

List of Publications

2025

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 α -diazo sulfonium salts: rhodium-catalysed ring expansion of indenes 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 (\pm)-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
 α -Diazo- λ^3 -iodanes and α -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. Caeteruccio, 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
 α -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 Dienes, Vinyl
Sulfones, and Phenanthrenes.
Eur. J. Org. Chem. **2021**, 4038-4048.
89. X. Marset, 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^{2,6}.0^{3,13}.0^{4,11}.0^{5,9}.0^{10,14}]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
 α -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^{2,6}.0^{3,13}.0^{4,11}.0^{5,9}.0^{10,14}] 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
 α -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. Aversch, 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 α -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 Carbodiphosphanes, 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 C₆F₅-C₆F₅ from Pd(II) Complexes: Influence of α -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
 α -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
 α -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 α -Cationic Phosphines.
Acc. Chem. Res. **2016**, *49*, 1797-1805.
57. J. W. Dube, Y. Zheng, W. Thiel, M. Alcarazo
 α -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 α -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^{III}- and P^V-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^{III}-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
 α -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 π -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 σ and π 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 π -acceptor properties of carbene-stabilized phosphorus centered trications $[\text{L}_3\text{P}]^{3+}$: 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.

2010

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.

24. M. Alcarazo, C. Gomez, S. Holle, R. Goddard
Exploring the reactivity of carbon (0)/borane-based frustrated Lewis pairs.
Angew. Chem. Int. Ed. **2010**, *49*, 5788-5791 [Erratum: *Angew. Chem. Int. Ed.* **2010**, *49*, 5597].
23. A. Ros, M. Alcarazo, D. Monge, E. Álvarez, R. Fernández, J. M. Lassaletta
Stereoselective synthesis of cationic heterobidentate C(NHC)/SR rhodium(I) complexes using stereodirecting *N,N*-dialkylmaino groups.
Tetrahedron: Asymmetry **2010**, *21*, 1557-1562.
22. H. Bruns, M. Patil, J. Carreras, A. Vázquez, W. Thiel, R. Goddard, M. Alcarazo
Synthesis and coordination properties of nitrogen(I)-based ligands.
Angew. Chem. Int. Ed. **2010**, *49*, 3680-3683.
21. M. Alcarazo, T. Stork, A. Anoop, W. Thiel, A. Fürstner
Steering the surprisingly modular π -acceptor properties of N-heterocyclic carbenes: implications for gold catalysis.
Angew. Chem. Int. Ed. **2010**, *49*, 2542-2546.

2009

20. J. Iglesias-Sigüenza, A. Ros, E. Díez, M. Alcarazo, E. Álvarez, R. Fernández, J. M. Lassaletta
Synthesis, structure and properties of [1,2,4]triazolo[4,3-*a*]pyridin-3-ylidene rhodium and palladium complexes.
Dalton Trans. **2009**, 7113-7120.
19. A. Fürstner, M. Alcarazo, H. Krause
Tetrakis(dimethylamino)allene.
Org. Synth. **2009**, *86*, 298-307.
18. M. Alcarazo, C. W. Lehmann, A. Anoop, W. Thiel, A. Fürstner
Coordination Chemistry at Carbon.
Nat. Chem. **2009**, *1*, 295-301.

2008

17. A. Ros, M. Alcarazo, J. Iglesias-Sigüenza, E. Díez, E. Álvarez, R. Fernández, J. M. Lassaletta
Stereoselective synthesis of Rh(I) 4-(dialkylamino)triazol-5-ylidene complexes.
Organometallics **2008**, 27, 4555-4564.
16. A. Fürstner, M. Alcarazo, K. Radkowski, W. Lehmann
Carbenes stabilized by ylides: pushing the limits.
Angew. Chem. Int. Ed. **2008**, 47, 8302-8306.
15. A. Fürstner, M. Alcarazo, R. Goddard, C. W. Lehmann
Coordination chemistry of ene-1,1-diamines and a prototype "carbodicarbene".
Angew. Chem. Int. Ed. **2008**, 47, 3210-3214.
14. A. Fürstner, M. Alcarazo, V. César, H. Krause
Preparation of non-symmetrical imidazolium salts: 1-adamantyl-3-mesityl-4,5-dimethylimidazolium tetrafluoroborate.
Org. Synth. **2008**, 85, 34-44.

2007

13. A. Fürstner, M. Alcarazo, H. Krause, C. W. Lehmann
Effective modulation of the donor properties of N-heterocyclic carbene ligands by "through-space" communication within a planar chiral scaffold.
J. Am. Chem. Soc. **2007**, 129, 12676-12677.
12. D. Monge, E. Martín-Zamora, J. Vázquez, M. Alcarazo, E. Álvarez, R. Fernández, J. M. Lassaletta
Enantioselective conjugate addition of *N,N*-dialkylhydrazones to α -hydroxy enones.
Org. Lett. **2007**, 9, 2867-2870.
11. S. J. Roseblade, A. Ros, D. Monge, M. Alcarazo, E. Álvarez, J. M. Lassaletta, R. Fernández
Imidazo[1,5-*a*]pyridin-3-ylidene/thioether mixed C/S ligands and complexes thereof.
Organometallics **2007**, 26, 2570-2578.
10. S. Gómez-Bujedo, M. Alcarazo, C. Pichon, E. Álvarez, R. Fernández, J. M. Lassaletta
Isoquinolin-1-ylidenes as electronically tuneable ligands.
Chem. Commun. (Cambridge, U. K.) **2007**, 1180-1182.

2006

9. A. Ros, D. Monge, M. Alcarazo, E. Álvarez, J. M. Lassaletta, R. Fernández
Synthesis, structure and applications of *N*-dialkylamino-*N'*-alkylimidazol-2-ylidenes as a new type of NHC ligands.
Organometallics **2006**, *25*, 6039-6046.
8. A. Fürstner, M. Alcarazo, V. César, C. W. Lehmann
Convenient, scalable and flexible method for the preparation of imidazolium salts with previously inaccessible substitution patterns.
Chem. Commun. (Cambridge, U. K.) **2006**, 2176-2178.

2005

7. M. Alcarazo, R. Fernández, E. Álvarez, J. M. Lassaletta
Synthesis, structure and electronic properties of *N*-dialkylamino and *N*-alkoxy-1,2,4-triazol-3-ylidene ligands.
J. Organomet. Chem. **2005**, *690*, 5979-5988.
6. M. Alcarazo Velasco
Magnesium bis(monoperoxyphthalate) hexahydrate (MMPP).
Synlett **2005**, 1807-1808.
5. M. Alcarazo, S. J. Roseblade, A. R. Cowley, R. Fernández, J. M. Brown, J. M. Lassaletta
Imidazo[1,5-*a*]pyridine: A versatile architecture for N-Heterocyclic carbenes.
J. Am. Chem. Soc. **2005**, *127*, 3290-3291.

2004

4. M. Alcarazo, S. J. Roseblade, E. Alonso, R. Fernández, E. Alvarez, F. J. Lahoz, J. M. Lassaletta
1,3-Bis(*N,N*-dialkylamino)imidazolin-2-ylidenes: synthesis and reactivity of a new family of stable N-heterocyclic carbenes.
J. Am. Chem. Soc. **2004**, *126*, 13242-13243.
3. J. M. Lassaletta, M. Alcarazo, R. Fernández
Glyoxal bis-hydrazones: a new family of nitrogen ligands for asymmetric catalysis.
Chem. Commun. (Cambridge, U. K.) **2004**, 298-299.

2003

2. L. A. Ortiz-Frade, L. Ruiz-Ramírez, I. González, A. Marín-Becerra, M. Alcarazo, J. G. Alvarado-Rodríguez, R. Moreno-Esparza
Synthesis and spectroelectrochemical studies of mixed heteroleptic chelate complexes of ruthenium (II) with 1,8-bis(2-pyridyl)-3,6-dithiaoctane (pdto) and substituted 1,10-phenanthrolines.
Inorg. Chem. **2003**, 42, 1825-1834.

2001

1. R. Fernández, E. Martín-Zamora, C. Pareja, M. Alcarazo, J. Martín, J. M. Lassaletta
Synthesis of α -hydroxyhydrazones from aldehydes.
Synlett **2001**, 1158-1160.