
Barrier and Helical Pitch.  
*Chem. Eur. J.* **2021**, *27*, 13358-13366.
91. V. Laserna, A. Istrate, K. Kafuta, T.A. Hakala, T.P.J. Knowles, M. Alcarazo, G.J.L.  
Bernardes  
Protein Conjugation by Electrophilic Alkynylation Using 5-  
(Alkynyl)dibenzothiophenium Triflates.  
*Bioconjugate Chem.* **2021**, *32*, 1570-1575.
90. K. Kafuta, C.J. Rugen, T. Heilmann, T. Liu, C. Golz, M. Alcarazo  
Reactivity of 5-(Alkynyl)dibenzothiophenium Salts: Synthesis of Dynes, Vinyl  
Sulfones, and Phenanthrenes.  
*Eur. J. Org. Chem.* **2021**, 4038-4048.
89. X. Maset, M. Recort-Fornals, M. Kpante, A. Zieliński, C. Golz, L.M. Wolf,  
M. Alcarazo  
Towards an Effective Synthesis of Difunctionalized Heptacyclo  
[6.6.0.0<sup>2,6</sup>.0<sup>3,13</sup>.0<sup>4,11</sup>.0<sup>5,9</sup>.0<sup>10,14</sup>]tetradecane: Ligand Effects on the Cage Assembly and  
Selective C–H Arylation Reactions.  
*Adv. Synth. Catal.* **2021**, *363*, 3546-3553.
88. Z. Li, G. Vijaykumar, X. Li, C. Golz, M. Alcarazo  
5-(Diarylimino)- and 5-(sulfoximido)dibenzothiophenium triflates: syntheses and  
applications as electrophilic aminating reagents.  
*Org. Biomol. Chem.* **2021**, *19*, 2941-2948.
87. S. Karreman, S.B.H. Karnbrock, S. Kolle, C. Golz, M. Alcarazo  
Synthesis of 6*H*-Benzo[*c*]chromene Scaffolds from *O*-Benzylated Phenols through a  
C-H Sulfenylation/Radical Cyclization Sequence.  
*Org. Lett.* **2021**, *23*, 1991-1995.
86. X. Li, C. Golz, M. Alcarazo  
 $\alpha$ -Diazo Sulfonium Triflates: Synthesis, Structure, and Application to the Synthesis of  
1-(Dialkylamino)-1,2,3-triazoles.  
*Angew. Chem. Int. Ed.* **2021**, *60*, 6943–6948.

## 2020

85. P. Redero, T. Hartung, J. Zhang, L.D.M. Nicholls, G. Zichen, M. Simon, C. Golz, M. Alcarazo  
Enantioselective Synthesis of 1-Aryl Benzo[5]helicenes Using BINOL-Derived Cationic Phosphonites as Ancillary Ligands.  
*Angew. Chem. Int. Ed.* **2020**, *59*, 23527-23531.
84. A. Zieliński, X. Marset, C. Golz, L.M. Wolf, M. Alcarazo  
Two-Step Synthesis of Heptacyclo[6.6.0.0<sup>2,6</sup>.0<sup>3,13</sup>.0<sup>4,11</sup>.0<sup>5,9</sup>.0<sup>10,14</sup>] tetradecane from Norbornadiene: Mechanism of the Cage Assembly and Post-synthetic Functionalization.  
*Angew. Chem. Int. Ed.* **2020**, *59*, 23299-23305.
83. T. Johannsen, C. Golz, M. Alcarazo  
 $\alpha$ -Cationic Phospholes: Synthesis and Applications as Ancillary Ligands.  
*Angew. Chem. Int. Ed.* **2020**, *59*, 22779-22784.
82. K. Kafuta, C. Golz, M. Alcarazo  
Polymorphism of bis(1,3-benzothiazol-2-yl) trithiocarbonate.  
*Acta Crystallogr. Sect E* **2020**, *E76*, 1126-1130.
81. K. Sprenger, C. Golz, M. Alcarazo  
Synthesis of Cycloheptatrienes, Oxepines, Thiepinines, and Silepinines: A Comparison between Brønsted Acid and Au-Catalysis.  
*Eur. J. Org. Chem.* **2020**, 6245-6254.
80. S.I. Kozhushkov, M. Alcarazo  
Synthetic Applications of Sulfonium Salts.  
*Eur. J. Inorg. Chem.* **2020**, 2486-2500.
79. M. Zhao, A.G. Barrado, K. Sprenger, C. Golz, R.A. Mata, M. Alcarazo  
Electrophilic Cyanative Alkenylation of Arenes.  
*Org. Lett.* **2020**, *22*, 4932-4937.
78. J. Zhang, M. Simon, C. Golz, M. Alcarazo  
Gold-Catalyzed Atroposelective Synthesis of 1,1'-Binaphthalene-2,3'-diols.  
*Angew. Chem. Int. Ed.* **2020**, *59*, 5647-5650.
77. T. Hartung, R. Machleid, M. Simon, C. Golz, M. Alcarazo  
Enantioselective Synthesis of 1,12-Disubstituted [4]Helicenes.  
*Angew. Chem. Int. Ed.* **2020**, *59*, 5660-5664.
76. K. Kafuta, A. Korzun, M. Böhm, C. Golz, M. Alcarazo  
Synthesis, Structure, and Reactivity of 5-(Aryl)dibenzothiophenium Triflates.  
*Angew. Chem. Int. Ed.* **2020**, *59*, 1950-1955.

## 2019

75. B. Waldecker, K. Kafuta, M. Alcarazo  
Preparation of 5-(Triisopropylalkynyl) dibenzo[*b,d*]thiophenium triflate.  
*Org. Synth.* **2019**, *96*, 258-276.
74. K.F.G. Averagesch, H. Pesch, C. Golz, M. Alcarazo  
Synthesis of Alkynylthiopyridinium Salts and Their Use as Thioketene Equivalents.  
*Chem. Eur. J.* **2019**, *25*, 10472-10477.
73. X. Li, C. Golz, M. Alcarazo  
5-(Cyano)dibenzothiophenium Triflate: A Sulfur-Based Reagent for Electrophilic Cyanation and Cyanocyclizations.  
*Angew. Chem. Int. Ed.* **2019**, *58*, 9496-9500.
72. L.D.M. Nicholls, M. Alcarazo  
Applications of  $\alpha$ -Cationic Phosphines as Ancillary Ligands in Homogeneous Catalysis.  
*Chem. Lett.* **2019**, *48*, 1-13.

## 2018

71. H. Tinnermann, L.D.M. Nicholls, T. Johannsen, C. Wille, C. Golz, R. Goddard, M. Alcarazo  
*N*-Arylpyridiniophosphines: Synthesis, Structure, and Applications in Au(I) Catalysis.  
*ACS Catal.* **2018**, *8*, 10457-10463.
70. M.J. Böhm, C. Golz, I. Rüter, M. Alcarazo  
Two-Step Synthesis of Unsymmetrical Diaryl Sulfides by Electrophilic Thiolation of Non-functionalized (Hetero)arenes.  
*Chem. Eur. J.* **2018**, *24*, 15026-15035.
69. B. Waldecker, F. Kraft, C. Golz, M. Alcarazo. "5-(Alkynyl)dibenzothiophenium Triflates: Sulfur-Based Reagents for Electrophilic Alkynylation". *Angew. Chem. Int. Ed.* **2018**, *57*, 12538-12542.
68. M. Alcarazo  
Synthesis, Structure, and Reactivity of Carbodiphosporanes, Carbodicarbenes, and Related Species.  
In: Gessner V. (Eds.) *Modern Ylide Chemistry. Structure and Bonding* **2018**, vol 177, pp 25-50. Springer, Cham.
67. L.D.M. Nicholls, M. Marx, T. Hartung, E. González-Fernández, C. Golz, M. Alcarazo  
TADDOL-Derived Cationic Phosphonites: Toward an Effective Enantioselective Synthesis of [6]Helicenes via Au-Catalyzed Alkyne Hydroarylation.  
*ACS Catal.* **2018**, *8*, 6079-6085.
66. L. Gu, L.M. Wolf, W. Thiel, C.W. Lehmann, M. Alcarazo  
Reductive Elimination of C<sub>6</sub>F<sub>5</sub>-C<sub>6</sub>F<sub>5</sub> from Pd(II) Complexes: Influence of  $\alpha$ -Dicationic Chelating Phosphines.  
*Organometallics* **2018**, *37*, 665-672.

## 2017

65. A.G. Barrado, J.M. Bayne, T.C. Johnstone, C.W. Lehmann, D.W. Stephan, M. Alcarazo  
Dicationic phosphonium salts: Lewis acid initiators for the Mukaiyama-aldol reaction.  
*Dalton Trans.* **2017**, *46*, 16216-16227.
64. A.G. Barrado, A. Zieliński, R. Goddard, M. Alcarazo  
Regio- and Stereoselective Chlorocyanation of Alkynes.  
*Angew. Chem. Int. Ed.* **2017**, *56*, 13401-13405.
63. L. Gu, Y. Zheng, E. Haldón, R. Goddard, E. Bill, W. Thiel, M. Alcarazo  
 $\alpha$ -Radical Phosphines: Synthesis, Structure, and Reactivity.  
*Angew. Chem. Int. Ed.* **2017**, *56*, 8790-8794.
62. L. Gu, L.M. Wolf, A. Zieliński, W. Thiel, M. Alcarazo  
 $\alpha$ -Dicationic Chelating Phosphines: Synthesis and Application to the Hydroarylation of  
Dienes.  
*J. Am. Chem. Soc.* **2017**, *139*, 4948-4953.
61. E. González-Fernández, L.D.M. Nicholls, L.D. Schaaf, C. Farès, C.W. Lehmann,  
M. Alcarazo  
Enantioselective Synthesis of [6]Carbohelicenes.  
*J. Am. Chem. Soc.* **2017**, *139*, 1428-1431.
60. J. Peña, G. Talavera, B. Waldecker, M. Alcarazo  
Alkynylthioimidazolium Salts: Efficient Reagents for the Synthesis of Alkynyl Sulfides  
by Electrophilic Thioalkynylation.  
*Chem. Eur. J.* **2017**, *23*, 75-78.

## 2016

59. G. Mehler, P. Linowski, J. Carreras, A. Zanardi, J.W. Dube, M. Alcarazo  
Bis(cyclopropenium)phosphines: Synthesis, Reactivity, and Applications.  
*Chem. Eur. J.* **2016**, *22*, 15320-15327.
58. M. Alcarazo  
Synthesis, Structure, and Applications of  $\alpha$ -Cationic Phosphines.  
*Acc. Chem. Res.* **2016**, *49*, 1797-1805.
57. J. W. Dube, Y. Zheng, W. Thiel, M. Alcarazo  
 $\alpha$ -Cationic Arsines: Synthesis, Structure, Reactivity, and Applications  
*J. Am. Chem. Soc.* **2016**, *138*, 6869-6877.
56. E. Haldón, Á. Kozma, H. Tinnermann, L. Gu, R. Goddard, M. Alcarazo  
Synthesis and Reactivity of  $\alpha$ -Cationic Phosphines: The Effect of Imidazolium and  
Amidinium Substituents.  
*Dalton Trans.* **2016**, *45*, 1872-1876.

## 2015

55. Á. Kozma, J. Rust, M. Alcarazo  
Bis[(dialkylamino)cyclopropenimine]-Stabilized P<sup>III</sup>- and P<sup>V</sup>-Centered Dications.  
*Chem.–Eur. J.* **2015**, *21*, 10829-10834.
54. G. Talavera, J. Peña, M. Alcarazo  
Dihalo(imidazolium)sulfuranes: A Versatile Platform for the Synthesis of New  
Electrophilic Group-Transfer Reagents.  
*J. Am. Chem. Soc.* **2015**, *137*, 8704-8707.
53. S. Holle, D. Escudero, B. Inés, J. Rust, W. Thiel, M. Alcarazo  
On the Reactivity of Tetrakis(trifluoromethyl)cyclopentadieneone towards  
Carbon-Based Lewis Bases.  
*Chem.–Eur. J.* **2015**, *21*, 2744-2749.

## 2014

52. B. Inés, S. Holle, D. A. Bock, M. Alcarazo  
Polyfluorinated Cyclopentadienones as Lewis Acids.  
*Synlett* **2014**, *25*, 1539-1541.
51. L. Gu, G. Gopakumar, P. Gualco, W. Thiel, M. Alcarazo  
Bis- and Tris(pyrazolyl)borate/Methane-Stabilized P<sup>III</sup>-Centered Cations.  
*Chem.–Eur. J.* **2014**, *20*, 8575-8578.
50. H. Tinnermann, C. Wille, M. Alcarazo  
Synthesis, Structure, and Applications of Pyridiniophosphines.  
*Angew. Chem. Int. Ed.* **2014**, *53*, 8732-8736.
49. M. Alcarazo  
 $\alpha$ -Cationic Phosphines: Synthesis and Applications.  
*Chem.–Eur. J.* **2014**, *20*, 7868-7877.
48. Á. Kozma, T. Deden, J. Carreras, C. Wille, J. Petušková, J. Rust, M. Alcarazo  
Coordination Chemistry of Cyclopropenylidene-Stabilized Phosphenium Cations:  
Synthesis and Reactivity of Pd and Pt Complexes.  
*Chem.–Eur. J.* **2014**, *20*, 2208-2214.



## 2013

47. J. Carreras, G. Gopakumar, L. Gu, A. Gimeno, P. Linowski, J. Petušková, W. Thiel, M. Alcarazo  
Polycationic Ligands in Gold Catalysis: Synthesis and Applications of Extremely  $\pi$ -Acidic Catalysts.  
*J. Am. Chem. Soc.* **2013**, *135*, 18815-18823.
46. E. González-Fernández, J. Rust, M. Alcarazo  
Synthesis and reactivity of metal complexes with acyclic (amino)(ylide)carbene ligands.  
*Angew. Chem. Int. Ed.* **2013**, *52*, 11392-11395.
45. J. A. Nicasio, S. Steinberg, B. Inés, M. Alcarazo  
Tuning the Lewis acidity of boranes in frustrated Lewis pair chemistry: implications for the hydrogenation of electron-poor alkenes.  
*Chem.–Eur. J.* **2013**, *19*, 11016-11020.
44. S. Khan, M. Alcarazo  
Carbon-based frustrated Lewis pairs.  
*Top. Curr. Chem.* **2013**, *334*, 157-170.
43. Á. Kozma, J. Petušková, C. W. Lehmann, M. Alcarazo  
Synthesis, structure and reactivity of cyclopropenyl-1-ylidene stabilized S(II), Se(II) and Te(II) mono- and dications.  
*Chem. Commun. (Cambridge, U. K.)* **2013**, *49*, 4145-4147.
42. S. Khan, G. Gopakumar, W. Thiel, M. Alcarazo  
Stabilization of a two-coordinate  $[\text{GeCl}]^+$  cation by simultaneous  $\sigma$  and  $\pi$  donation from a monodentate carbodiphosphorane.  
*Angew. Chem. Int. Ed.* **2013**, *52*, 5644-5647.
41. M. Alcarazo, K. Radkowski, G. Mehler, R. Goddard, A. Fürstner  
Chiral heterobimetallic complexes of carbodiphosphoranes and phosphinidene–carbene adducts.  
*Chem. Commun. (Cambridge, U. K.)* **2013**, *49*, 3140-3142.
40. Á. Kozma, G. Gopakumar, C. Farès, W. Thiel, M. Alcarazo  
Synthesis and structure of carbene-stabilized N-centered cations  $[\text{L}_2\text{N}]^+$ ,  $[\text{L}_2\text{NR}]^{2+}$ ,  $[\text{LNR}_3]^{2+}$  and  $[\text{L}_3\text{N}]^{3+}$ .  
*Chem.–Eur. J.* **2013**, *19*, 3542-3546.

## 2012

39. B. Inés, D. Palomas, S. Holle, S. Steinberg, J. A. Nicasio, M. Alcarazo  
Metal-free hydrogenation of electron-poor allenes and alkenes.  
*Angew. Chem. Int. Ed.* **2012**, *51*, 12367-12369.
38. J. Carreras, M. Patil, W. Thiel, M. Alcarazo  
Exploiting the  $\pi$ -acceptor properties of carbene-stabilized phosphorus centered  
trications  $[L_3P]^{3+}$ : applications in Pt(II) catalysis.  
*J. Am. Chem. Soc.* **2012**, *134*, 16753-16758.
37. O. García-Mancheño, M. Alcarazo  
At the frontiers of knowledge in chemistry: the 47th Bürgenstock conference.  
*Angew. Chem. Int. Ed.* **2012**, *51*, 8151-8154.
36. D. Palomas, S. Holle, B. Inés, H. Bruns, R. Goddard, M. Alcarazo  
Synthesis and reactivity of electron poor allenes: formation of completely organic  
frustrated Lewis pairs.  
*Dalton Trans.* **2012**, *41*, 9073-9082.
35. A. Prades, E. Peris, M. Alcarazo  
Pyracenebis(imidazolylidene): a new Janus-type biscarbene and its coordination to  
rhodium and iridium.  
*Organometallics* **2012**, *31*, 4623-4626.
34. J. Iglesias-Sigüenza, M. Alcarazo  
Fullerenes as neutral carbon-based Lewis acids.  
*Angew. Chem. Int. Ed.* **2012**, *51*, 1523-1524.

## 2011

33. J. Petušková, M. Patil, S. Holle, C. W. Lehmann, W. Thiel, M. Alcarazo  
Synthesis, structure, and reactivity of carbene-stabilized phosphorus(III)-centered  
trications  $[L_3P]^{3+}$ .  
*J. Am. Chem. Soc.* **2011**, *133*, 20758-20760.
32. V. Hickmann, A. Kondoh, B. Gabor, M. Alcarazo, A. Fürstner  
Catalysis-based and protecting-group-free total syntheses of the marine oxylipins  
hybridalactone and the ecklonialactones A, B, and C.  
*J. Am. Chem. Soc.* **2011**, *133*, 13471-13480.
31. B. Inés, M. Patil, J. Carreras, R. Goddard, W. Thiel, M. Alcarazo  
Synthesis, structure, and reactivity of a dihydrido borenium cation.  
*Angew. Chem. Int. Ed.* **2011**, *50*, 8400-8403.

30. J. Petušková, H. Bruns, M. Alcarazo  
Cyclopropenylylidene-stabilized diaryl and dialkyl phosphonium cations: applications in homogeneous gold catalysis.  
*Angew. Chem. Int. Ed.* **2011**, *50*, 3799-3802.
29. M. Alcarazo  
On the metallic nature of carbon in allenes and heterocumulenes.  
*Dalton Trans.* **2011**, *40*, 1839-1845.
28. M. Alcarazo, K. Radkowski, R. Goddard, A. Fürstner  
Metal complexes with carbene ligands stabilized by lateral enamines.  
*Chem. Commun. (Cambridge, U. K.)* **2011**, *47*, 776-778.

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27. B. Inés, S. Holle, R. Goddard, M. Alcarazo  
Heterocyclic S–S bond cleavage by a purely carbogenic frustrated Lewis pair.  
*Angew. Chem. Int. Ed.* **2010**, *49*, 8389-8391.
26. M. Alcarazo, R. M. Suárez, R. Goddard, A. Fürstner  
A new class of singlet carbene ligands.  
*Chem.–Eur. J.* **2010**, *16*, 9746-9749.
25. V. Hickmann, M. Alcarazo, A. Fürstner  
Protecting-group-free and catalysis-based total synthesis of the ecklonialactones.  
*J. Am. Chem. Soc.* **2010**, *132*, 11042-11044.
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