

2016

- [419] M. Arrowsmith, J. Böhnke, H. Braunschweig,* M. A. Celik, C. Claes, W. C. Ewing, Ivo Krummenacher, K. Lubitz, C. Schneider
Neutral Diboron Analogues of Archetypal Aromatic Species by Spontaneous Cycloaddition submitted.
- [418] M. Schäfer, J. Schäfer, W. C. Ewing, M. Krahfuß, M. W. Kuntze-Fechner, M. Wehner, R. D. Dewhurst, C. Lambert,* H. Braunschweig*
Regioselective Catalytic and Stepwise Routes to Bulky, Functional-group-Appended and Luminescent 1,2-Azaborinines submitted.
- [417] H. Braunschweig, R. D. Dewhurst, C. Schneider
Steric control between neutral metal-only Lewis pairs and metal-stabilized gallenium and gallinium cations submitted.
- [416] M. Arrowsmith, H. Braunschweig, M. A. Celik, T. Dellermann, R. D. Dewhurst, W. C. Ewing, K. Hammond, T. Kramer, I. Krummenacher, J. Mies, K. Radacki, J. K. Schuster
Neutral Low-Valent s-Block Complexes with Strong Multiple Bonding submitted.
- [415] R. Bertermann, H. Braunschweig, M. Finze, F. Hupp, J. A. P. Sprenger
Formation of a Trifluorophosphane Platinum(II) Complex via P–F Bond Activation of Phosphorus Pentafluoride with a Pt(0) Complex submitted.
- [414] N. Arnold, H. Braunschweig, R. D. Dewhurst, W. C. Ewing
Unprecedented Borane, Diborane(3), Diborene, and Borylene Ligands via Pt-Mediated Borane Dehydrogenation
J. Am. Chem. Soc. **2016**, *138*, 76–79.
- [413] H. Braunschweig, R. D. Dewhurst, L. Pentecost, K. Radacki, A. Vargas, Q. Ye
Dative Bonding between Group 13 Elements Using a Boron-Centered Lewis Base
Angew. Chem. **2016**, *128*, 447–451; *Angew. Chem. Int. Ed.* **2016**, *55*, 436–440.
- [412] H. Braunschweig, M. A. Celik, R. D. Dewhurst, S. Kachel, B. Wennemann,
Mild and complete carbonyl ligand scission on a mononuclear transition metal complex submitted.
- [411] H. Braunschweig, R. D. Dewhurst, K. Ferkinghoff
Carbene-induced synthesis of the first borironium cations using the $[(\eta^5\text{-C}_5\text{Me}_5)\text{Fe}(\text{CO})_2]^-$ anion as unlikely leaving group
Chem. Commun. **2016**, *52*, 183–185.
- [410] H. Braunschweig, W.C. Ewing, S. Ghosh, T. Kramer, J.D. Mattock, S. Östreicher, A. Vargas, C. Werner
Trimetallaborides as starting points for the syntheses of large metal-rich molecular borides and clusters
Chem. Sci. **2016**, *7*, 109–116.
- [409] H. Braunschweig, I. Krummenacher
Electrochemical Behavior and Redox Chemistry of Boroles in *Organic Redox Systems: Synthesis, Properties and Applications* (Hrsg.: T. Nishinaga), Wiley, **2016**, in press.

2015

- [408] N. Arnold, S. Mozo, U. Paul, U. Radius, H. Braunschweig
Aryldihydroborane Coordination to Iridium and Osmium Hydrido Complexes
Organometallics **2015**, *34*, 5709–5715.
- [407] H. Braunschweig, J. O. C. Jimenez-Halla, K. Radacki, R. Shang
A metal-mediated boron-centred isomerization reaction via C–H activation
Chem. Commun. **2015**, *51*, 16569–16572.
- [406] H. Braunschweig, C. Brunecker, R. D. Dewhurst, C. Schneider, B. Wennemann
Lewis Acid Binding and Transfer as a Versatile Experimental Gauge of the Lewis Basicity of Fe⁰, Ru⁰ and Pt⁰ Complexes.
Chem. Eur. J. **2015**, *21*, 19195–19201.
- [405] P. Bissinger, H. Braunschweig, M. A. Celik, C. Claes, R. D. Dewhurst, S. Endres, H. Kelch, T. Kramer, I. Krummenacher, C. Schneider
Synthesis of cyclic diborenes with unprecedented *cis*-configuration
Chem. Commun. **2015**, *51*, 15917–15920.
- [404] T. Kupfer, H. Braunschweig, K. Radacki
The Tribora-Cyclopropenyl Dianion: A classical Hückel π Aromat based on Boron
Angew. Chem. **2015**, *127*, 15299–15303; *Angew. Chem. Int. Ed.* **2015**, *54*, 15084–15088.
- [403] H. Braunschweig, F. Hupp, I. Krummenacher, L. Mailänder, F. Rauch
Ring Expansions of Boroles with Diazo Compounds: Steric Control of C or N Insertion and Aromatic / Nonaromatic Products
Chem. Eur. J. **2015**, *21*, 17844–17849.
- [402] D. Schmidt, M. Son, J. Lim, M.-J. Lin, I. Krummenacher, H. Braunschweig, D. Kim, F. Würthner
Perylene Bisimide Radicals and Biradicals: Synthesis and Molecular Properties
Angew. Chem. **2015**, *127*, 14186–14190; *Angew. Chem. Int. Ed.* **2015**, *54*, 13980–13984.
- [401] J. Böhnke, H. Braunschweig, T. Dellermann, W. C. Ewing, K. Hammond, T. Kramer, J. O. C. Jimenez-Halla, J. Mies,
The Synthesis of B₂(SIDip)₂ and its Reactivity Between the Diboracumulenic and Diborynic Extremes
Angew. Chem. **2015**, *127*, 14006–14010, *Chem. Int. Ed.* **2015**, *54*, 13801–13805:
- [400] H. Braunschweig, I. Krummenacher, L. Mailänder, F. Rauch
O,N,B-Containing eight-membered heterocycles by ring expansion of boroles with nitrones
Chem. Commun. **2015**, *51*, 14513–14515.
- [399] H. Braunschweig, A. Damme, K. Dück, M. Fuß, C. Hörl, T. Kramer, I. Krummenacher, T. Kupfer, C. Schneider
Ansa Complexes of [Mn(η^5 -C₅H₅) $(\eta^6$ -C₆H₆)]: Preparation, Characterization, and Reactivity of [n]Manganoarenophanes ($n = 1, 2, 3$)
Chem. Eur. J. **2015**, *21*, 14797–14803.
- [398] N. Arnold, H. Braunschweig, P. B. Brenner, M. A. Celik, R. D. Dewhurst, M. Hähnel, T. Kramer, I. Krummenacher, T. B. Marder
Correlations and Contrasts in Homo- and Heteroleptic Cyclic (Alkyl)(amino)carbene-Containing Pt⁰ Complexes
Chem. Eur. J. **2015**, *21*, 12357–12362.
- [397] H. Braunschweig, W. C. Ewing, K. Ferkinghoff, A. Hermann, T. Kramer, R. Shang, E. Siedler, C. Werner
Activation of boryl-, borylene and metalloborylene complexes by isonitriles
Chem. Commun. **2015**, *51*, 13032–13035.
- [396] H. Braunschweig, R. D. Dewhurst, K. Radacki, B. Wennemann, Q. Ye
1,2-Halosilane vs. 1,2-alkylborane elimination from (boryl)(silyl) complexes of iron: switching between borylenes and silylenes just by changing the alkyl group
Chem. Commun. **2015**, *51*, 15465–15468.
- [395] H. Braunschweig, T. Dellermann, W. C. Ewing, T. Kramer, C. Schneider, S. Ullrich, Reductive Insertion of Elemental Chalcogens into Boron–Boron Multiple Bonds
Angew. Chem. **2015**, *127*, 10409–10413; *Angew. Chem. Int. Ed.* **2015**, *54*, 10271–10275 (VIP).

- [394] R. Bertermann, H. Braunschweig, T. Dellermann, R. D. Dewhurst, W. C. Ewing, T. Kramer, J. Mies, A. K. Phukan, A. Vargas
Exclusive π Encapsulation of Light Alkali Metal Cations by a Neutral Molecule
Angew. Chem. **2015**, *127*, 13282–13286; *Angew. Chem. Int. Ed.* **2015**, *54*, 13090–13094.
- [393] L. Ji, R. Edkins, A. Lorbach, I. Krummenacher, C. Brückner, A. Eichhorn, H. Braunschweig, B. Engels, P. Low, T. B. Marder
Electron Delocalization in Reduced Forms of 2-(BMes₂)pyrene and 2,7-Bis(BMes₂)pyrene
J. Am. Chem. Soc. **2015**, *137*, 6750–6753.
- [392] H. Braunschweig, A. Gackstatter, T. Kupfer, T. Scheller, F. Hupp, A. Damme, N. Arnold and W. C. Ewing
Generation of 1,2-azaboretidines via reduction of ADC borane adducts
Chem. Sci. **2015**, *6*, 3461–3465.
- [391] R. D. Dewhurst, E. C. Neeve, H. Braunschweig, T. B. Marder
sp²-sp³ diboranes: astounding structural variability and mild sources of nucleophilic boron for organic synthesis
Chem. Commun. **2015**, *51*, 9594–9607.
- [390] H. Braunschweig, A. Gackstatter, T. Kupfer, K. Radacki, S. Franke, K. Meyer, K. Fucke, M.-H. Lemée-Cailleau
UraniumHydridoborates: Synthesis, Magnetism and X-ray/Neutron Diffraction Structures
Inorg. Chem. **2015**, *54*, 8022–8028.
- [389] Z. Zhang, R. M. Edkins, M. Haehnel, M. Wehner, A. Eichhorn, L. Mailänder, M. Meier, J. Brand, F. Brede, H. Braunschweig, and T. B. Marder
Taming the beast: fluoromesityl groups induce a dramatic stability enhancement in boroles
Chem. Sci. **2015**, *6*, 5922–5927.
- [388] H. Braunschweig, M. A. Celik, K. Dück, F. Hupp, I. Krummenacher,
f-Block Ansa Complexes in the Solid State: [3]Thoro- and [3]Uranocenophanes
Chem. Eur. J. **2015**, *21*, 9339–9342.
- [387] H. Braunschweig, R. D. Dewhurst, S. Mozo
Building Electron-Precise Boron-Boron Single Bonds: Imposing Monogamy on a Promiscuous Element
Chem. Cat. Chem. **2015**, *7*, 1630–1638.
- [386] J. Brand, H. Braunschweig, R. D. Dewhurst, F. Hupp, K. Lang
Synthesis and Hydroboration of a Mixed-Donor Iminoboryl Complex of Platinum
Eur. J. Inorg. Chem. **2015**, *17*, 2592–2595.
- [385] H. Braunschweig, W. C. Ewing, T. Kramer, J. D. Mattock, A. Vargas, C. Werner
Organometallic Probe for the Electronics of Base-Stabilized Group 11 Metal Cations
Chem. Eur. J. **2015**, *21*, 12347–12356.
- [384] F. A. Perras, W. C. Ewing, T. Dellermann, J. Böhnke, S. Ulrich, T. Schäfer, H. Braunschweig, D. L. Bryce
Spying on the boron-boron triple bond using spin-spin coupling measured from ¹¹B solid-state NMR spectroscopy
Chem. Sci. **2015**, *6*, 3378–3382.
- [383] H. Braunschweig, R. D. Dewhurst, F. Hupp, M. Nutz, K. Radacki, C. Tate, A. Vargas, Q. Ye
Multiple complexation of CO and related ligands to a main-group element
Nature, **2015**, 327–330.
- [382] H. Braunschweig, M. A. Celik, F. Hupp, I. Krummenacher, L. Mailänder
Formation of BN Isosteres of Azo Dyes by Ring Expansion of Boroles with Azides
Angew. Chem. **2015**, *127*, 6445–6449; *Angew. Chem. Int. Ed.* **2015**, *54*, 6347–6351.
- [381] H. Braunschweig, R. Shang
Reactivity of Transition Metal Borylene Complexes: Recent Advances in B–C and B–B Bond Formation via Borylene Ligand Coupling
Inorg. Chem. **2015**, *54*, 3099–3106.
- [380] M. Steeger, S. Griesbeck, A. Schmiedel, M. Holzapfel, I. Krummenacher, H. Braunschweig, C. Lambert
On the Relation of Energy Transfer Between IV-CT States and Electron Transfer Between Redox Centres in Multidimensional Chromophores Based on Polychlorinated Triphenylmethyl Radicals and Triarylamines
Phys. Chem. Chem. Phys., **2015**, *17*, 11848–11867.

- [379] J. Böhnke, H. Braunschweig, T. Dellermann, W. C. Ewing, T. Kramer, I. Krummenacher, A. Vargas
From an Electron-Rich Bis(boraketenimine) to an Electron-Poor Diborene
Angew. Chem. **2015**, *127*, 4551–4555; *Angew. Chem. Int. Ed.* **2015**, *54*, 4469–4473.
- [378] H. Braunschweig, Q. Ye, M. A. Celik, K. Radacki, R. D. Dewhurst
Cyclization of a 1,4-Diborabutadiene Ligand with Both Atoms of CO
Angew. Chem. **2015**, *127*, 5154–5157; *Angew. Chem. Int. Ed.* **2015**, *54*, 5065–5068.
- [377] H. Braunschweig, R. D. Dewhurst, T. Kramer
Synthesis of the First Heteroaryl-Substituted Boryl Complexes: Strong Stabilizing Effects of Boron-Aryl π -Conjugation
Inorg. Chem. **2015**, *54*, 3619–3621.
- [376] S. Bertsch, J. Brand, H. Braunschweig, F. Hupp, K. Radacki
Platinum Oxboryl Complexes as Substrates for the Formation of 1:1, 1:2 and 2:1 Lewis Acid-Base Adducts and 1,2-Dipolar Additions
Chem. Eur. J. **2015**, *21*, 6278–6285.
- [375] J. O. C. Jimenez-Halla, E. Matito, M. Solà, H. Braunschweig, C. Hörl, I. Krummenacher, J. Wahler
A theoretical study of the aromaticity in neutral and anionic borole compounds
Dalton **2015**, *44*, 6740–6747.
- [374] P. V. Simpson, K. Radacki, H. Braunschweig, U. Schatzschneider
An iridium N-heterocyclic carbene complex $[\text{IrCl}(\text{CO})_2(\text{NHC})]$ as a carbon monoxide-releasing molecule (CORM)
J. Organomet. Chem. **2015**, *782*, 116–123.
- [373] N. Arnold, H. Braunschweig, P. B. Brenner, R. Dewhurst, T. Kramer, K. Radacki
Investigation of Steric Factors Involved in the Formation of Terminal Cationic Platinum Arylborylene Complexes
Organometallics **2015**, *34*, 2343–2347.
- [372] H. Braunschweig, K. Radacki, R. Shang
Side-on coordination of boryl and borylene complexes to cationic coinage metal fragments
Chem. Sci. **2015**, *6*, 2015, 6, 2989–2996.
- [371] H. Braunschweig, R. D. Dewhurst, F. Hupp, J. Wolf
Unprecedented Oxidative Addition and Metal-Only Lewis Pair Chemistry of Antimony Trihalides
Chem. Eur. J. **2015**, *21*, 1860–1862
- [370] H. Braunschweig, C. Brückner, M. A. Celik, K. Dück, F. Hupp, T. Kramer, J. Krebs, I. Krummenacher
Ansa-Bridged Bis(benzene)Titanium Complexes
Chem. Eur. J. **2015**, *21*, 11056–11064.
- [369] H. Braunschweig, A. Damme, S. Demeshko, K. Dück, T. Kramer, I. Krummenacher, F. Meyer, K. Radacki, S. Stellwag-Konertz, G. R. Whittell
A Paramagnetic Heterobimetallic Polymer: Synthesis, Reactivity, and Ring-Opening Polymerization of Tin-Bridged Homo- and Heteroleptic Vanadoarenophanes
J. Am. Chem. Soc. **2015**, *137*, 1492–1500.
- [368] H. Braunschweig, C. Claes, A. Damme, A. Deissenberger, R. D. Dewhurst, C. Hörl, T. Kramer
A facile and selective route to remarkably inert monocyclic NHC-stabilized boriranes
Chem. Commun. **2015**, *51*, 1627–1630.
- [367] H. Braunschweig, W. C. Ewing, K. Geetharani, M. Schäfer
The Reactivities of Iminoboranes with Carbenes: BN Isosteres of Carbene-Alkyne Adducts
Angew. Chem. **2015**, *127*, 1682–1685; *Angew. Chem. Int. Ed.* **2015**, *54*, 1662–1665.
- [366] M. Schäfer, I. Krummenacher, H. Braunschweig, M. Finze
Boron Clusters with a Ferrocenylalkynyl Group Bonded to Boron: Synthesis, Characterization, and Electrochemical Trends
Z. anorg. allg. Chem. **2015**, *641*, 660–668.
- [365] P. Bissinger, H. Braunschweig, A. Damme, C. Hörl, I. Krummenacher, T. Kupfer
Boron as a Powerful Reductant: Synthesis of a Stable Boron-Centered Radical-Anion Radical-Cation Pair
Angew. Chem. **2015**, *127*, 366–369; *Angew. Chem. Int. Ed.* **2015**, *54*, 359–362.

- [364] H. Braunschweig, A. Damme, R. D. Dewhurst, H. Kelch, B. B. Macha, K. Radacki, A. Vargas, Q. Ye
Platinum *trans*-Bis(borirene) Complexes Displaying Coplanarity and Communication Across a Platinum Metal Center
Chem. Eur. J. **2015**, *21*, 2377–2386.
- [363] H. Braunschweig, S. Ghosh, J. O. C. Jimenez-Halla, J. H. Klein, C. Lambert, K. Radacki, A. Steffen, A. Vargas, J. Wahler
A Combined Experimental and Theoretical Study on the Isomers of 2,3,4,5-Tetracarba-*nido*-Hexaborane(6) Derivatives and Their Photophysical Properties
Chem. Eur. J. **2015**, *21*, 210–218.
- [362] T. Arnold, H. Braunschweig, W. C. Ewing, T. Kramer, J. Mies, J. K. Schuster
Beryllium bis(diazaborolyl): old neighbors finally shake hands
Chem. Commun. **2015**, *51*, 737–740.
- [361] P. Bissinger, A. Steffen, A. Vargas, R. D. D. Dewhurst, A. Damme, H. Braunschweig
Unexpected Luminescence Behavior of Coinage Metal π -Diborene Complexes
Angew. Chem. **2015**, *127*, 4436–4440; *Angew. Chem. Int. Ed.* **2015**, *54*, 4362–4366.
- [360] H. Braunschweig, M. A. Celik, R. D. Dewhurst, M. Heid, F. Hupp and S. S. Sen
Stepwise isolation of low-valent, low-coordinate Sn and Pb mono- and dications in the coordination sphere of platinum
Chem. Sci. **2015**, *6*, 425–435.
- [359] J. Böhnke, H. Braunschweig, P. Constantinidis, T. Dellermann, W. C. Ewing, I. Fischer, K. Hammond, F. Hupp, J. Mies, H.-C. Schmitt, A. Vargas
Experimental Assessment of the Strengths of B–B Triple Bonds
J. Am. Chem. Soc. **2015**, *137*, 1766–1769.

2014

- [358] H. Braunschweig, T. Kramer,
Crystal structure of μ -1 κ C:2(η^2)-carbonyl-carbonyl-1 κ C-chlorido-2 κ Cl- μ -chloridoborylene-1:2 κ^2 B:B-[1(η^5)-pentamethylcyclopentadienyl](tricyclohexylphosphane-2 κ P)iron(II)platinum(II) benzene monosolvate
Acta Cryst. **2014**, *E70*, 421–423.
- [357] H. Braunschweig, R. D. Dewhurst, F. Hupp, C. Schneider
Silver(I) and thallium(I) cations as unsupported bridges between two metal bases
Chem. Commun. **2014**, *50*, 15685–15688.
- [356] H. Braunschweig, R. D. Dewhurst
Boron-Boron Multiple Bonding: From Charged to Neutral and Back Again
Organometallics **2014**, *33*, 6271–6277.
- [355] F. Hupp, M. Ma, F. Kroll, J. O. C. Jimenez-Halla, R. D. Dewhurst, K. Radacki, A. Stasch, C. Jones·H. Braunschweig
Platinum Complexes Containing Pyramidalized Germanium and Tin Dihalide Ligands Bound through σ,σ M=E Multiple Bonds
Chem. Eur. J. **2014**, *20*, 16888–16898.
- [354] H. Braunschweig, C. Hörl
Unexpected cluster formation upon hydroboration of a neutral diborene with 9-BBN
Chem. Commun. **2014**, *50*, 10983–10985.
- [353] H. Braunschweig, R. D. Dewhurst, T. Kramer, E. Siedler
A Simple Decarbonylative Route to Heterodinuclear Alkylborylene Complexes
Organometallics **2014**, *33*, 3877–3881.
- [352] H. Braunschweig R. D. Dewhurst, F. Hupp, C. Kaufmann, A. K. Phukan, C. Schneider, Q. Ye
Gauging metal Lewis basicity of zerovalent iron complexes *via* metal-only Lewis pairs
Chem. Sci. **2014**, *5*, 4099–4104.
- [351] Y.-L. Rao, C. Hörl, H. Braunschweig, S. Wang
Reversible Photochemical and Thermal Isomerization of Azaboratabisnorcaradiene to Azaborabenzotropilidene
Angew. Chem. **2014**, *126*, 9232–9263; *Angew. Chem. Int. Ed.* **2014**, *53*, 9086–9089.

- [350] H. Braunschweig, Q. Ye, A. Vargas, R. D. Dewhurst, F. Hupp
Complete and Partial 1,2-Additions across Transition Metal-Boron Double Bonds
J. Am. Chem. Soc. **2014**, *136*, 9560–9563.
- [349] F. Holzmeier, M. Lang, P. Hemberger, A. Bodi, M. Schäfer, R. D. Dewhurst, H. Braunschweig, I. Fischer
Photoionization and Pyrolysis of a 1,4-Azaborinine: Retro-Hydroboration in the Cation and Identification of Novel Organoboron Ring Systems
Chem. Eur. J. **2014**, *20*, 9683–9692.
- [348] P. Bissinger, H. Braunschweig, A. Damme, I. Krummenacher, A. K. Phukan, K. Radacki, S. Sugawara
Isolation of a Neutral Boron-Containing Radical Stabilized by a Cyclic (Alkyl)(Amino)Carbene
Angew. Chem. **2014**, *126*, 7488–7491; *Angew. Chem. Int. Ed.* **2014**, *53*, 7360–7363.
- [347] J. Böhnke, H. Braunschweig, W. C. Ewing, C. Hörl, T. Kramer, I. Krummenacher, J. Mies, A. Vargas
Diborabutatriene: An Electron Deficient Cumulene
Angew. Chem. **2014**, *126*, 9228–9231; *Angew. Chem. Int. Ed.* **2014**, *53*, 9082–9085.
- [346] H. Braunschweig, C. Hörl, L. Mailänder, K. Radacki, J. Wahler
Antiaromaticity to Aromaticity: From Boroles to 1,2-Azaborinines by Ring Expansion with Azides
Chem. Eur. J. **2014**, *20*, 9858–9861.
- [345] S. Bertsch, H. Braunschweig, R. D. Dewhurst, K. Radacki, C. Saalfrank, B. Wennemann, Q. Ye
Partially and Fully Reversible Solvation-Controlled Borylene Swapping and Metal-Only Lewis Pair Formation
Organometallics **2014**, *33*, 3649–3651.
- [344] H. Braunschweig, R. D. Dewhurst, K. Radacki, C. W. Tate, A. Vargas
Trihapto Ligation of a Borirene to a Single Metal Atom: A Heterocyclic Analogue of the η^3 -Cyclopropenyl Ligand
Angew. Chem. **2014**, *126*, 6378–6381; *Angew. Chem. Int. Ed.* **2014**, *53*, 6265–6266.
- [343] R. Bertermann, H. Braunschweig, R. D. Dewhurst, C. Hörl, T. Kramer, I. Krummenacher
Evidence for Extensive Single-Electron-Transfer Chemistry in Boryl Anions: Isolation and Reactivity of a Neutral Borole Radical
Angew. Chem. **2014**, *126*, 5557–5561; *Angew. Chem. Int. Ed.* **2014**, *53*, 5453–5457.
- [342] H. Braunschweig, P. Bissinger, A. Damme, T. Kupfer, I. Krummenacher, A. Vargas
Boron Radical Cations from the Facile Oxidation of Electron-Rich Diborenes
Angew. Chem. **2014**, *126*, 5797–5801; *Angew. Chem. Int. Ed.* **2014**, *53*, 5689–5693.
- [341] H. Braunschweig, A. Damme, T. Kramer, I. Krummenacher, J. Mager
Tin-bridged *ansa* Metallocenes of the Late Transition Metals Cobalt and Nickel: Preparation, Molecular and Electronic Structures, and Redox Chemistry
Organometallics **2014**, *33*, 1659–1664.
- [340] R. Bertermann, H. Braunschweig, W. C. Ewing, T. Kramer, A. K. Phukan, A. Vargas, C. Werner
Synthesis and characterization of a mercury-containing trimetalloboride
Chem. Commun. **2014**, *50*, 5729–5732.
- [339] H. Braunschweig, T. Kramer, K. Radacki, R. Shang, E. Siedler, C. Werner
Isolation of the key intermediates of base-promoted borylene–carbonyl coupling reactions
Chem. Sci. **2014**, *5*, 2271–2276.
- [338] S. Bertsch, R. Bertermann, H. Braunschweig, A. Damme, R. D. Dewhurst, A. K. Phukan, C. Saalfrank, A. Vargas, B. Wennemann, Q. Ye
Metal-Only Lewis Pairs by Reversible Insertion of Ruthenium and Osmium Fragments into Metal-Boron Double Bonds
Angew. Chem. **2014**, *126*, 4326–4329; *Angew. Chem. Int. Ed.* **2014**, *53*, 4240–4243.
- [337] H. Braunschweig, A. Damme, R. D. Dewhurst, T. Kramer, I. Krummenacher, A. K. Phukan
Short Survey of the Chemical Reduction Behavior of the Base-Stabilized Iron Dichloroboryl Complexes $[(\eta^5\text{-C}_5\text{Me}_5)\text{Fe}(\text{CO})_2\text{BCl}_2(\text{LB})]$
Organometallics **2014**, *33*, 604–606.

- [336] H. Braunschweig, K. Geetharani, J. O. C. Jimenez-Halla, M. Schäfer
Direct Synthetic Route to Functionalized 1,2-Azaborinines
Angew. Chem. **2014**, *126*, 3568–3572; *Angew. Chem. Int. Ed.* **2014**, *53*, 3500–3504.
- [335] J. Brand, H. Braunschweig, F. Hupp, K. Radacki, S. S. Sen
A B–C Double Bond Unit Coordinated to Platinum: An Alkylideneboryl Ligand that Is Isoelectronic to Neutral Aminoborylene Ligands
Angew. Chem. **2014**, *126*, 2273–2277; *Angew. Chem. Int. Ed.* **2014**, *53*, 2240–2244.
- [334] H. Braunschweig, A. R. D. Dewhurst, C. Hörl, F. Pinzner, S. Ullrich
Direct Hydroboration of B=B Double Bonds: A Mild Strategy for the Proliferation of B–B Bonds.
Angew. Chem. **2014**, *126*, 3305–3308; *Angew. Chem. Int. Ed.* **2014**, *53*, 3241–3244.
- [333] H. Braunschweig, C. K. L. Brown, R. D. Dewhurst, J. O. C. Jimenez-Halla, T. Kramer, I. Krummenacher, B. Pfaffinger
Boryl-Functionalized σ -Alkynyl and Vinylidene Rhodium Complexes: Synthesis and Electronic Properties
Chem. Eur. J. **2014**, *20*, 1427–1433.
- [332] T. Arnold, H. Braunschweig, A. Damme, I. Krummenacher, K. Radacki
Synthesis and Structure of Group IV Distanna[2]metallocenophanes
Organometallics **2014**, *33*, 254–259.
- [331] H. Braunschweig, T. Dellermann, S. Stellwag-Konertz, J. Mies, K. Radacki, A. Vargas
Strained *ansa* Half Sandwich Complexes of Ruthenium and Osmium and a Non-Iron-Metallopolymer by Ring-Opening Polymerization
Organometallics **2014**, *33*, 1536–1539.
- [330] C. Nagel, S. McLean, R. K. Poole, H. Braunschweig, T. Kramer, U. Schatzschneider
Introducing $[\text{Mn}(\text{CO})_3(\text{tpa}-\kappa^3\text{N})]^+$ as a novel photoactivatable CO-releasing molecule with well-defined iCORM intermediates – synthesis, spectroscopy, and antibacterial activity
Dalton **2014**, *43*, 9986–9997.
- [329] J. Brand, H. Braunschweig, S. S. Sen
B=B and B \equiv E (E = N and O) Multiple Bonds in the Coordination Sphere of Late Transition Metals
Acc. Chem. Res. **2014**, *47*, 180–191.
- [328] H. Braunschweig, R. Bertermann, C. K. L. Brown, A. Damme, R. D. Dewhurst, C. Hoerl, T. Kramer, B. Pfaffinger, K. Radacki
Diverse reactions of N-heterocyclic carbenes with an alkynylborane and isolation of a reactive zwitterionic borataallene
Chem. Commun. **2014**, *50*, 97–99.

2013

- [327] H. Braunschweig, J. Bauer, S. Bertsch, R. D. Dewhurst, K. Ferkinghoff, C. Hörl, K. Kraft, K. Radacki
Hydridoborylene Complexes and Di-, Tri- and Tetranuclear Borido Complexes with Hydride Ligands
Chem. Eur. J. **2013**, *19*, 17608–17612.
- [326] H. Braunschweig, J. Maier, K. Radacki, J. Wahler
Ring-Expansion of 7-Boranorbornadienes by Coordination with a N-Heterocyclic Carbene
Organometallics **2013**, *32*, 6353–6359.
- [325] H. Braunschweig, F. Guethlein, L. Mailänder, T. B. Marder
Synthesis of Catechol-, Pinacol- and Neopentylglycolborane Through the Heterogeneous Catalytic B–B Hydrogenolysis of Diboranes(4)
Chem. Eur. J. **2013**, *19*, 14831–14835.
- [324] H. Braunschweig, K. Radacki, R. Shang
 σ -Coordination of metal-boryl bonds to gold(I)
Chem. Commun. **2013**, *49*, 9905–9907.
- [323] P. Bissinger, H. Braunschweig, A. Damme, R. D. Dewhurst, K. Kraft, T. Kramer, K. Radacki
Base-Stabilized Boryl and Cationic Haloborylene Complexes of Iron
Chem. Eur. J. **2013**, *19*, 13402–13407.

- [322] H. Braunschweig, Q. Ye, A. Vargas, K. Radacki, A. Damme
Phosphine-Triggered Co-catenation of :BR and CO on an Iron Atom
Angew. Chem. **2013**, *125*, 10851–10854; *Angew. Chem. Int. Ed.* **2013**, *52*, 10657–10660.
- [321] J. Bauer, H. Braunschweig, C. Hörl, K. Radacki, J. Wahler
Synthesis of Zwitterionic Cobaltocenium Borate and Borata-alkene Derivatives from a Borole Radical Anion
Chem. Eur. J. **2013**, *19*, 13396–13401.
- [320] H. Braunschweig, A. Damme, C. Hörl, T. Kupfer, J. Wahler
Si-H Bond Activation at the Boron Center of Pentaphenylborole
Organometallics **2013**, *32*, 6800–6803.
- [319] H. Braunschweig, Q. Ye, A. Damme, K. Radacki
Synthesis and structure of the first heterodinuclear bis(borylene) complexes
Chem. Commun. **2013**, *49*, 7593–7595.
- [318] A. Rammo, I. Bejan, A. Meltzer, K. Radacki, H. Braunschweig, D. Scheschkewitz
1,2-Disilabicyclo[1.1.1]pentan-4-ones from a Disilenide and Acryloyl Chlorides
Austr. J. Chem. **2013**, *66*, 1311–1314.
- [317] H. Braunschweig, V. Dyakonov, B. Engels, Z. Falk, C. Hörl, J. H. Klein, T. Kramer, H. Kraus, I. Krummenacher, C. Lambert, C. Walter
Multiple Reduction of 2,5-Bis(boroly)thiophene: Isolation of a Negative Bipolaron by Comproportionation
Angew. Chem. **2013**, *125*, 13088–13092; *Angew. Chem. Int. Ed.* **2013**, *52*, 12852–12855.
- [316] H. Braunschweig, R. D. Dewhurst, C. Hörl, K. Radacki, C. W. Tate, A. Vargas, Q. Ye
Reductive Borylene-CO Coupling with a Bulky Arylborylene Complex
Angew. Chem. **2013**, *125*, 10307–10310; *Angew. Chem. Int. Ed.* **2013**, *52*, 10120–10123.
- [315] P. Bissinger, H. Braunschweig, A. Damme, T. Kupfer, K. Radacki
An Electron Precise, Tetrahedral μ_3 Boride Complex
Angew. Chem. **2013**, *125*, 7176–7179; *Angew. Chem. Int. Ed.* **2013**, *52*, 7038–7041.
- [314] J. Bauer, H. Braunschweig, A. Damme, J. O. C. Jimenez-Halla, T. Kramer, K. Radacki, R. Shang, E. Siedler, Q. Ye
Metathesis Reactions of a Manganese Borylene Complex with Polar Heteroatom-Carbon Double Bonds: A Pathway to Previously Inaccessible Carbene Complexes
J. Am. Chem. Soc. **2013**, *135*, 8726–8734.
- [313] H. Braunschweig, A. Damme, R. D. Dewhurst, T. Kramer, T. Kupfer, K. Radacki, E. Siedler, A. Trumpp, K. Wagner, C. Werner
Quaternizing Diboranes(4): Highly Divergent Outcomes and an Inorganic Wagner-Meerwein Rearrangement
J. Am. Chem. Soc. **2013**, *135*, 8702–8707.
- [312] H. Braunschweig, F. Hupp, T. Kramer, J. Mager
Structure and Reactivity of Distanna[2]metallocenophanes of Ruthenium and Osmium
Inorg. Chem. **2013**, *52*, 9060–9065.
- [311] J. Bauer, H. Braunschweig, R. D. Dewhurst, K. Radacki
Reactivity of Lewis Basic Platinum Complexes Towards Fluoroboranes
Chem. Eur. J. **2013**, *19*, 8797–8805.
- [310] H. Braunschweig, A. Damme, T. Kupfer
Diboran(4)ylplatinum(II) Complexes
Inorg. Chem. **2013**, *52*, 7822–7824.
- [309] H. Braunschweig, P. Brenner, R. D. Dewhurst, K. Radacki
A Base-Stabilized Iodoborylene Complex of Platinum(II)
Z. Naturforsch. **2013**, *747*–749.
- [308] H. Braunschweig, K. Radacki, Q. Ye
Synthesis and Structure of a Carbene-stabilized Boraallene Coordinated to Rhodium
Inorg. Chem. **2013**, *52*, 5639–5641.
- [307] H. Braunschweig, A. Damme, T. Kupfer
Conversion of *trans*-Diboran(4)yl Platinum Complexes into Their *cis*-Bisboryl Analogues
Chem. Eur. J. **2013**, *19*, 14682–14686.

- [306] H. Braunschweig, F. GÜTHLEIN
Transition-metal catalyzed synthesis of diboranes(4)
Eur. Pat. Appl. **2013**, EP 2554547 A1 20130206.
- [305] T. Arnold, H. Braunschweig, J. O. C. Jimenez-Halla, K. Radacki, S. S. Sen
Simultaneous Fragmentation and Activation of White Phosphorus
Chem. Eur. J. **2013**, 19, 9114–9117.
- [304] H. Braunschweig, A. Damme
Thermodynamic control of oxidative addition and reductive elimination processes in *cis*-bis(dimethoxyboryl)-bis(tricyclohexylphosphine)platinum(II)
Chem. Commun. **2013**, 49, 5216–5218.
- [303] H. Braunschweig, I. Krummenacher, J. Wahler
Free Boroles: the Effect of Antiaromaticity on their Physical Properties and Chemical Reactivity
Adv. Organomet. Chem. **2013**, 61, 1–53.
- [302] H. Braunschweig, P. Brenner, K. Radacki
Wolfphos in Sheep's Clothing: The First Trinuclear Triboryl- And Other Boryl Platinum Complexes Featuring a Flexible Phosphine Ligand
Z. anorg. allg. Chem. **2013**, 639, 1129–1133.
- [301] G. Bringmann, G. Zhang, T. Büttner, G. Bauckmann, T. Kupfer, H. Braunschweig, R. Brun, V. Mudogo
Jozimine A2: The First Dimeric Dioncophyllaceae-Type Naphthylisoquinoline Alkaloid, with Three Chiral Axes and High Antiplasmoidal Activity
Chem. Eur. J. **2013**, 19, 916–923.
- [300] H. Braunschweig, R. D. Dewhurst, V. H. Gessner
Transition Metal Borylene Complexes
Chem. Soc. Rev., **2013**, 42, 3197–3208.
- [299] H. Braunschweig, A. Damme, T. Kupfer
Synthesis of a Bicyclic Diborane by Selective Boron Carbon Bond Formation
Chem. Commun. **2013**, 49, 2774–2776.
- [298] H. Braunschweig, P. Brenner, R. D. Dewhurst, J. O. C. Jimenez-Halla, T. Kupfer, D. Rais, K. Uttinger
Maximizing Coordinative and Electronic Unsaturation: Three-Coordinate Dicationic Platinum Complexes
Angew. Chem. **2013**, 125, 3055–3058; *Angew. Chem. Int. Ed.* **2013**, 52, 2981–2984.
- [297] H. Braunschweig, T. Dellermann, R. D. Dewhurst, W. C. Ewing, K. Hammond, J. O. C. Jimenez-Halla, T. Kramer, I. Krummenacher, J. Mies, A. K. Phukan, A. Vargas
Metal-Free binding and coupling of carbon monoxide at a boron-boron triple bond
Nature Chem. **2013**, 5, 1025–1028.
- [296] H. Braunschweig, C.-W. Chiu, D. Gamon, K. Gruß, C. Hörl, T. Kupfer, K. Radacki, J. Wahler
[Lewis Acid-Base Adducts of 1-Mesityl - and 1-Chloro -2,3,4,5-tetraphenylborole
Eur. J. Inorg. Chem. **2013**, 15, 1525–1530.
- [295] T. Arnold, H. Braunschweig, F. Hupp, K. Radacki, S. S. Sen
Reactions of a [1],[1]Disilamolybdenocenophane with Unsaturated Compounds
Eur. J. Inorg. Chem. **2013**, 15, 5027–5032.
- [294] H. Braunschweig, A. Damme, R. D. Dewhurst, S. Ghosh, T. Kramer, B. Pfaffinger, K. Radacki, A. Vargas
Electronic and Structural Effects of Stepwise Borylation and Quaternization on Borirene Aromaticity
J. Am. Chem. Soc. **2013**, 135, 1903–1911.
- [293] H. Braunschweig, A. Damme, R. D. Dewhurst, T. Kramer, S. Östreicher, K. Radacki, A. Vargas
Ditopic Ambiphilicity of an Anionic Dimetalloborylene Complex.
J. Am. Chem. Soc. **2013**, 135, 2313–2320.
- [292] H. Braunschweig, R. D. Dewhurst
Single, Double, Triple Bonds and Chains: The Formation of Electron-Precise B–B Bonds
Angew. Chem. **2013**, 125 3658–3667; *Angew. Chem. Int. Ed.* **2013**, 52, 3574–3583.
- [291] H. Braunschweig, R. Bertermann, A. Damme, T. Kupfer
A dinuclear platinum complex featuring the diboran(4)-1,2-diyl ligand in a μ^2 -bridging

coordination mode

Chem. Commun. **2013**, *49*, 2439–2441.

- [290] H. Braunschweig, T. Herbst, K. Radacki, C. W. Tate, A. Vargas
Cyclic (amino)(imino)carbene complexes by borylene transfer to isocyanides
Chem. Commun. **2013**, *49*, 1702–1704.
- [289] H. Braunschweig, K. Radacki, R. Shang, C. W. Tate
Reversible Intramolecular Coupling of the Terminal Borylene and a Carbonyl Ligand of
[Cp(CO)₂Mn=B-tBu]
Angew. Chem. **2013**, *125*, 757–761; *Angew. Chem. Int. Ed.* **2013**, *52*, 729–733.
- [288] H. Braunschweig, F. Breher, S. Capper, K. Dück, M. Fuß, J. O. C. Jimenez-Halla, I.
Krummenacher, T. Kupfer, D. Nied, K. Radacki
Heteroleptic [n]Chromoarenophanes: ansa Complexes Derived from [Cr(η⁵-C₅H₅)(η⁶-C₆H₆)]
Chem. Eur. J. **2013**, *19*, 270–281 (VIP).
- [287] H. Braunschweig, A. Damme, R. D. Dewhurst, A. Vargas
Bond-strengthening π backdonation in a transition-metal π-diborene complex.
Nature Chem. **2013**, *5*, 115–121.

2012

- [286] A. Damme and H. Braunschweig
Synthesis and characterization of diborane compounds
Acta Cryst. (2012). A68, s251.
- [285] P. Brenner and H. Braunschweig
The *trans*-influence of the boryl ligand in square-planar platinum(II) complexes
Acta Cryst. (2012). A68, s77.
- [284] H. Braunschweig, A. Damme, J. O. C. Jimenez-Halla, C. Hörl, I. Krummenacher, T. Kupfer, L.
Mailänder, K. Radacki
1-Heteroaromatic-Substituted Tetraphenylboroles: π-π Interactions Between Aromatic and
Antiaromatic Rings Through a B-C Bond
J. Am. Chem. Soc. **2012**, *134*, 20169–20177.
- [283] H. Braunschweig, A. Damme, J. Mies, M. Schäfer
Insertion of Chalcogens and Bis(tert-butylisonitril)palladium(0) into a Strained Ruthenium Half
Sandwich Complex
Z. Naturforsch. **2012**, *67b*, 1173–1177.
- [282] H. Braunschweig, A. Damme, T. Kupfer
Evidence for a strong *trans*-influence of the Diboran(4)yl ligand
Chem. Eur. J. **2012**, *18*, 15927–15931 (VIP).
- [281] H. Braunschweig, C. Hörl, F. Hupp, K. Radacki, J. Wahler
Borole-Derived Spirocyclic Tetraorganoborate
Organometallics **2012**, *31*, 8463–8466.
- [280] B. Bagh, N. C. Breit, K. Harms, G. Schatte, I. J. Burgess, H. Braunschweig, J. Müller
[1.1]Ferrocenophanes and Bis(ferrocenyl) Species with Aluminum and Gallium as Bridging
Elements: Synthesis, Characterization, and Electrochemical Studies
Inorg. Chem. **2012**, *51*, 11155–11167.
- [279] J. Bauer, H. Braunschweig, K. Radacki
Transmetallation Between Metal-Only Lewis Pairs: A New Rhodium Alane Complex
Chem. Commun. **2012**, *48*, 10407–10409.
- [278] H. Braunschweig, A. Damme, J. O. C. Jimenez-Halla, B. Pfaffinger, K. Radacki, J. Wolf
Metal-mediated Synthesis of 1,4-Di-*tert*-butyl-1,4-azaborine
Angew. Chem. **2012**, *124*, 10177–10180; *Angew. Chem. Int. Ed.* **2012**, *51*, 10034–10037.
- [277] J. Bauer, H. Braunschweig, A. Damme, K. Radacki
Reversible insertion of platinum into coinage metal-halogen bonds
Angew. Chem. **2012**, *124*, 10173–10176; *Angew. Chem. Int. Ed.* **2012**, *51*, 10030–10033.
- [276] H. Braunschweig, C.-W. Chiu, A. Damme, B. Engels, D. Gamon, C. Hörl, T. Kupfer, I.
Krummenacher, K. Radacki, C. Walter

Oligo(borolyl)benzenes - Synthesis and Properties
Chem. Eur. J. **2012**, *18*, 14292–14304.

- [275] H. Braunschweig, A. Damme, K. Hammond, J. Mager
Synthesis and Structure of New [3]Silametallocenophanes of Group 8 Metals
Organometallics **2012**, *31*, 6317–6321.
- [274] P. Bissinger, H. Braunschweig, A. Damme, T. Kupfer, A. Vargas
Base-stabilized Diborenes: Selective Generation and η^2 Side-on Coordination to Ag(I)
Angew. Chem. **2012**, *124*, 10069–10073; *Angew. Chem. Int. Ed.* **2012**, 9931–9934.
- [273] H. Braunschweig, A. Damme, R. D. Dewhurst, F. Hupp, J. O. C. Jimenez-Halla, K. Radacki
 σ -Donor/ σ -Acceptor Plumbylene Ligands: Synergic σ -Donation Between Ambiphilic Pt⁰ and Pb^{II} Fragments
Chem. Commun. **2012**, *48*, 10410–10412.
- [272] N. Arnold, H. Braunschweig, A. Damme
Bis[μ -di(isopropyl)phosphino]di(hydrido)bis[tri(isopropyl)phosphine]di(platinum)
Acta Cryst. **2012**, *E68*, m808.
- [271] H. Braunschweig, Q. Ye, K. Radacki, A. Damme
Borylene Transfer from an Iron Bis(borylene) Complex: Synthesis of 1,4-Diboracyclohexadiene and 1,4-Dibora-1,3-Butadiene Complexes
Angew. Chem. **2012**, *124*, 7959–7962; *Angew. Chem. Int. Ed.* **2012**, *51*, 7839–7842.
- [270] H. Braunschweig, R. D. Dewhurst, K. Hammond, J. Mies, A. Vargas, K. Radacki
Ambient-Temperature Isolation of a Compound with a Boron-Boron Triple Bond
Science **2012**, *336*, 1420–1422.
- [269] H. Braunschweig, A. Damme, J. O. C. Jimenez-Halla, T. Kupfer, K. Radacki
Phosphine Adducts of 1,2-Dibromo-1,2-dimesityldiborane(4): Between Bridging Halides and Rearrangement Processes
Angew. Chem. **2012**, *124*, 6372–6376; *Angew. Chem. Int. Ed.* **2012**, *51*, 6267–6271.
- [268] H. Braunschweig, P. Brenner, R. D. Dewhurst, F. Güthlein, J. O. C. Jimenez-Halla, K. Radacki, J. Wolf, L. Zöllner
Observation of Elementary Steps in the Catalytic Borane Dehydrocoupling Reaction
Chem. Eur. J. **2012**, *18*, 8605–8609.
- [267] H. Braunschweig, A. Damme, D. Gamon, H. Kelch, I. Krummenacher, T. Kupfer, K. Radacki
Synthesis, Coordination Behavior and Reduction Chemistry of Cymantrenyl-1,3-bis(2,3,4,5-tetraphenyl)borole
Chem. Eur. J. **2012**, *18*, 8430–8436.
- [266] H. Braunschweig, Q. Ye, A. Vargas, R. D. Dewhurst, K. Radacki, A. Damme
Controlled Homocatenation of Boron on a Transition Metal
Nature Chem. **2012**, *4*, 563–567.
- [265] H. Braunschweig, C.-W. Chiu, D. Gamon, M. Kaupp, I. Krummenacher, T. Kupfer, R. Müller, K. Radacki,
Synthesis, Structure and Reactivity of Borole-functionalized Ferrocenes
Chem. Eur. J. **2012**, *18*, 11732–11746.
- [264] J. Bauer, H. Braunschweig, R. D. Dewhurst
Metal-Only Lewis Pairs with Transition Metal Lewis Bases
Chem. Rev. **2012**, *112*, 4329–4346.
- [263] G. Hiltensperger, N. G. Jones, S. Niedermeier, A. Stich, J. Jung, S. Puhl, A. Damme, H. Braunschweig, L. Meinel, M. Engstler, U. Holzgrabe
Synthesis and Structure-Activity Relationships of New Quinolone-type Molecules against Trypanosoma brucei
J. Med. Chem. **2012**, *55*, 2538–2548.
- [262] K. H. Fischer, M. Schneider, I. Fischer, B. Pfaffinger, H. Braunschweig, B. Sztaray, A. Bodí
Bonding in a Borylene Complex Investigated by Photoionization and Dissociative Photoionization
Chem. Eur. J. **2012**, *18*, 4533–4540 (VIP).
- [261] N. Arnold, H. Braunschweig, P. Brenner, J. Oscar C. Jimenez-Halla, T. Kupfer, K. Radacki
Reactivity of Boryl Complexes: Synthesis and Structure of New Neutral and Cationic Platinum Boryls and Borylenes
Organometallics **2012**, *31*, 1897–1907.

- [260] H. Braunschweig, V. Dyakonov, J. O. C. Jiminez-Halla, K. Kraft, I. Krummenacher, K. Radacki, A. Sperlich, J. Wahler
An Isolable Radical Anion Based on the Borole Framework
Angew. Chem. **2012**, *124*, 3031–3034; *Angew. Chem. Int. Ed.* **2012**, *51*, 2977–2980.
- [259] H. Braunschweig, K. Radacki, Quing Ye
High Yield Synthesis of a Neutral and Carbonyl-rich Terminal Arylborylene Complex
Chem. Commun. **2012**, *48*, 2701–2703.
- [258] J. Bauer, H. Braunschweig, K. Gruss, F. Hupp, T. Kramer
New Metal-Only-Lewis-Pairs: Elucidating the Electronic Influence of NHCs and Phosphines on the Dative Pt-Al Bond
Inorg. Chem. **2012**, *51*, 5617–5626.
- [257] H. Braunschweig, C. Claes, F. Güthlein
Dehydrocoupling of Catecholborane Catalyzed by Group 4 Compounds
J. Organomet. Chem. **2012**, *706-707*, 144–145.
- [256] H. Braunschweig, M. Friedrich, K. Radacki, J. Wolf
Synthesis and Reactivity of Palladium- and Platinum-Bridged Heterobimetallic [3]Trochrocenophanes
Organometallics **2012**, *31*, 3027–3034.
- [255] H. Braunschweig, P. Brenner, R. D. Dewhurst, I. Krummenacher, B. Pfaffinger, A. Vargas
Unsupported Boron-Carbon σ-Coordination to Platinum – An Isolable Snapshot of σ-Bond Activation
Nature Communications., **2012**, *3*, Article Number 872, DOI:10.1038/NCOMMS1884.
- [254] H. Braunschweig, R. Dörfler, K. Hammond, T. Kramer, J. Mies, K. Radacki, M. Schäfer
Synthesis and Structure of Distanna and Tristanna *ansa* Half-Sandwich Complexes of Ruthenium and Nickel
Inorg. Chem. **2012**, *51*, 1225–1227.
- [253] Y. Kirchwehm, A. Damme, T. Kupfer, H. Braunschweig, A. Krüger
Ortho-methylated Tribenzotriquinacenes—paving the way to curved carbon networks
Chem. Commun. **2012**, *48*, 1502–1504.
- [252] H. Braunschweig, R. Dörfler, J. Mies, K. Radacki, M. Schmitt
Iron *ansa* Half Sandwich Complexes Bearing a Bridging Distannadiyl Moiety
J. Organomet. Chem. **2012**, *697*, 26–30.
- [251] J. Bauer, H. Braunschweig, R. D. Dewhurst, K. Kraft, K. Radacki
Monohaloboryls (BH_3^-) as Bridging Ligands: Observable Dinuclear σ-(Halo)boranyl Intermediates in the Synthesis of Metalloborlenes
Chem. Eur. J. **2012**, *18*, 2327–2334.
- [250] H. Braunschweig, T. Kupfer
[n]Boramettoarenophanes ($n = 1, 2$): Strained Systems with Uncommon Reactivity Patterns
Eur. J. Inorg. Chem. **2012**, *14*, 1319–1332.
- [249] H. Braunschweig, R. Dewhurst, K. Kraft, S. Östreicher, K. Radacki
Planar Four-Coordinate Boron: A Single, Flat Boron Atom as a Ligand for Four Metals
Angew. Chem. **2012**, *124*, 2225–2228; *Angew. Chem. Int. Ed.* **2012**, *51*, 2183–2186.

2011

- [248] J. Bauer, H. Braunschweig, A. Damme, K. Gruß, K. Radacki
Extending Unsupported Metal-Only Lewis Pairs to Palladium
Chem. Commun. **2011**, *47*, 12783–12785.
- [247] H. Braunschweig
Non-iron [n]Metalloarenophanes-Synthesis, Structure and Reactivity
Polymer Preprints, **2011**, *52*, 867.
- [246] H. Braunschweig
Non-iron [n]metalloarenophanes
ABSTR PAP AM CHEM S: 242nd ACS Meeting, POLY-550, AUG 28–SEP 01 2011, 2011.

- [245] P. Bissinger, H. Braunschweig, A. Damme, R. Dewhurst, T. Kupfer, K. Radacki, K. Wagner
Generation of a Carbene-stabilized Bora-borylene and its Insertion into a C-H Bond
J. Am. Chem. Soc. **2011**, *133*, 19044–19047.
- [244] H. Braunschweig, R. Dörfler, M. Friedrich, M. Kraft, A. Oechsner
Catalytic Activity of [2]Borametallocenophanes
Z. anorg. allg. Chem. **2011**, *637*, 2125–2128.
- [243] H. Braunschweig, F. Güthlein
Transition-Metal Catalyzed Synthesis of Diboranes(4)
Angew. Chem. **2011**, *123*, 12821–12824; *Angew. Chem. Int. Ed.* **2011**, *50*, 12613–12616.
- [242] H. Braunschweig, M. Drisch, M. Friedrich; T. Kupfer, K. Radacki
Metal-Enriched [3]Trochrocenophanes: Bimetallic Metalloarenophanes by Coordination to Chelating Bisphosphanyles
Organometallics **2011**, *30*, 5202–5207.
- [241] H. Braunschweig, R. Bertermann, P. Brenner, M. Burzler, R. Dewhurst, K. Radacki, F. Seeler
trans-[Pt(BCat')Me(PCy₃)₂]: An Experimental Case Study of Reductive Elimination Processes in Pt-Boryls *via* Associative Mechanisms
Chem. Eur. J. **2011**, *17*, 11828–11837 (VIP).
- [240] H. Braunschweig, R. Dörfler, J. Mies, A. Oechsner
Sterically Demanding Heterosubstituted [2]borametallocenophanes of Group IV Metals: Synthesis, Structure and Reactivity
Chem. Eur. J. **2011**, *17*, 12101–12107.
- [239] H. Braunschweig, T. Kupfer
Recent Developments in the Chemistry of Antiaromatic Boroles
Chem. Commun. **2011**, *47*, 10903–10914.
- [238] J. Bauer, H. Braunschweig, K. Kraft, K. Radacki
Oxidative addition of BF₃ to a transition metal
Angew. Chem. **2011**, *123*, 10641–10644; *Angew. Chem. Int. Ed.* **2011**, *50*, 10457–10460.
- [237] H. Braunschweig, A. Damme, T. Kupfer
Unexpected Bonding Mode of the Diboran(4)yl Ligand: Combining the Boryl Motif with a Dative Pt-B Interaction
Angew. Chem. **2011**, *123*, 7317–7320; *Angew. Chem. Int. Ed.* **2011**, *50*, 7179–7182.
- [236] H. Braunschweig, C.-W. Chiu, A. Damme, K. Ferkinghoff, K. Kraft, K. Radacki, J. Wahler
Unwinding Antiaromaticity in 1-Bromo-2,3,4,5-tetraphenylborole
Organometallics **2011**, *30*, 3210–3216.
- [235] M. M. Safont-Sempere, P. Osswald, M. Stolte, M. Grüne, M. Renz, M. Kaupp, K. Radacki, H. Braunschweig, F. Würthner
Impact of Molecular Flexibility on Binding Strength and Self-Sorting of Chiral π-Surfaces
J. Am. Chem. Soc. **2011**, *133*, 9580–9591.
- [234] C. J. Adams, H. Braunschweig, M. Fuß, K. Kraft, T. Kupfer, I. Manners, K. Radacki, G. R. Whittell
Syntheses of Group 4 ansa-Trovacene Complexes and Conversion of [1]Silatrovacenophanes to Paramagnetic Metallopolymers by Ring-Opening Polymerization
Chem. Eur. J. **2011**, *17*, 10379–10387.
- [233] H. Braunschweig, A. Damme, D. Gammon, T. Kupfer, K. Radacki
Synthesis and Coordination Chemistry of 1-cymantrenyl-2,3,4,5-tetraphenyl borole
Inorg. Chem. **2011**, *50*, 4250–4252.
- [232] F. Bauer, H. Braunschweig, K. Gruß, T. Kupfer
Diboration of Dialkynes with [2]Boraferrocenophanes
Organometallics **2011**, *30*, 2869–2884.
- [231] T. Arnold, H. Braunschweig, K. Gruß
Tris[η^5 , η^5 -1,2-bis(cyclopentadienyl)-1,1,2,2-tetramethyldisilaneoxozirconium(IV)]: a trimeric disila-bridged oxo-Zirconocene
Acta Cryst. **2011**, *E67*, m391.
- [230] J. Pfister, C. Schon, W. Roth, C. Kaiser, C. Lambert, K. Gruß, H. Braunschweig, I. Fischer, R. F. Fink, B. Engels
Paracyclophanes as Model Compounds for Strongly Interacting π-Systems, Part 3: Influence of the Substitution Pattern on Photoabsorption Properties
J. Phys. Chem. **2011**, *115*, 3583–3591.

- [229] H. Braunschweig, Q. Ye, A. Damme, T. Kupfer, K. Radacki, and J. Wolf
Synthesis of 1-Aza-2-borabutatriene Rhodium Complexes by Thermal Borylene Transfer from $[(OC)_5Mo=BN(SiMe_3)_2]$
Angew. Chem. **2011**, *123*, 9634–9638; *Angew. Chem. Int. Ed.* **2011**, *50*, 9462–9466.
- [228] H. Braunschweig, M. Fuß, T. Kupfer, K. Radacki
Selective Dilithiation of $[\text{Ti}(\eta^5\text{-C}_5\text{H}_5)(\eta^8\text{-C}_8\text{H}_8)]$ and Subsequent Conversion into Neutral and Cationic *ansa*-Complexes
J. Am. Chem. Soc. **2011**, *133*, 5780–5783.
- [227] H. Braunschweig, M. Friedrich, T. Kupfer, K. Radacki
Heteroleptic [1]Zirconametallocarenophanes: Potential Precursors to Metal-enriched Metallocopolymers
Chem. Commun. **2011**, *47*, 3998–4000.
- [226] H. Braunschweig, S. Ghosh, T. Kupfer, K. Radacki, J. Wahler
High Yield Synthesis of a Hybrid 2,3,4,5-Tetracarba-1,6-*nido*-hexaborane(6) Cluster with an *exo*-Polyhedral Boracycle
Chem. Eur. J. **2011**, *17*, 4081–4084.
- [225] H. Braunschweig, Q. Ye, K. Radacki, T. Kupfer
Reactivity of a Platinum-substituted Borirene
J. Chem. Soc., Dalton Trans. **2011**, *40*, 3421–3760.
- [224] P. Bissinger, H. Braunschweig, K. Kraft, T. Kupfer
Trapping the Elusive Parent Borylene
Angew. Chem. **2011**, *123*, 4801–4804; *Angew. Chem. Int. Ed.* **2011**, *50*, 4704–4707.
- [223] K. K. Pandey, H. Braunschweig, M. Forster, K. Gruß, K. Radacki
Carbonyl and Fluoroborylene Complexes of Platinum(0): Synthesis and Structure of $[(Cy_3P)_2Pt(CO)]$ and $[(Cy_3P)_2Pt(CO)_2]$; DFT Study of $[(Me_3P)_2PtL]$ and $[(Me_3P)_2PtL_2]$ ($L = CO, BF$)
Inorg. Chem. **2011**, *50*, 1816–1819.
- [222] H. Braunschweig, R. Dörfler, K. Gruß, K. Radacki
Synthesis and Reactivity of a Dilithiated Molybdenum Half-Sandwich Complex
Z. anorg. allg. Chem. **2011**, *637*, 381–385.
- [221] H. Braunschweig, K. Gruß
Synthesis and structural characterization of the dinuclear Beryllium species $[Be_2Cl_2(\mu-Cl)_2(PCy_3)_2]$
Z. Naturforsch. **2011**, *66b*, 55–57.
- [220] K. Ansorg, H. Braunschweig, C.-W. Chiu, B. Engels, D. Gamon, M. Hügel, T. Kupfer, K. Radacki
The pentaphenylborole-2,6-lutidine adduct: A thermo- and photochromic system
Angew. Chem. **2011**, *123*, 2885–2888; *Angew. Chem. Int. Ed.* **2011**, *50*, 2833–2836.
- [219] K. K. Pandey, H. Braunschweig, A. Lledós
Nature of Bonding in Terminal Borylene, Alylene and Gallylene complexes of Vanadium and Niobium $[(\eta^5\text{-C}_5\text{H}_5)(CO)_3M(ENR_2)]$ ($M = V, Nb$; $E = B, Al, Ga$; $R = CH_3, SiH_3, CMe_3, SiMe_3$): A DFT Study
Inorg. Chem. **2011**, *50*, 1402–1410.
- [218] H. Braunschweig, R. Dörfler, K. Gruß, J. Köhler, K. Radacki
Insertion vs. Ligand Exchange: The Reactivity of Distanna-*ansa*-Half Sandwich Complexes towards Isocyanide and Phosphine Complexes of Nickel and Palladium
Organometallics **2011**, *30*, 305–312.
- [217] F. Bauer, H. Braunschweig, K. Gruß, K. K. Pandey
Unexpected Generation of Diastereomers by Double Diboration of a Dialkyne
Chem. Eur. J. **2011**, *17*, 5230–5233.
- [216] H. Braunschweig, R. D. Dewhurst
Transition metals as Lewis bases: “Z-type” boron ligands and metal-to-boron dative bonding
J. Chem. Soc. Dalton Trans. **2011**, *40*, 549–558.
- [215] H. Braunschweig, M. Gross, K. Kraft
Synthesis and Reactivity of [2]Disilaniobocenophanes
J. Organomet. Chem. **2011**, *696*, 568–571.

- [214] H. Braunschweig, R. D. Dewhurst, K. Kraft, K. Radacki
Borido complexes via intermetallic metalloborylene transfer
Chem. Commun. **2011**, *47*, 9900–9902.
- [213] H. Braunschweig, C.-W. Chiu, T. Kupfer, K. Radacki
NHC-Stabilized 1-Hydro-1*H*-borole and Its Nondegenerate Sigmatropic Isomers
Inorg. Chem. **2011**, *50*, 4247–4249.
- [212] H. Braunschweig, P. Brenner, Q. Ye, K. Radacki, G. Frenking, S. De
Borylene-based Functionalization of Iron-alkynyl- σ -complexes and Stepwise Reversible Metal-boryl-to-borirene Transformation: Synthesis, Characterization and DFT Studies
Inorg. Chem. **2011**, *50*, 62–71.
- [211] K. K. Pandey, H. Braunschweig
DFT Study on the Alkylborylene and Haloborylene Complexes of Manganese and Rhenium: Structure and Bonding Energy Analysis in $[(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2\text{M}(\text{BR})]$ and $[(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2\text{M}(\text{BX})]$ ($\text{M} = \text{Mn, Re}$; $\text{R} = \text{Me, Et, }^1\text{Pr, }^1\text{Bu}$; $\text{X} = \text{F, Cl, Br, I})$
Eur. J. Inorg. Chem. **2011**, *13*, 2045–2056.
- [210] H. Braunschweig, P. Cogswell, K. Schwab
Synthesis, Structure and Reactivity of Complexes Containing a Transition Metal-Bismuth Bond
Coord. Chem. Rev. **2011**, *255*, 101–117.

2010

- [209] H. Braunschweig, A. Damme
1,2-Bis(dimethylamino)-1,2-bis(2,4,6-triisopropylphenyl)diborane(4)
Acta Cryst. **2010**, *E66*, o3367.
- [208] H. Braunschweig, J. Mies, R. Dörfler, K. Hammond, K. Radacki
Synthesis and Structure of Trisila-bridged *ansa* Half-sandwich Complexes of Group 6 Metals
Eur. J. Inorg. Chem. **2010**, 5383–5385.
- [207] P. Bissinger, H. Braunschweig, T. Kupfer, K. Radacki
Monoborane NHC Adducts in the Coordination Sphere of Transition Metals
Organometallics **2010**, *29*, 3987–3990.
- [206] H. Braunschweig, A. Damme, T. Kupfer
New [2]Boraferrocenophane and Diferrocenyldiborane(4) Derivatives
Eur. J. Inorg. Chem. **2010**, *28*, 4423–4426.
- [205] H. Braunschweig, K. Kraft, T. Kupfer, E. Siedler
A Manganese- σ -Borane Complexes of Dihaloboranes
Z. anorg. allg. Chem. **2010**, *636*, 2565–2567.
- [204] H. Braunschweig, F. Breher, C.-W. Chiu, D. Gamon, D. Nied, K. Radacki
Reduction Chemistry of Ferrocenylborole
Angew. Chem. **2010**, *122*, 9159–9162; *Angew. Chem. Int. Ed.* **2010**, *49*, 8975–8978.
- [203] H. Braunschweig, P. Brenner, M. Gross, K. Radacki
Reactivity of [1],[1]Disilamolybdenocenophane towards zerovalent Platinum Complexes
J. Am. Chem. Soc. **2010**, *132*, 11343–11349.
- [202] H. Braunschweig, C.-W. Chiu, J. Wahler, K. Radacki, T. Kupfer
Chemical Reduction and Dimerization of 1-Chloro-2,3,4,5-tetraphenylborole
Chem. Eur. J. **2010**, *16*, 12229–12239.
- [201] H. Bera, H. Braunschweig, A. Oechsner, R. Sigritz, F. Seeler
Synthesis of a Distanna-[2]ferrocenophane and Reactivity of [2]Ferrocenophanes towards elemental Sulfur and Selenium
J. Organomet. Chem. **2010**, *695*, 2609–2613.
- [200] H. Braunschweig, M. Fuß, S. K. Mohapatra, K. Kraft, T. Kupfer, M. Lang, K. Radacki, C. G. Daniliuc, P. G. Jones, M. Tamm
Synthesis and Reactivity of Boron-, Silicon- and Tin-Bridged *ansa*-Cyclopentadienyl-Cycloheptatrienyl Titanium Complexes (Troticenophanes)
Chem. Eur. J. **2010**, *16*, 11732–11743.
- [199] H. Braunschweig, P. Brenner, P. Cogswell, K. Kraft, K. Schwab
Oxidative Addition of the Bismuth-chloride Bond: Synthesis and Structure of *trans*-

- [PtCl(PCy₃)₂{BiCl₂}]
Chem. Commun. **2010**, 7894–7896.
- [198] H. Braunschweig, F. Matz, K. Radacki, A. Schneider
 Reactivity of a Platinum Iminoboryl Complex towards Element-Hydrogen Bonds of Opposing Polarity
Organometallics **2010**, 29, 3457–3462.
- [197] S. Bertsch, H. Braunschweig, B. Christ, M. Forster, K. Schwab, K. Radacki
 Towards homoleptic borylene complexes – Incorporation of two borylene ligands into a mononuclear iridium species
Angew. Chem. **2010**, 122, 9707–9710; *Angew. Chem. Int. Ed.* **2010**, 49, 9517–9520.
- [196] H. Braunschweig, K. Radacki, A. Schneider
 Reactivity of an Oxboryl Complex toward Flourinated Aryl Boron Reagents
Chem. Commun. **2010**, 6473–6475.
- [195] H. Braunschweig, K. Kraft, S. Östreicher, K. Radacki, F. Seeler
 Neutral and anionic transition metal-base stabilized metalloborylene complexes
Chem. Eur. J. **2010**, 16, 10635–10637 (VIP).
- [194] J. Bauer, H. Braunschweig, P. Brenner, K. Kraft, K. Radacki, K. Schwab
 Late transition metal complexes as tunable Lewis-bases
Chem. Eur. J. **2010**, 16, 11985–11992.
- [193] K. K. Pandey, P. Patidara, H. Braunschweig
 Structure and Bonding Energy Analysis of M-Ga Bonds in Dihalogallyl Complexes [X(PMe₃)₂M(GaX₂)] (M = Ni, Pd, Pt; X = Cl, Br, I)
Inorg. Chem. **2010**, 49, 6994–7000.
- [192] H. Bera, H. Braunschweig, R. Dörfler, T. Kupfer, K. Radacki, F. Seeler
 Half-sandwich Tungsten Complexes with Metal- and η⁵-Cyclopentadienyl-bound Functional Stannyl Groups and their Transformation into *ansa* Complexes
Organometallics **2010**, 29, 5111–5120.
- [191] H. Braunschweig, K. Kraft, K. Radacki, S. Stellwag
 Molybdenum-Boron Bonds in the Crystal – Structural Characterization of K[(η⁵-C₅H₅)Mo(CO)₃] and [(η⁵-C₅H₅)(OC)₃Mo-B(NMe₂)-B(NMe₂)Br]
Z. Naturforsch. **2010**, 65b, 1073–1076.
- [190] H. Braunschweig, K. Radacki, A. Schneider
 Cyclodimerization of an Oxboryl Complex induced by *trans* Ligand Abstraction
Angew. Chem. **2010**, 122, 6130–6133; *Angew. Chem. Int. Ed.* **2010**, 49, 5993–5996 (VIP).
- [189] H. Braunschweig, R. Dewhurst
 Fashionably Late: Synthesis and Characterization of Transition Metal-Fluoroborylene Complexes
Angew. Chem. **2010**, 122, 3486 – 3488; *Angew. Chem. Int. Ed.* **2010**, 49, 3412–3414.
- [188] H. Braunschweig, K. Radacki, A. Schneider
 Oxboryl Complexes: Boron–Oxygen Triple Bonds stabilized in the Coordination Sphere of Platinum
Science, **2010**, 328, 345–347.
- [187] H. Braunschweig, R. D. Dewhurst, K. Wagner, K. Schwab
 [N',N"-bis[2,6-bis(1-methylethyl)phenyl]-N,N-dimethylguanidinato-κN',κN"]dibromoborane
Acta Cryst. **2010**, E66, o610.
- [186] J. Köhler, S. Lindenmaier, I. Fischer, H. Braunschweig, T. Kupfer, D. Gamon, C.-W. Chiu
 Probing Antiaromaticity: Resonance Raman Investigation of a series of differently substituted boroles
J. Raman Spectrosc. **2010**, 41, 636–641; online DOI 10.1002/jrs.2491.
- [185] V. Alptüzün, M. Prinz, V. Hörr, J. Scheiber, K. Radacki, A. Fallarero, P. Vuorela, B. Engels, H. Braunschweig, E. Erciyas, U. Holzgrabe
 Interaction of (benzylidene-hydrazono)-1,4-dihydropyridines with beta-amyloid, acetylcholine and butyrylcholine esterases
Bioorg. Med. Chem. **2010**, 18, 2049–2059.
- [184] H. Braunschweig, C.-W. Chiu, K. Radacki, T. Kupfer
 Synthesis and Structure of a N-Heterocyclic Carbene Stabilized π-Boryl Anion
Angew. Chem. **2010**, 122, 2085–2088; *Angew. Chem. Int. Ed.* **2010**, 49, 2041–2044 (VIP).

- [183] H. Braunschweig, R. D. Dewhurst, A. Schneider
Electron-Precise Coordination Modes of Boron-Centered Ligands
Chem. Rev. **2010**, *110*, 3924–3957.
- [182] F. Bauer, H. Braunschweig, K. Schwab
1,1-Diboration of isocyanides with [2]borametallocarenophanes
Organometallics **2010**, *29*, 934–938.
- [181] H. Braunschweig, C.-W. Chiu, K. Radacki, P. Brenner
Platinum substituted boroles
Chem. Commun. **2010**, 916–918.
- [180] H. Braunschweig, K. Radacki, K. Schwab
An early-late heterobimetallic complex with an unsupported dative bond: synthesis and structure of $[(\text{Cy}_3\text{P})_2\text{Pt}-\text{ZrCl}_4]$
Chem. Commun. **2010**, 913–915.
- [179] T. Arnold, H. Braunschweig, M. Gross, M. Kaupp, R. Müller, K. Radacki
Electronic Structure and Reactivity of a Disila[1],[1]molybdenocenophane
Chem. Eur. J. **2010**, *16*, 3014–3020.
- [178] H. Braunschweig, T. Kupfer
Non-Iron [n]Metallocarenophanes
Acc. Chem. Res. **2010**, *43*, 455–465.

2009

- [177] S. Yu. Ketkov, N. A. Isachenkov, H. Braunschweig, T. Kupfer
Electronic structures of mixed sandwich *ansa*-complexes of chromium as studied by gas-phase absorption spectroscopy and quantum chemistry
Russ. Chem. Bull., Int. Ed., **2009**, *58*, 682–690.
- [176] M. Breuning, T. Häuser, C. Mehler, C. Däschlein, C. Strohmann, A. Öchsner, H. Braunschweig
Enantioselective synthesis of tricyclic amino acid derivatives based on a rigid 4-azatricyclo[5.2.1.0^{2,6}]decane skeleton
Beilstein J. Org. Chem. **2009**, *5*, No. 81. doi:10.3762/bjoc.5.81
- [175] U. Mayerhöffer, K. Deing, K. Gruß, H. Braunschweig, K. Meerholz, F. Würthner
Outstanding Short-Circuit Currents in BHJ Solar Cells Based on NIR-Absorbing Acceptor-Substituted Squaraines
Angew. Chem. **2009**, *121*, 8934–8937; *Angew. Chem. Int. Ed.* **2009**, *48*, 8776–8779.
- [174] H. Braunschweig, R. D. Dewhurst, K. Radacki, K. Wagner
Dichlorphenylborane-2-(dicyclohexylphosphino)-2',4',6'-triisopropylbiphenyl
Acta Cryst. **2009**, *E65*, o2787.
- [173] H. Braunschweig, Q. Ye, K. Radacki
Borylene-Based Functionalization of Pt Alkynyl Complexes by Photochemical Borylene Transfer from $[(\text{OC})_5\text{Cr}=\text{BN}(\text{SiMe}_3)_2]$
Chem. Commun. **2009**, 6979–6981.
- [172] H. Braunschweig, P. Brenner, R. D. Dewhurst, M. Kaupp, R. Müller, S. Östreicher
A Trimetallic Boride Complex with an Unprecedented Type of Fluxional Gold-Boron Bonding
Angew. Chem. **2009**, *121*, 9916–9919; *Angew. Chem. Int. Ed.* **2009**, *48*, 9735–9738.
- [171] H. Braunschweig, C.W. Chiu, K. Radacki, D. Gamon
Synthesis and characterization of a platinum η^1 -borole complex
ABSTRACTS PAP AM CHEM S: 238th ACS Meeting, INOR-592, 16–20 AUG 2009, **2009**.
- [170] H. Braunschweig, B. Grünewald, K. Schwab, R. Sigritz
1,1'-Diborylferrocenes from [2]Boraferrocenophanes by Boron–Boron Exchange
Eur. J. Inorg. Chem. **2009**, 4860–4863.
- [169] H. Braunschweig, T. Herbst, K. Radacki, G. Frenking, M. A. Celik
Chemoselective boron–carbon bond cleavage by hydroboration of borirenes
Chem. Eur. J. **2009**, *15*, 12099–12106.
- [168] H. Bera, H. Braunschweig, R. Dörfler, K. Hammond, A. Öchsner, K. Radacki, K. Uttinger
Synthesis, Structure and Reactivity of Disila- and Distanna *ansa* Half-Sandwich Complexes of

- Molybdenum and Tungsten
Chem. Eur. J. **2009**, *15*, 12092–12098.
- [167] H. Braunschweig, R. D. Dewhurst
Borylene Complexes as Reagents in Organic and Organometallic Synthesis
Chim. Oggi-Chem. Today **2009**, *27*, 27–29.
- [166] H. Braunschweig, R. D. Dewhurst, K. Kraft, K. Radacki
Low-Coordinate Boride Ligands: A True Trimetalloborane
Angew. Chem. **2009**, *121*, 5951–5954; *Angew. Chem. Int. Ed.* **2009**, *48*, 5837–5840.
- [165] H. Braunschweig, T. Herbst, D. Rais, S. Ghosh, T. Kupfer, K. Radacki, A. Crawford, R. Ward, T. Marder, I. Fernandez, G. Frenking
Borylene-based Direct Functionalization of Organic Substrates: Synthesis, Characterization and Photophysical Properties of π -Conjugated Borinanes
J. Am. Chem. Soc. **2009**, *131*, 8989–8999.
- [164] H. Braunschweig, B. Christ, M. Colling-Hendelkens, M. Forster, K. Götz, M. Kaupp, K. Radacki, F. Seeler
Synthesis, Structure, and Bonding of Novel Homodinuclear Cobalt and Nickel Borylene Complexes.
Chem. Eur. J. **2009**, *15*, 7150–7155.
- [163] H. Braunschweig, P. Brenner, K. Radacki
A Bromide bridged Platinum(II)complex as Precursor to a neutral Platinum Compound with a Base-Stabilized Borylene Ligand
Z. anorg. allg. Chem. **2009**, *635*, 2089–2092.
- [162] H. Braunschweig, T. Kupfer, J. Mies, A. Oechsner
Bisfluorenyl[2]borametallocenophanes of Group 4 Metals: Synthesis and Structure
Eur. J. Inorg. Chem. **2009**, *2844*–2850.
- [161] R. Schmidt, J. Hak Oh, Y. Sun, M. Deppisch, A. Krause, K. Radacki, H. Braunschweig, M.Könemann, P. Erk, Z. Bao, F. Würthner
High-Performance Air-Stable n-Channel Organic Thin Film Transistors Based on Halogenated Perylene Bisimide Semiconductors
J. Am. Chem. Soc. **2009**, *131*, 6215–6228.
- [160] H. Braunschweig, K. Gruss, K. Radacki
Complexes with dative bonds between d- and s-block metals: synthesis and structure of $[(\text{Cy}_3\text{P})_2\text{Pt}-\text{Be}(\text{Cl})\text{X}]$ ($\text{X} = \text{Cl}, \text{Me}$)
Angew. Chem. **2009**, *121*, 4303–4305; *Angew. Chem. Int. Ed.* **2009**, *48*, 4239–4241.
- [159] H. Braunschweig, R. D. Dewhurst
Reversible σ -Borane-to-Borylene Transformation: A Little Something For Everyone
Angew. Chem. **2009**, *121*, 1925–1927; *Angew. Chem. Int. Ed.* **2009**, *48*, 1893–1895.
- [158] H. Braunschweig, M. Forster, F. Seeler
Synthesis and Structure of Heterodinuclear Rhodium and Iridium Borylene Complexes
Chem. Eur. J. **2009**, *15*, 469–473.
- [157] H. Braunschweig, R. Dörfler, J. Mager, K. Radacki, F. Seeler
Structural characterization of the anionic halfsandwich complex $[\text{Li}(\text{TMEDA})_2][\text{Mo}(\eta^5-\text{C}_5\text{H}_5)(\text{CO})_3]$ and its reactivity towards stannanes and distannanes
J. Organomet. Chem. **2009**, *694*, 1134–1137.
- [156] H. Braunschweig, M. Fuß, K. Radacki, K. Uttinger
Synthesis of chloro boryl complexes by oxidative addition of B-Cl bonds
Z. anorg. allg. Chem. **2009**, *635*, 208–210.
- [155] K. Götz, M. Kaupp, H. Braunschweig, D. Stalke
Comparative Analysis of Electron Density and Electron Localization Function for Dinuclear Manganese Complexes with Bridging Boron- and Carbon-Centered Ligands
Chem. Eur. J. **2009**, *15*, 623–632.

2008

- [154] G. Bringmann, D. Götz, T. Gulder, T. Gehrke, T. Bruhn, T. Kupfer, K. Radacki, H. Braunschweig, A. Heckmann, C. Lambert
Axially Chiral beta,beta'-Bisporphyrins: Synthesis and Configurational Stability Tuned by the Central Metals
J. Am. Chem. Soc. **2008**, *130*, 17812–17825.
- [153] C. E. Anderson, H. Braunschweig, R. D. Dewhurst
Borylene transfer from transition metal borylene complexes
Organometallics **2008**, *27*, 6381–6389.
- [152] H. Braunschweig, K. Radacki, K. Uttinger
Syntheses and structures of mono- and dinuclear cationic base-stabilized platinum borylene complexes
Organometallics **2008**, *27*, 6005–6012.
- [151] H. Braunschweig, K. Gruss, K. Radacki
The reactivity of Pt⁰ complexes towards gallium(III) halides: Synthesis of a platinum gallane complex and oxidative addition of gallium halides to Pt⁰
Inorg. Chem. **2008**, *47*, 8595–8597.
- [150] H. Braunschweig, M. Gross, K. Radacki, C. Rothgaengel
Intramolecular Activation of a [2]Silamolybdenocenophanedihydride – Synthesis and Structure of a [1],[1]Metalloarenophane
Angew. Chem. **2008**, *120*, 10127–10129; *Angew. Chem. Int. Ed.* **2008**, *47*, 9979–9981.
- [149] H. Braunschweig, M. Gross, K. Hammond, M. Friedrich, M. Kraft, A. Oechsner, K. Radacki, S. Stellwag
[2]Borometallocenophanes of Group 4 Metals: Synthesis and Structure
Chem. Eur. J. **2008**, *14*, 8972–8979.
- [148] H. Braunschweig, M. Kaupp, C. Lambert, D. Nowak, K. Radacki, S. Schinzel, K. Uttinger
Synthesis and Structure of a Ferrocenyl Boron Dication
Inorg. Chem. **2008**, *47*, 7456–7458.
- [147] H. Braunschweig, F. Breher, M. Kaupp, M. Groß, T. Kupfer, D. Nied, K. Radacki, S. Schinzel
Synthesis, Crystal Structure, EPR and DFT studies and Redox Properties of [2]Tetramethyldisilacobaltocenophane
Organometallics **2008**, *27*, 6427–6433.
- [146] H. Braunschweig, T. Kupfer
Direct Functionalization at the Boron Centre of Antiaromatic Chloroborole
Chem. Commun. **2008**, 4487–4489.
- [145] H. Braunschweig, K. Radacki, K. Uttinger
T-shaped platinum boryl complexes – synthesis and structure
Chem. Eur. J. **2008**, *14*, 7858–7866.
- [144] H. Braunschweig, M. Kaupp, C. J. Adams, T. Kupfer, K. Radacki, S. Schinzel
Synthesis, Reactivity and Electronic Structure of [n]Vanadoarenophanes: An Experimental and Theoretical Study
J. Am. Chem. Soc. **2008**, *130*, 11376–11393.
- [143] H. Braunschweig, M. Burzler, R. D. Dewhurst, K. Radacki
A Linear, Anionic Dimetalloborylene Complex
Angew. Chem. **2008**, *120*, 5732–5735; *Angew. Chem. Int. Ed.* **2008**, *47*, 5650–5653.
- [142] H. Braunschweig, R. D. Dewhurst, T. Herbst, K. Radacki
Reactivity of a terminal chromium borylene complex towards olefins – insertion of borylenes into C-H bonds
Angew. Chem. **2008**, *120*, 6067–6069; *Angew. Chem. Int. Ed.* **2008**, *47*, 5978–5980.
- [141] H. Braunschweig, M. Forster, T. Kupfer, F. Seeler
Borylene Transfer under Thermal Conditions: Synthesis and Structure of New Rhodium and Iridium Borylene Complexes
Angew. Chem. **2008**, *120*, 6070–6072; *Angew. Chem. Int. Ed.* **2008**, *47*, 5981–5983.

- [140] H. Braunschweig, H. Green, K. Radacki, K. Uttinger
Synthesis of η^1 -Borazine Complexes of Palladium and Platinum
J. Chem. Soc. Dalton Trans. **2008**, 3531–3534.
- [139] H. Braunschweig, M. Burzler, R. Dewhurst, K. Radacki, F. Seeler
Dimanganese Bridging Borylene Complexes and their Reactions with Unsaturated Pd(0)
Complexes – Syntheses, Structures and Calculated Properties
Z. anorg. allg. Chem. **2008**, 634, 1875–1879.
- [138] H. Braunschweig, T. Kupfer, K. Radacki, A. Schneider, F. Seeler, K. Uttinger, H. Wu
Synthesis and Reactivity Studies of Iminoboryl Complexes
J. Am. Chem. Soc. **2008**, 130, 7974–7983.
- [137] T. Auch, H. Braunschweig, K. Radacki, R. Sigritz, U. Siemeling, S. Stellwag
Synthesis and Crystal Structure of 1,3-Diphenyl-2-ferrocenyl-1,3,2-diazabora-[3]-
ferrocenophane
Z. Naturforsch. **2008**, 63b, 920–922.
- [136] H. Braunschweig, C. Kollann, F. Seeler
Transition Metal Borylene Complexes
Struct. Bond. **2008**, 130, 1–27.
- [135] U. Flierler, M. Burzler, D. Leusser, J. Henn, H. Ott, H. Braunschweig, D. Stalke
Electron Density Investigation of Metal-Metal Bonding in the Dinuclear Borylene Complex
[$\{\text{Cp}(\text{CO})\text{Mn}\}_2(\mu-\text{B}^t\text{Bu})$]
Angew. Chem. **2008**, 120, 4393–4397; *Angew. Chem. Int. Ed.* **2008**, 47, 4321–4325.
- [134] H. Braunschweig, T. Kupfer
Stoichiometric and Homogeneous-Catalytic Diboration of the N=N Double Bond of
Azobenzene
J. Am. Chem. Soc. **2008**, 130, 4242–4243.
- [133] H. Braunschweig, K. Kraft, T. Kupfer, K. Radacki, F. Seeler
 B^+ in the coordination sphere of two transition metals
Angew. Chem. **2008**, 120, 5009–5011; *Angew. Chem. Int. Ed.* **2008**, 47, 4931–4933.
- [132] H. Braunschweig, C. J. Adams, T. Kupfer, I. Manners, R. Richardson, G. R. Whittell
Synthesis of a Paramagnetic Polymer by Ring-Opening Polymerization of a Strained
[1]Vanadoarenophane
Angew. Chem. **2008**, 120, 3886–3889; *Angew. Chem. Int. Ed.* **2008**, 47, 3826–3829, (VIP).
- [131] H. Braunschweig, K. Gruß, K. Radacki, K. Uttinger
Oxidative Addition of B-Br bonds to Pd^0 – Synthesis and Structure of trans-
Bromo(boryl)palladium Complexes
Eur. J. Inorg. Chem. **2008**, 1462–1466.
- [130] H. Braunschweig, I. Fernandez, G. Frenking, T. Kupfer
Structural Evidence for the Antiaromaticity in Free Boroles
Angew. Chem. **2008**, 120, 1977–1980; *Angew. Chem. Int. Ed.* **2008**, 47, 1951–1954.
- [129] H. Braunschweig, R. Leech, D. Rais, K. Radacki, K. Uttinger
Conversion of *trans*-Bromoboryl Platinum Complexes into their *cis*-Analogs upon Treatment
with Chelating Bisphosphines
Organometallics **2008**, 27, 418–422.
- [128] L. Apostolico, H. Braunschweig, A. G. Crawford, T. Herbst, D. Rais
Group VI Metal Aminoborylene Complex-Catalyzed Demercuration Reactions of
Bis(alkynyl)mercurials
Chem. Commun. **2008**, 497–498.
- [127] H. Bera, H. Braunschweig, R. Dörfler, K. Radacki
Synthesis of a Bimetallic Platinum-Tungsten Complex with a bridging μ -Diboranyl-oxycarbyne
Moiety
J. Chem. Soc., Dalton Trans. **2008**, 440–443.

2007

- [126] H. Braunschweig, M. Groß, K. Radacki
Synthesis, Molecular Structure and Reactivity of the First Strained [2]Silanickelocenophane
Organometallics **2007**, 26, 6688–6690.
- [125] H. Braunschweig, M. Burzler, K. Radacki, F. Seeler
Borylene Metathesis via [2+2]Cycloaddition
Angew. Chem. **2007**, 119, 8217–8219; *Angew. Chem. Int. Ed.* **2007**, 46, 8071–8073.
- [124] H. Braunschweig, K. Radacki, D. Rais, A. Schneider, F. Seeler
Reactivity of a Platinum Iminoboryl Complex toward Lewis and Brønsted Acids
J. Am. Chem. Soc. **2007**, 129, 10350–10351.
- [123] H. Braunschweig, K. Radacki, K. Uttinger
Syntheses of Mono- and Dinuclear Diiodboryl Complexes of Platinum
Inorg. Chem. **2007**, 46, 8796–8800.
- [122] P. Bissinger, H. Braunschweig, F. Seeler
Syntheses and Structure of Bridged Haloborylene Complexes
Organometallics **2007**, 26, 4700–4701.
- [121] H. Braunschweig, K. Gruss, K. Radacki
Interaction between d- and p-metals: synthesis and structure of platinum alane adducts
Angew. Chem. **2007**, 119, 7929–7931; *Angew. Chem. Int. Ed.* **2007**, 46, 7782–7784.
- [120] S. Mathur, T. Rügamer, H. Braunschweig, G. D'Andola
Investigations on Chemical Vapor Deposition of Magnesium-Boron-Containing Metal-Organic Precursors
Z. anorg. allg. Chem. **2007**, 633, 2459–2462.
- [119] H. Braunschweig, T. Kupfer
Transition-Metal Catalyzed Bis-Silylation of Propyne by [2]Chromoarenophanes
Organometallics **2007**, 26, 4634–4638.
- [118] H. Braunschweig, M. Burzler, T. Kupfer, K. Radacki, F. Seeler
Synthesis and Electronic Structure of a Terminal Alkylborylene Complex
Angew. Chem. **2007**, 119, 7932–7934; *Angew. Chem. Int. Ed.* **2007**, 46, 7785–7787.
- [117] H. Braunschweig, T. Kupfer, M. Lutz, K. Radacki
Ansa [1]Trochrocenophanes and their Related Unstrained 1,1'-Disubstituted Counterparts: Synthesis and Electronic Structure
J. Am. Chem. Soc. **2007**, 129, 8893–8906.
- [116] H. Braunschweig, P. Brenner, A. Müller, K. Radacki, D. Rais, K. Uttinger
Experimental Studies on the *trans*-Influence of Boryl Ligands in Square-planar Platinum(II) Complexes
Chem. Eur. J. **2007**, 13, 7171–7176.
- [115] H. Braunschweig, K. Radacki, K. Uttinger
Synthesis and Characterization of Semi-Bridging Molybdenum Borylene Complexes
Eur. J. Inorg. Chem. **2007**, 4350–4356.
- [114] H. Braunschweig, H. Bera, S. Stellwag, S. Schwarz, Y. Hemberger, K. Radacki
[$\{\text{Br}_2\text{B}(\eta^5\text{-C}_5\text{H}_4)\}\text{Mn}(\text{CO})_3$] – A versatile Precursor for Boron-based Ligands
Z. anorg. allg. Chem. **2007**, 633, 2314–2320.
- [113] H. Braunschweig, M. Förster, K. Radacki, F. Seeler, G. R. Whittell
Stepwise Intermetal Borylene Transfer: Synthesis and Structure of Mono- and Dinuclear Cobalt Borylene Complexes
Angew. Chem. **2007**, 119, 5304–5306; *Angew. Chem. Int. Ed.* **2007**, 46, 5212–5214 (VIP).
- [112] H. Braunschweig, H. Bera, B. Geibel, R. Dörfler, D. Götz, F. Seeler, T. Kupfer
Synthesis of Half-sandwich Tungsten Chlorogermyl and Chlorostannyl Complexes
Eur. J. Inorg. Chem. **2007**, 3416–3424.
- [111] H. Braunschweig, G. Frenking, K. Radacki, F. Seeler, I. Fernández
Synthesis and electronic structure of a ferroborirene
Angew. Chem. **2007**, 119, 5307–5310; *Angew. Chem. Int. Ed.* **2007**, 46, 5215–5218.
- [110] H. Braunschweig, N. Buggisch, U. Englert, M. Homberger, T. Kupfer, D. Leusser, M. Lutz, K. Radacki
Dilithiation of Bis(benzene)molybdenum and Subsequent Isolation of a Molybdenum-

- containing Paracyclophane
J. Am. Chem. Soc. **2007**, *129*, 4840–4846.
- [109] H. Braunschweig, F. Seeler, R. Sigritz
Alternative Synthesis and Crystal Structure of a [2]Boraferrocenophane
J. Organomet. Chem. **2007**, *692*, 2354–2356.
- [108] H. Braunschweig, G.K.B. Clentsmith, S. Hess, T. Kupfer, K. Radacki
Interaction of Dilithiated Ferrocene with AlMe₂Cl Reagents
Inorg. Chim. Acta **2007**, *360*, 1274–1277.
- [107] H. Braunschweig, K. Radacki, K. Uttinger
Synthesis and Structure of a Cationic Platinum Borylene Complex
Angew. Chem. **2007**, *119*, 4054–4057; *Angew. Chem. Int. Ed.* **2007**, *46*, 3979–3982.
- [106] H. Braunschweig
Lithiumboryl – a Synthon for a Nucleophilic Boryl Anion
Angew. Chem. **2007**, *119*, 1990–1992; *Angew. Chem. Int. Ed.* **2007**, *46*, 1946–1948.
- [105] B. Blank, H. Braunschweig, M. Colling-Hendelkens, C. Kollann, K. Radacki, D. Rais, K. Uttinger, G. R. Whittell
Aminoborylene Complexes of Group 6 Elements and Iron: A Synthetic, Structural and Quantum Chemical Study
Chem. Eur. J. **2007**, *13*, 4770–4781.
- [104] H. Braunschweig, T. Kupfer, K. Radacki
Selective Dimetallation of [Mn(η^5 -C₅H₅) $(\eta^6$ -C₆H₆)]: Crystal Structure and Conversion to Strained [n]Metalloarenophanes (n = 1, 2)
Angew. Chem. **2007**, *119*, 1655–1658; *Angew. Chem. Int. Ed.* **2007**, *46*, 1630–1633.

2006

- [103] G. D'Andola, H. Braunschweig, T. Welton
Organoborates as potential anions for novel ionic liquids
Proc. Electrochem. Soc. **2006**, 2004–2024 (Molten Salts XIV), 556–563.
- [102] H. Braunschweig, T. Kupfer
Bis(η^6 -trimethylsilylbenzene)chromium(0)
Acta Cryst. **2006**, *E62*, m3502–m3503.
- [101] H. Braunschweig, M. Kraft, F. Seeler
N,N-Diethylpyrrolidinium-pentachloro-tetrahydrofuranozirconate
Acta Cryst. **2006**, *E62*, m3267–m3268.
- [100] H. Braunschweig
Functionalization of unsaturated organic substrates by borylene transfer
ABSTR PAP, 232nd ACS National Meeting, INOR-414, 10 SEP, **2006**.
- [99] H. Braunschweig, T. Kupfer, M. Lutz, K. Radacki, F. Seeler, R. Sigritz
Metal Mediated Diboration of Alkynes with [2]Borametallocenophanes under Stoichiometric, Homogeneous, and Heterogeneous Conditions
Angew. Chem. **2006**, *118*, 8217–8220; *Angew. Chem. Int. Ed.* **2006**, *45*, 8048–8051 (VIP).
- [98] G. Bringmann, H. Scharl, K. Maksimenka, K. Radacki, H. Braunschweig, P. Wich, C. Schmuck
Atropodiastereoselective Cleavage of Configurationally Unstable Biaryl Lactones with Amino Acid Esters
Eur. J. Org. Chem. **2006**, *19*, 4349–4361.
- [97] H. Braunschweig, K. Radacki, D. Rais, K. Uttinger
Synthesis and Reactivity of Semi-bridging Borylene Complexes
Organometallics **2006**, *25*, 5159–5164.
- [96] H. Braunschweig, K. Radacki, F. Seeler, G. R. Whittell
Synthesis and Reactivity of Dihaloboryl Complexes
Organometallics **2006**, *25*, 4605–4610.
- [95] H. Braunschweig, M. Lutz, K. Radacki, A. Schaumlöffel, F. Seeler, C. Unkelbach
Facile Syntheses of Trovacene, the Formation of [n]Boratrovacenophanes (n = 1, 2) and Reactivity Towards [Pt(PEt₃)₄]
Organometallics **2006**, *25*, 4433–4435.

- [94] H. Braunschweig, M. Kraft, S. Schwarz, F. Seeler, S. Stellwag
Preparation and Structural Characterization of Transition Metal Complexes Featuring the Cymantrenyl(bromo)boryl Ligand
Inorg. Chem. **2006**, *45*, 5275–5277.
- [93] H. Braunschweig, C. Burschka, M. Burzler, S. Metz, K. Radacki
Molecular Structure and Cluster Formation Reaction of a *tert*-Butylborylene Complex
Angew. Chem. **2006**, *118*, 4458–4461; *Angew. Chem. Int. Ed.* **2006**, *45*, 4352–4355.
- [92] H. Braunschweig, C. Kollann, D. Rais
Transition Metal Complexes of Boron – New Insights and Novel Coordination Modes
Angew. Chem. **2006**, *118*, 5380–5400; *Angew. Chem. Int. Ed.* **2006**, *45*, 5254–5274.(VIP).
- [91] H. Braunschweig, M. Kraft, K. Radacki, S. Stellwag
Piperidino-Substituted [1]Borametallocenophanes. Synthesis, Reactivity, and Structure
Z. Naturforsch. **2006**, *61b*, 509–516.
- [90] D. P. Zlotos, C. Traenkle, A. Abdelrahman, D. Guendisch, K. Radacki, H. Braunschweig, K. Mohr
6H, 13H-Pyrazino[1,2-a;4,5-a']diindole analogs: Probing the pharmacophore for allosteric ligands of muscarinic M2 receptors
Bioorganic & Medicinal Chemistry Letters, **2006**, *16*(6), 1481–1485.
- [89] H. Braunschweig, M. Forster, K. Radacki
Borylene Transfer under Thermal Conditions: Synthesis and Structure of a Tetrarhodium Bisborylene Complex
Angew. Chem. **2006**, *118*, 2187–2189; *Angew. Chem. Int. Ed.* **2006**, *45*, 2132–2134.
- [88] H. Braunschweig, H. Bera, D. Götz, K. Radacki
Phosphine-Substituted Diborane(4)yl Complexes of Tungsten
Z. Naturforsch. **2006**, *61b*, 29–32.
- [87] H. Braunschweig, K. Radacki, D. Rais, F. Seeler
Boron in the Coordination Sphere of Three Transition-Metal Atoms: Syntheses and Structures of Metalloborylenes Stabilized by a Transition-Metal Base
Angew. Chem. **2006**, *118*, 1087–1090; *Angew. Chem. Int. Ed.* **2006**, *45*, 1066–1069 .
- [86] H. Braunschweig, F. M. Breitling, K. Kraft, M. Kraft, F. Seeler, S. Stellwag, K. Radacki
Substituted Ferrocenylboranes – Potential Ligand Precursors for ansa-Metallocenes, Constrained Geometry Complexes and ansa-Diamido Complexes
Z. anorg. allg. Chem. **2006**, *632*, 269–278.
- [85] H. Braunschweig, K. Radacki, D. Rais, K. Uttinger
Synthesis and Characterization of Palladium and Platinum Iminoboryl Complexes
Angew. Chem. **2006**, *118*, 169–172; *Angew. Chem. Int. Ed.* **2006**, *45*, 162–165.
- [84] H. Braunschweig, F. M. Breitling
Constrained geometry complexes – Synthesis and applications
Coord. Chem. Rev. **2006**, *250*, 2691–2720.
- [83] H. Braunschweig, F. M. Breitling, C. Burschka, F. Seeler
Derivatisation of boryl substituted titanium half-sandwich complexes – Molecular structures of $[\text{Ti}\{(\eta^5\text{-C}_5\text{H}_4)\text{B}(\text{NiPr}_2)\text{N}(\text{H})\text{tBu}\}\text{Cl}_2(\text{NMe}_2)]$ and $[\{\text{TiCl}_2(\mu-\{\text{OB}(\text{NHMe}_2)-\eta^5\text{-C}_5\text{H}_4\})\}_2-\mu\text{-O}]$
J. Organomet. Chem. **2006**, *691*, 702–710.
- [82] H. Braunschweig, G. D'Andola, T. Welton, A. J. P. White
Synthesis and Structure of Novel Organocycloborates
Chem. Eur. J. **2006**, *12*, 600–606.
- [81] A. Bartole-Scott, H. Braunschweig, T. Kupfer, M. Lutz, I. Manners, T. Nguyen, K. Radacki, F. Seeler
Synthesis of *ansa*-[*n*]Silacyclopentadienyl-Cycloheptatrienyl-Chromium Complexes (*n* = 1, 2): Novel Precursors for Polymers Bearing Chromium in the Backbone
Chem. Eur. J. **2006**, *12*, 1266–1273.

2005

- [80] H. Braunschweig, D. Rais
Boron – A Meeting Point
Angew. Chem. **2005**, 117, 8036–8038; *Angew. Chem. Int. Ed.* **2005**, 44, 7826–7828.
- [79] H. Braunschweig, T. Herbst, D. Rais, F. Seeler
Synthesis of Borirenes by Photochemical Borylene-Transfer from $[(OC)_5M=BN(SiMe_3)_2]$ ($M = Cr, Mo$) to Alkynes
Angew. Chem. **2005**, 117, 7627–7629; *Angew. Chem. Int. Ed.* **2005**, 44, 7461–7463 (VIP).
- [78] H. Braunschweig, F. M. Breitling, K. Radacki, F. Seeler
Synthesis and molecular structure of boron-bridged constrained geometry complexes of zirconium and hafnium
J. Organomet. Chem. **2005**, 690, 5000–5005.
- [77] H. Braunschweig, F. M. Breitling, F. Seeler
rac-(tert-Butylamino)(diisopropylamino)(9-fluorenyl)borane
Acta Cryst. **2005**, E61, 2303–2304.
- [76] H. Braunschweig, F. M. Breitling, F. Seeler
rac-(Diisopropylamino)(1-indenyl)(isopropylamino)borane
Acta Cryst. **2005**, E61, 2343–2344.
- [75] H. Braunschweig, K. Radacki, D. Rais, D. Scheschkewitz
A T-Shaped Platinum(II) Boryl Complex as the Precursor to a Platinum compound with a Base-Stabilized Terminal Borylene Ligand
Angew. Chem. **2005**, 117, 5796–5799; *Angew. Chem. Int. Ed.* **2005**, 44, 5651–5654 (VIP & cover page).
- [74] H. Braunschweig, G. Whittell
Boron as a Bridging Ligand
Chem. Eur. J. **2005**, 11, 6128–6133.
- [73] H. Braunschweig, M. Kraft, K. Radacki, S. Stellwag
[1]Borometallocenophanes as Catalysts for Ethene Polymerization
Z. anorg. allg. Chem. **2005**, 631, 2858–2866.
- [72] H. Braunschweig, D. Rais
Reactivity of Terminal Transition Metal Borylene Complexes
Heteroatom Chem. **2005**, 16, 566–571.
- [71] H. Braunschweig, M. Lutz, K. Radacki
Synthesis of ansa-[2]Boracyclopentadienyl-cycloheptatrienyl-chromium and its Reaction to the First ansa-Platina-Bis(boryl)-Complex by Oxidative Addition of the Boron-Boron Bond
Angew. Chem. **2005**, 117, 5792–5796; *Angew. Chem. Int. Ed.* **2005**, 44, 5647–5651.
- [70] H. Braunschweig, M. Kraft, K. Radacki, S. Stellwag
[1]Borahafnocenophanes: Synthesis, Structure and Catalytic Activity
Eur. J. Inorg. Chem. **2005**, 2754–2759.
- [69] H. Braunschweig, D. Rais, K. Uttinger
Terminal Borylene Complexes Stabilized by a Transition-Metal Base
Angew. Chem. **2005**, 117, 3829–3832; *Angew. Chem. Int. Ed.* **2005**, 44, 3763–3766.
- [68] H. Braunschweig, C. Burschka, G. K. B. Clentsmith, T. Kupfer, K. Radacki
Ferrocenylalanes: Solid State and Solution Structures of some Novel Aluminium-Bridged ansa-Ferrocenes
Inorg. Chem. **2005**, 44, 4906–4908.
- [67] H. Braunschweig, M. Groß, M. Kraft, M. O. Kristen, D. Leusser
[2]Borometallocenophanes of Zr and Hf: Synthesis, Structure and Polymerization Activity
J. Am. Chem. Soc. **2005**, 127, 3282–3283.
- [66] H. Braunschweig, K. Radacki, D. Scheschkewitz, G. R. Whittell
Boron as a Bridging Ligand
Angew. Chem. **2005**, 117, 1685–1688; *Angew. Chem. Int. Ed.* **2005**, 44, 1658–1660 (VIP).
- [65] H. Braunschweig, K. Radacki, D. Rais, F. Seeler, K. Uttinger
Heterodinuclear Bridged Borylene Complexes
J. Am. Chem. Soc. **2005**, 127, 1386–1387.

- [64] H. Braunschweig, K. Radacki, D. Rais, G. R. Whittell
A Boryl Bridged Complex: An Unusual Coordination Mode of the BR₂ Ligand
Angew. Chem. **2005**, *117*, 1217–1219; *Angew. Chem. Int. Ed.* **2005**, *44*, 1192–1194 (VIP).

2004

- [63] H. Braunschweig, G. D'Andola, T. Welton
Synthesis and characterization of novel organoborates *via* Grignards reagents *ABSTR PAP AM CHEM S* 228th ACS Meeting, INOR-541, 22 AUG 04, **2004**.
- [62] H. Braunschweig, K. Radacki, D. Rais, F. Seeler
Preparation and Structural Characterization of Transition Metal Complexes Featuring the Ferrocenyl(bromo)boryl ligand
Organometallics **2004**, *23*, 5545–5549.
- [61] H. Braunschweig, K. Radacki, F. Seeler, G. R. Whittell
Synthesis of [(\eta⁵-C₅H₅)Fe(CO)₂BCl₂·NC₅H₄-4-Me]: from [(\eta⁵-C₅H₅)Fe(CO)₂BCl₂]: First Preparation of a Lewis Acid–Base Adduct from a Boryl Complex
Organometallics **2004**, *23*, 4178–4180.
- [60] H. Braunschweig, G. D'Andola, T. Welton, A. J. P. White
Novel organocycloborates *via* Grignards reagents
Chem. Commun. **2004**, 1738–1739.
- [59] H. Braunschweig, M. Homberger, C. Hu, X. Zheng, E. Gullo, G. Clentsmith, M. Lutz
Synthesis and Structure of [Cr{(\eta⁶-C₆H₅)₂B{NtBu(SiMe₃)}}] and [Cr{(\eta⁶-C₆H₅)₂(BNMe₂)₂}]: The First Boron-Bridged Metallocarenophanes
Organometallics **2004**, *23*, 1968–1970.
- [58] H. Braunschweig, F. M. Breitling, U. Englert, C. von Koblinski, A. J. P. White, D. J. Williams
Synthesis and Structure of Boron-Bridged Constrained Geometry Complexes of Titanium
J. Chem. Soc., Dalton Trans. **2004**, 938–943.
- [57] H. Braunschweig
Borylenes as Ligands to Transition Metals
Adv. Organomet. Chem. **2004**, *51*, 163–192.
- [56] H. Braunschweig, M. Colling, C. Hu, K. Radacki
Reactivity of the bridged borylene complex [μ -BCl{(\eta⁵-C₅H₄Me)Mn(CO)₂}]₂
Inorg. Chim. Acta **2004**, *357*, 1822–1828.

2003

- [55] H. Braunschweig, F. M. Breitling, E. Gullo, M. Kraft
The Chemistry of [1]Borametallocenophanes and Related Compounds
J. Organomet. Chem. **2003**, *680*, 31–42.
- [54] H. Braunschweig, F. M. Breitling, M. Homberger, C. von Koblinski, A. J. P. White, D. J. Williams
Cyclopentadienyl(diamino)boranes and their Derivatives – a Family of Versatile Ligand Precursors for Constrained Geometry Complexes
Z. anorg. allg. Chem. **2003**, *629*, 2244–2250.
- [53] H. Braunschweig, M. Colling, C. Hu
Unprecedented Reactivity of the Bridged Borylene Complex
[μ -BCl{(\eta⁵-C₅H₄Me)Mn(CO)₂}]₂] toward Pyridine
Inorg. Chem. **2003**, *42*, 941–943.
- [52] H. Braunschweig, M. Kraft, M. Homberger, F. M. Breitling, A. J. B. White, U. Englert, P. B. Hitchcock
Synthesis and structures of [Yb{(\eta⁵-(C₅H₄)B(N*i*Pr₂)NH^tBu}₂{N(SiMe₃)₂}]₂ and [Zr{(\eta⁵-(C₉H₆)B(N(SiMe₃)₂)(C₉H₇)Cl₂}]₂
Appl. Organometal. Chem. **2003**, *17*, 421–428.

- [51] H. Braunschweig, K. W. Klinkhammer, M. Koster, K. Radacki
Formation, Structure and Reactivity of Boryloxycarbyne Complexes of Group 6 Metals
Chem. Eur. J. **2003**, 9, 1303–1309.
- [50] H. Braunschweig, C. von Koblinski, F. M. Breitling, K. Radacki, C. Hu, L. Wesemann, T. Marx, I. Pantenburg
Synthesis and structure of $[\text{Zr}\{\eta^5\text{-C}_9\text{H}_6\text{B}(\text{N}^i\text{Pr}_2)\text{NPh}\}_2]$: a new complex with a boron-bridged amido-indenyl ligand
Inorg. Chim. Acta **2003**, 350, 467–474.
- [49] H. Braunschweig, M. Colling
The Chemistry of Borylene Complexes
Eur. J. Inorg. Chem. **2003**, 393–403.
- [48] H. Braunschweig, M. Colling, C. Hu, K. Radacki
 $[(\eta^5\text{-C}_5\text{H}_5)(\text{OC})_3\text{V}=\text{B}=\text{N}(\text{SiMe}_3)_2]$: A Half-Sandwich Complex with a Terminal Borylene Ligand
Angew. Chem. **2003**, 115, 215–218; *Angew. Chem. Int. Ed.* **2003**, 42, 205–208.

2002–2000

- [47] H. Braunschweig, M. Colling, C. Kollann, U. Englert
The first silyl- and germyl boryl complexes: synthesis from novel dichloro(silyl)- and dichloro(germyl)boranes, structure and reactivity
J. Chem. Soc., Dalton Trans. **2002**, 2289–2296.
- [46] H. Braunschweig, M. Koster
Synthesis and Reactivity of Diborane(4)yl Complexes
Z. Naturforsch. **2002**, 57b, 483–487.
- [45] H. Braunschweig, M. Colling, C. Hu, K. Radacki
From Classical to Nonclassical Metal-Boron Bonds: Synthesis of a Novel Metallaborane
Angew. Chem. **2002**, 114, 1415–1417; *Angew. Chem. Int. Ed.* **2002**, 41, 1359–1361.
- [44] Berenbaum, H. Braunschweig, R. Dirk, U. Englert, J. C. Green, F. Jäkle, I. Manners
Synthesis, electronic structure, and novel reactivity of strained, boron-bridged [1]ferrocenophanes
ABSTR PAP AM CHEM S 221: 358-INOR Part 1 APR 1, **2001**.
- [43] H. Braunschweig, M. Colling, C. Kollann, K. Merz, K. Radacki
 $[(\text{OC})_5\text{Cr}=\text{BSi}(\text{SiMe}_3)_3]$: A Terminal Borylene Complex with an Electronically Unsaturated Boron Atom
Angew. Chem. **2001**, 113, 4327–4329; *Angew. Chem. Int. Ed.* **2001**, 40, 4198–4200.
- [42] H. Braunschweig, M. Colling, C. Kollann, H.-G. Stammler, B. Neumann
Terminal Borylene Complexes as a Source for the Borylene B–N(SiMe₃)₂: Alternative Synthesis and Structure of $[(\text{OC})_5\text{Cr}=\text{B}=\text{N}(\text{SiMe}_3)_2]$
Angew. Chem. **2001**, 113, 2359–2361; *Angew. Chem. Int. Ed.* **2001**, 40, 2298–2300.
- [41] H. Braunschweig in *Inorganic Chemistry Highlights* (Eds.: G. Meyer, D. Naumann, L. Wesemann),
Wiley-VCH, Weinheim, New York, **2001**, 213–218.
- [40] H. Braunschweig, M. Colling
Transition metal complexes of boron – synthesis, structure and reactivity
Coord. Chem. Rev. **2001**, 223, 1–51.
- [39] H. Braunschweig, C. von Koblinski, M. Neugebauer, U. Englert, X. Zheng
Synthesis and structure of aminobis(η^1 -cyclopentadienyl)boranes and related compounds
J. Organomet. Chem. **2001**, 619, 305–312.
- [38] H. Braunschweig, C. Von Koblinski, M. O. Kristen
Metallocenkomplexes suitable as olefin polymerization catalysts
EP 1140955, **2001**, 27 pp.
- [37] H. Braunschweig, M. Colling
The Chemistry of Bridged Borylene Complexes
J. Organomet. Chem. **2000**, 614–615, 18–26.

- [36] H. Braunschweig, C. von Koblinski, U. Englert
Synthesis and structure of the first boron bridged constrained geometry complexes
Chem. Commun. **2000**, 1049–1050.
- [35] H. Braunschweig in *Contemporary Boron Chemistry* (Eds.: M. G. Davidson, A. K. Hughes, T. B. Marder, K. Wade), The Royal Society of Chemistry, Cambridge, **2000**, S. 371–378.
- [34] H. Braunschweig, R. Dirk, U. Englert, A. Berenbaum, J. C. Green, A. J. Lough, I. Manners
Synthesis, Electronic Structure and Novel Reactivity of Strained Boron-Bridged
[1]Ferrocenophanes
J. Am. Chem. Soc. **2000**, 122, 5765–5774.

1999–1990

- [33] H. Braunschweig, C. von Koblinski, M. Mamuti, U. Englert, R. Wang
Synthesis and Structure of [1]Borametallocenophanes of Ti, Zr and Hf
Eur. J. Inorg. Chem. **1999**, 1899–1904.
- [32] H. Braunschweig, M. Koster
Diborane(4)yl and bridged borylene complexes from 1,2-dipyrrolidino- and 1,2-dipiperidinodiborane(4) derivatives,
J. Organomet. Chem. **1999**, 588, 231–234.
- [31] H. Braunschweig, C. Kollann
Reaktionen von $[(\eta^5\text{-C}_5\text{R}_5)_2\text{WH}_2]$ mit Boranen
Z. Naturforsch. **1999**, 54b, 839–842.
- [30] H. Braunschweig, C. Kollann, M. Koster, U. Englert, M. Müller
Synthesis and Structure of Trinuclear Boryloxycarbyne Complexes
Eur. J. Inorg. Chem. **1999**, 2277–2281.
- [29] H. Braunschweig, M. Koster, K. W. Klinkhammer
Unique Rearrangement of an Oxycarbyne Complex: Synthesis and Structure of Novel
Diborane(4)yl Complexes
Angew. Chem. **1999**, 111, 2368–2370, *Angew. Chem. Int. Ed.* **1999**, 38, 2229–2231.
- [28] H. Braunschweig, C. Kollann, K. W. Klinkhammer
Boryl and Bridged Borylene Complexes of Iron and Ruthenium
Eur. J. Inorg. Chem. **1999**, 1523–1529.
- [27] H. Braunschweig, M. Koster, R. Wang
Diborane(4)yl Complexes of Molybdenum and Ruthenium
Inorg. Chem. **1999**, 38, 415–416.
- [26] H. Braunschweig, C. von Koblinski, R. Wang
Synthesis and Structure of the First [1]Boratitanocenophanes
Eur. J. Inorg. Chem. **1999**, 69–73.
- [25] H. Braunschweig, C. Kollann, U. Englert
Synthesis and Structure of the First Terminal Borylene Complexes
Angew. Chem. **1998**, 110, 3355–3357, *Angew. Chem. Int. Ed.* **1998**, 37, 3179–3180.
- [24] H. Braunschweig, C. Kollann, U. Englert
Boryl- and Bridging Boryleneiron Complexes from Aminodichloroboranes
Eur. J. Inorg. Chem. **1998**, 465–468.
- [23] H. Braunschweig
Transition Metal Complexes of Boron
Angew. Chem. **1998**, 110, 1882–1898, *Angew. Chem. Int. Ed.* **1998**, 37, 1786–1801.
- [22] H. Braunschweig, C. Kollann, M. Müller
Synthesis and Structure of the First η^1 -Coordinated Borazine Complexes,
Eur. J. Inorg. Chem. **1998**, 291–293.
- [21] D. P. Gates, R. Rulkens, R. Dirk, P. Nguyen, J. K. Pudelski, R. Resendes, H. Braunschweig, I. Manners
Highly Strained Metallocenophanes: Synthesis and Ring-Opening of Sulfur-, Selenium- and
Boron- Bridged [1]Ferrocenophanes
Phosphorus, Sulfur, and Silicon, and Related Elements, **1997**, 124 & 125, 561–565.

- [20] H. Braunschweig in *Advances in Boron Chemistry* (Hrsg.: W. Siebert), The Royal Society of Chemistry, Cambridge, **1997**, S. 381–384.
- [19] H. Braunschweig, R. Dirk, M. Müller, P. Nguyen, R. Resendes, D. P. Gates, I. Manners Incorporation of a First Row Element into the Bridge of a Strained Metallacenophane: Synthesis of a Boron-Bridged [1]Ferrocenophane *Angew. Chem.* **1997**, *109*, 2433–2435; *Angew. Chem. Int. Ed.* **1997**, *36*, 2338–2340.
- [18] H. Braunschweig, M. Müller New Borylene Complexes of the Type $[\mu\text{-BX}\{(\eta^5\text{-C}_5\text{H}_4\text{Me})\text{Mn}(\text{CO})_2\}_2]$; Substitution Reactions at the Metal Coordinated Borylene Moiety *Chem. Ber.* **1997**, *130*, 1295–1298.
- [17] H. Braunschweig, R. Dirk, U. Englert Synthesis and Reactions of $\{\text{o-}\{[\text{Bis(dimethylamino)boryl}]\text{methyl}\}\text{phenyl}\}\text{diphenylphosphane}$ *Z. anorg. allg. Chem.* **1997**, *623*, 1093–1097.
- [16] H. Braunschweig, C. Drost, P. B. Hitchcock, M. F. Lappert, L. J.-M. Pierssens A Dinuclear Tin(II) Amide, a *meta*-Stannylaminocyclophane and its Orthostannation Derivative, a Dimeric Trinuclear Tin(II) Cluster *Angew. Chem.* **1997**, *109*, 285–288; *Angew. Chem. Int. Ed.* **1997**, *36*, 261–263.
- [15] H. Braunschweig, B. Ganter Convenient synthesis of $\text{K}[(\text{C}_5\text{H}_4\text{Me})\text{MnH}(\text{CO})_2]$ and reactions with $\text{Cl}_2\text{B}[\text{N}(\text{SiMe}_3)_2]$ and $\text{B}_2\text{R}_2\text{Cl}_2$ ($\text{R} = \text{Me}_2\text{N}, \text{Me}_3\text{C}$) *J. Organomet. Chem.* **1997**, *545*, 163–167.
- [14] H. Braunschweig, R. Dirk, B. Ganter $\{[\text{Bis(dimethylamino)boryl}]\text{methyl}\}\text{dimethylphosphane}$ as ligand in transition metal complexes *J. Organomet. Chem.* **1997**, *545*, 257–266.
- [13] H. Braunschweig, T. Wagner Zur Umsetzung von Bis(η^5 -cyclopentadienyl)dihydridowolfram mit Halogenboranen *Z. Naturforsch.* **1996**, *51b*, 1618–1620.
- [12] H. Braunschweig, J. Müller, B. Ganter Molecular Structure of $[\text{CpFe}(\text{CO})_2]_2\text{AlAr}$ ($\text{Ar} = 2\text{-}[(\text{Dimethylamino})\text{-methyl}]\text{phenyl}$): An Alanediyi Complex with Two Fe-Al Bonds *Inorg. Chem.* **1996**, *35*, 7443–7444.2
- [11] H. Braunschweig, B. Ganter, M. Koster, T. Wagner Diboran(4)yl Groups as Ligands to Transition Metals *Chem. Ber.* **1996**, *129*, 1099–1101.
- [10] H. Braunschweig, B. Gerhus, P. B. Hitchcock, M. F. Lappert Synthesis and Characterisation of *N,N'*-Disubstituted 1,2-phenylenebis-(amido)tin(II) Compounds *Z. anorg. allg. Chem.* **1995**, *621*, 1922–1928.
- [9] H. Braunschweig, T. Wagner Synthesis and Structure of the First Transition Metal Borylene Complexes *Angew. Chem.* **1995**, *107*, 904–905, *Angew. Chem. Int. Ed.* **1995**, *34*, 825–826.
- [8] H. Braunschweig, T. Wagner Zur Addition von Alkyldichlorboranen an Bis(η^5 -cyclopentadienyl)dihydrido-wolfram *Chem. Ber.* **1994**, *127*, 1613–1614.
- [7] H. Braunschweig, P. B. Hitchcock, M. F. Lappert, L. J.-M. Pierssens Synthese, Strukturen und Reaktionen zweier Bis(diaminostannylene) und eines Bis(diaminogermylens) mit zentralem C_6 -Ring *Angew. Chem.* **1994**, *106*, 1243–1245; *Angew. Chem. Int. Ed.* **1994**, *33*, 1156–1158.
- [6] H. Braunschweig, T. P. Spaniol, P. Paetzold Zur Bildung eines $\text{Fe}_2(\text{CO})_6$ -Komplexes mit (Boryloxy)allyl-Brücke *Chem. Ber.* **1994**, *127*, 91–92.
- [5] H. Braunschweig, P. Paetzold, R. Boese Weitere Reaktionen der Iminoborane $\text{RB}=\text{NR}'$ mit Neopentylidentalant-Komplexen *Chem. Ber.* **1993**, *126*, 1571–1577.
- [4] H. Braunschweig, P. Paetzold, T. P. Spaniol Weitere Reaktionen des Amino(imino)borans $\text{Me}_3\text{Si}(t\text{Bu})\text{N}-\text{B}=\text{N}t\text{Bu}$ und des

- Alkylden(amino)borans $\text{Me}_3\text{Si}(t\text{Bu})\text{N}=\text{B}=\text{CH}t\text{Bu}$
Chem. Ber. **1993**, 126, 1565–1569.
- [3] H. Braunschweig, R. W. Chorley, P. B. Hitchcock, M. F. Lappert
The First Monomeric Prochiral Tin(II) Complexes $\text{Sn}[\text{N}(\text{SiMe}_3)_2]\text{X}$
[$\text{X} = \text{C}_6\text{H}_2\text{Bu}_2$ -2,6-Me-4, **1** or $\text{NCMe}_2(\text{CH}_2)_3\text{CMe}_2$, **2**]; the X-Ray Structure of **1** and Oxidative
Addition Reactions of **2**
J. Chem. Soc., Chem. Commun. **1992**, 1311–1313.
- [2] H. Braunschweig, I. Manners, P. Paetzold
Die Reaktion von (Butadien)zirconocen mit Iminoboranen
Z. Naturforsch. **1990**, 45b, 1453–1454.
- [1] H. Braunschweig, P. Paetzold, R. Boese
[2 + 2]-Cycloaddition von Iminoboranen mit einem Neopentylidendantal-Komplex
Chem. Ber. **1990**, 123; 485–487.

Book reviews

- [1] H. Braunschweig
Chemie in unserer Zeit, **1998**, 32, XIII.
- [2] H. Braunschweig
Chemie in unserer Zeit, **2000**, 34, 264.
- [3] H. Braunschweig
Nachrichten aus der Chemie, **2000**, 379.
- [4] H. Braunschweig
Nachrichten aus der Chemie, **2000**, 535.

Further publications

Between 03.2001 and 12.2006 125 contributions to „Notizen“ in *Nachrichten aus der Chemie*.