
PUBLIKATIONEN

ÜBERSICHTSARTIKEL, HIGHLIGHTS, BUCHBEITRÄGE

"An Anionic Aluminium Nucleophile"

A. Hinz*, F. Breher*, *Angew. Chem. Int. Ed.* **2018**, in press (DOI: 10.1002/anie.201804930); *Angew. Chem.* **2018**, in press (DOI: 10.1002/ange.201804930)

"Multidentate Silyl Ligands in Transition Metal Chemistry"

M. Simon and F. Breher*, *Dalton Trans.* **2017**, 46, 7976 – 7997 ([link](#)).

★ This review was highlighted with the Back Cover of issue 25

"Die Ästhetik der [1.1.1]Propellane"

T. Augenstein, F. Breher*, *Nachr. Chem.* **2014**, 62, 1169 – 1174 ([link](#)).

F. Breher, *"Kap. 15, Organometallverbindungen"* in *"Anorganische Chemie – Prinzipien von Struktur und Reaktivität"*

James E. Huheey, Ellen A. Keiter, R. L. Keiter; Hrsg. v. R. Steudel, 5. Auflage, DeGruyter, Berlin, **2014** ([link](#)).

S. González-Gallardo, F. Breher*, *"Chapter 1.18, Main Group Biradicaloids"* in *"Comprehensive Inorganic Chemistry II"*

(Editors-in-Chief: Jan Reedijk and Ken Poeppelmeier, Section Editor: Tristram Chivers), Elsevier, **2013**, vol. 1, pp. 413 – 455 ([link](#)).

F. Breher, *"Kap. 15, Organometallverbindungen"* in *"Anorganische Chemie – Prinzipien von Struktur und Reaktivität"*

James E. Huheey, Ellen A. Keiter, R. L. Keiter; Hrsg. v. R. Steudel, 4. Auflage, DeGruyter, Berlin, **2012** ([link](#)).

"New Perspectives for 'Non-Classical' Molecules: Heavy [1.1.1]propellanes of Group 14"

D. Nied and F. Breher*, *Chem. Soc. Rev.* **2011**, 40, 3455 – 3466 ([link](#)).

"Multidentate Ligand Systems Featuring Dual Functionality"

I. Kuzu, I. Kruppenacher, J. Meyer, F. Armbruster, and F. Breher*, *Dalton Trans.* **2008**, 5836 – 5865 ([link](#)).

★ This invited review was featured on the inside front cover of issue 43.

"Stretching bonds in main group element compounds – Borderlines between biradicals and closed-shell species"

F. Breher, *Coord. Chem. Rev.* **2007**, 251, 1007 – 1043 ([link](#)).

"To Boldly Pass the Metal-Metal Quadruple Bond"

U. Radius*, F. Breher*, *Angew. Chem.* **2006**, 118, 3072 – 3077; *Angew. Chem. Int. Ed.* **2006**, 45, 3006 – 3010 ([link](#)).

ZEITSCHRIFTENARTIKEL

"Stable Salts of the Hexacarbonyl Chromium(I) Cation and its Pentacarbonyl-Nitrosyl Chromium(I) Analogue"

J. Bohnenberger, W. Feuerstein, D. Himmel, F. Breher*, I. Krossing*, submitted on 29th May 2018.

"Rhodium(I) Complexes of N-Aryl-Substituted Mono- and Bis(amidates) Derived From Their Alkali Metal Salts"

E. Moos, S. González-Gallardo, M. Radius, F. Breher*, *Eur. J. Inorg. Chem.* **2018**, in press (DOI: <https://doi.org/10.1002/ejic.201800349>).

★ This paper will be featured with a "Cover Feature" in one of the upcoming issues.

"Synthesis, Characterisation and Reactions of truly Cationic Ni(I) Phosphine Complexes"

M. M. Schwab, D. Himmel, S. Kacprzak, V. Radtke, D. Kratzert, P. Weis, M. Wernet, A. Peter, Z. Yassine, D. Schmitz, E.-W. Scheidt, W. Scherer, S. Weber, W. Feuerstein, F. Breher, A. Higelin and I. Krossing*, *Chem. Eur. J.* **2018**, 24, 918 – 927 ([link](#)).

★ This paper was selected as "Hot Paper".

"Solution and Solid-State Study on the Spin-Crossover $[Fe^{II}(R-bik)_3](BF_4)_2$ complexes [$R = Me, Et, Vinyl$]"

S. De, S. Tewary, D. Garnier, Y. Li, G. Gontard, L. Lisnard, A. Flambard, F. Breher, M.-L. Boillot, G. Rajaraman*, and R. Lescouëzec*, *Eur. J. Inorg. Chem.* **2018**, 414 – 428 ([link](#)).

"Metal Complexes of a Redox-Active [1]Phosphaferrocenophane: Structures, Electrochemistry and Redox-Induced Catalysis"

A. Feyrer, M. K. Armbruster, K. Fink, and F. Breher*, *Chem. Eur. J.* **2017**, 23, 7402 – 7408 ([link](#)).

★ This communication was highlighted with a Frontispiece.

"Palladium Complexes of Ferrocene-Based Phosphine Ligands as Redox-Switchable Catalyst in Buchwald-Hartwig Cross-Coupling Reactions"

A. Feyrer and F. Breher*, *Inorg. Chem. Front.* **2017**, 4, 1125 – 1134 ([link](#)).

★ Part of the themed collection "Switchable Catalysis and Related Reactions"

"A Redox-Switchable Germylene and its Ligating Properties in Selected Transition Metal Complexes"

F. Walz, E. Moos, D. Garnier, R. Köppe, C. E. Anson, and F. Breher*, *Chem. Eur. J.* **2017**, 23, 1173 – 1186 ([link](#)).

"Transition-Metal-free Synthesis and Electronic Properties of Symmetric Triphenylimine Molecules"

A. Meli, B. Ebenhoch, A. Bihlmeier, A. Feyrer, E. Deck, F. Breher, M. Nieger, A. Colsman*, S. Bräse*, *RSC Adv.* (submitted).

"A combined experimental and quantum chemical study on thallium(I) tris(pyrazolyl)methanide"

I. Kuzu*, A. Baldes, F. Weigend, and F. Breher*, *Polyhedron* **2017**, 125, 74 – 79 ([link](#)).

★ Special Issue "Tridentate and Tetridentate Tripodal Ligands"

"A Dinuclear Gold(I) Bis(Carbene) Complex Based on a Ditopic Cyclic (Aryl)(Amino)-Carbene Framework"

E. Deck, K. Reiter, W. Klopper*, and F. Breher*, *Z. Anorg. Allg. Chem.* **2016**, 642, 1320 – 1328 ([link](#)).

★ Special Issue "N-heterocyclic Carbenes"

"The Neutral Complex $K@[Fe^{II}(Tp)(CN)_3]_4[Co^{III}(pzTp)]_3[Co^{II}(pzTp)]$: a Soluble Model of Photomagnetic Prussian Blue Analogues"

D. Garnier, J. R. Jiménez, Y. Li, J. von Bardeleben, Y. Journaux, T. Augenstein, E. Moos, M. T. Gamer, F. Breher*, and R. Lescouëzec*, *Chem. Sci.* **2016**, 7, 4825 – 4831 ([link](#)).

★ Featured on the front-cover of issue no. 8

"Molecular spin crossover in slow motion: Light-induced spin-state transitions in trigonal prismatic iron(II) complexes"

P. Stock, E. Deck, S. Hohnstein, J. Korzekwa, K. Meyer, F. W. Heinemann, F. Breher*, and G. Hörner*, *Inorg. Chem.* **2016**, 55, 5254 – 5265 ([link](#)).

"Aluminium Diphosphamethanides: Hidden Frustrated Lewis Pairs"

S. Styra, M. Radius, E. Moos, A. Bihlmeier, F. Breher*, *Chem. Eur. J.* **2016**, 22, 9598 – 9512 ([link](#)).

"A Boron-fluorinated Tris(pyrazolyl)borate Ligand ($^F Tp^$) and its Mono- and Dinuclear Copper Complexes $[Cu(^F Tp^*)_2]$ and $[Cu_2(^F Tp^*)_2]$: Synthesis, Structures and DFT Calculations"*

T. Augenstein, F. Dorner, K. Reiter, H. E. Wagner, D. Garnier, W. Klopper, and F. Breher*, *Chem. Eur. J.* **2016**, 22, 7935 – 7943 ([link](#)).

"Differential Many-Body Cooperativity in Electronic Spectra of Oligonuclear Transition-Metal Complexes"

J. Chmela, M. E. Harding, D. Matioszek, C. E. Anson, F. Breher*, and W. Klopper*, *Chem. Phys. Chem.* **2016**, 17, 37 – 45 ([link](#)).

★ Selected as "VIP"-Paper and featured on the back-cover of issue no. 1

"Crystalline Cyclic (Alkyl)(amino)carbene-tetrafluoropyridyl Radical"

S. Styra, M. Melaimi, C. E. Moore, A. L. Rheingold, T. Augenstein, F. Breher* and G. Bertrand*, *Chem. Eur. J.* **2015**, 21, 8441 – 8446 ([link](#)).

★ Selected as "Hot Paper"

"Time-resolved IR spectroscopy of a trinuclear palladium complex in solution"

M. Zimmer, F. Rupp, P. Singer, F. Walz, F. Breher,* W. Klopper,* R. Diller* and M. Gerhards*, *Phys. Chem. Chem. Phys.* **2015**, *17*, 14138 – 14144 ([link](#)).

"Tris(3,5-dimethylpyrazolyl)methane-Based Heterobimetallic Complexes that Contain Zn- and Cd-Transition-Metal Bonds: Synthesis, Structures, and Quantum Chemical Calculations"

J. Meyer, S. González-Gallardo, S. Hohnstein, D. Garnier, M. K. Armbruster, K. Fink, W. Klopper and F. Breher*, *Chem. Eur. J.* **2015**, *21*, 2905 – 2914 ([link](#)).

"Diaryldichalcogenide radical cations"

O. Mallow, M. A. Khanfar, M. Malischewski, P. Finke, M. Hesse, E. Lork, T. Augenstein, F. Breher, J. R. Harmer, N. V. Vasilieva, A. Zibarev, A. S. Bogomyakov, K. Seppelt and J. Beckmann*, *Chem. Sci.* **2015**, *6*, 497 – 504 ([link](#)).

★ This paper belongs to the Top 25 most downloaded *Chemical Science* articles October-December 2014

"From MgBr via single-electron transfer (SET) to a paramagnetic Mg(II) compound and back to Mg(I): [MgBr(L¹)]₂ and [K(thf)₃]₂[Mg₂(L¹)₂], L¹ = RN=C(Me)C(Me)=NR, R = 2,6-diisopropylphenyl"

T. Kruczynski, P. Henke, T. Augenstein, N. Arleth, F. Breher* and H. Schnöckel*, *Chem. Commun.* **2014**, *50*, 15677 – 15680 ([link](#)).

★ This article was featured on the inside front cover of issue 99

"In-depth exploration of the photophysics of a trinuclear palladium complex"

Y. Schmitt, K. Chevalier, F. Rupp, M. Becherer, A. Grün, A. M. Rijs, F. Walz, F. Breher*, R. Diller*, M. Gerhards*, W. Klopper*, *Phys. Chem. Chem. Phys.* **2014**, *16*, 8332 – 8338 ([link](#)).

"Coinage Metal Complexes of Tris(pyrazolyl)methanide-based Redox-Active Metalloligands"

S. González-Gallardo, I. Kuzu, P. Oña-Burgos, T. Wolfer, C. Wang, K. W. Klinkhammer, W. Klopper, S. Bräse and F. Breher*, *Organometallics* **2014**, *33*, 941 – 951 ([link](#)).

"Mono- versus Dinuclear Gold-Catalyzed Intermolecular Hydroamidation"

J. M. Serrano-Becerra, A. F. G. Maier, S. González-Gallardo, E. Moos, C. Kaub, M. Gaffga, G. Niedner-Schatteburg, P. W. Roesky, F. Breher, J. Paradies*, *Eur. J. Org. Chem.* **2014**, 4515 – 4522 ([link](#)).

"Synthesis and Structures of 1,3-Bis(organochalcogenyl) Distannatrisilabicyclo-[1.1.1]pentanes"

E. Moos, T. Augenstein, D. Garnier, and F. Breher*, *Can. J. Chem.* **2014**, 92, 574 – 579 ([link](#)).

★ This article is part of the [GTL 2013](#) special issue

"A metallacyclic alkyl-amido carbene complex (MCAAC)"

I. Trapp, S. González-Gallardo, S. Hohnstein, D. Garnier, P. Oña-Burgos, and F. Breher*, *Dalton Trans.* **2014**, 43, 4313 – 4319 ([link](#)).

★ This article is part of the Dalton Transactions themed issue, [New Talent: Europe](#)

"Homoleptic tetrakis(silyl) complexes of Pd⁰ and Pt⁰ featuring metal-centred heterocubane structures. First evidences for the existence of the corresponding mononuclear Pd^I and Pt^I complexes"

F. Armbruster, T. Augenstein, P. Oña-Burgos, F. Breher*, *Chem. Eur. J.* **2013**, 19, 17899 – 17906 ([link](#)).

★ This article was featured on the front-cover of issue 52.

★ See also spotlight on [ChemistryViews](#)

"Exploring the Solution Behavior of f-Element Coordination Compounds: A Case Study on some Trivalent Rare Earth and Plutonium Complexes"

M. W. Löble, P. Oña-Burgos, I. Fernández, C. Apostolidis, A. Morgenstern, O. Walter, F. Bruchertseifer, P. Kaden, T. Vitova, J. Rothe, K. Dardenne, N. L. Banik, A. Geist, M. A. Denecke, and F. Breher*, *Chem. Sci.* **2013**, 4, 3717 – 3724 ([link](#)).

"Heterobimetallic Cuprates Consisting of a Redox-Switchable, Silicon-Based Metalloligand: Synthesis, Structures, and Electronic Properties"

S. Styra, S. González-Gallardo, F. Armbruster, P. Oña-Burgos, E. Moos, M. Vonderach, P. Weis, O. Hampe, A. Grün, Y. Schmitt, M. Gerhards, F. Menges, M. Gaffga, G. Niedner-Schatteburg, and F. Breher*, *Chem. Eur. J.* **2013**, 19, 8436 – 8446 ([link](#)).

★ This article has been highlighted with a frontispiece in issue no. 26.

"Development of a metal ion-mediated base pair for electron transfer in DNA"

T. Ehrenschwender, W. Schmucker, C. Wellner, T. Augenstein, P. Carl, J. Harmer, F. Breher*, H.-A. Wagenknecht*, *Chem. Eur. J.* **2013**, 19, 12547 – 12552 ([link](#)).

"On the Solution Behaviour of Benzyl lithium(-)-Sparteine Adducts and Related Lithium Organyls - A Case Study on Applying ^7Li , $^{15}\text{N}\{^1\text{H}\}$ HMOC and Further NMR Methods, Including Some Investigation into Asymmetric Synthesis"

M. Casimiro, P. Oña-Burgos, J Meyer, S. Styra, I. Kuzu, F. Breher*, and I. Fernández*, *Chem. Eur. J.* **2013**, 19, 691 – 701 ([link](#)).

"Heteroleptic [n]Chromoarenophanes: ansa Complexes Derived from $[\text{Cr}(\eta^5\text{-C}_5\text{H}_5)(\eta^6\text{-C}_6\text{H}_6)]^n$ "

H. Braunschweig*, F. Breher*, S. Capper, K. Dück, M. Fuß, J. O. C. Jimenez-Halla, I. Krummenacher, T. Kupfer, D. Nied, and K. Radacki, *Chem. Eur. J.* **2013**, 19, 270 – 281 ([link](#)).

★ This article has been selected as Very Important Paper (VIP).

"Investigations on the Steric Accessibility of the Carbanionic Moiety in Zwitterionic Magnesium Tris(pyrazolyl)methanide Complexes. Synthesis and Characterisation of Bi- and Trimetallic Complexes"

J. Meyer, I. Kuzu, S. González-Gallardo, F. Breher*, *Z. Anorg. Allg. Chem.* **2013**, 639, 301 – 307 ([link](#)).

"Alkynyl-functionalised and linked bicyclo[1.1.1]pentanes of group 14"

T. Augenstein, P. Oña-Burgos, D. Nied, and F. Breher*, *Chem. Commun.* **2012**, 48, 6803 – 6805 ([link](#)).

★ This article is part of the *ChemComm* 'Frontiers in Molecular Main Group Chemistry' web themed issue and has been spotlighted in *Nachr. Chem.* **2013**, 61, 219 – 234.

"Palladium-containing polymers via a combination of RAFT and triazole chemistry"

C. Lang, C. Kiefer, E. Lejeune, A. S. Goldmann, F. Breher*, P. W. Roesky*, and C. Barner-Kowollik*, *Polymer Chem.* **2012**, 3, 2413 – 2420 ([link](#)).

"[2.2]Paracyclophane derived bisphosphines for the activation of hydrogen by FLPs: application in domino hydrosilylation/hydrogenation of enones"

L. Greb, P. Oña-Burgos, A. Kubas, F. C. Falk, F. Breher, K. Fink, and J. Paradies*, *Dalton Trans* **2012**, 41, 9056 – 9060 ([link](#)).

"¹H,⁸⁹Y HMQC and Further NMR Spectroscopic and X-ray Diffraction Investigations on Yttrium-Containing Complexes Exhibiting Various Nuclearities"

M. W. Löble, M. Casimiro, D. T. Thielemann, P. Oña-Burgos, I. Fernández*, P. W. Roesky*, and F. Breher*, *Chem. Eur. J.* **2012**, *18*, 5325 – 5334 ([link](#)).

"Sodium and Potassium Salts of Mono- and Dianionic α -Iminopyridines"

H. P. Nayek, N. Arleth, I. Trapp, M. Löble, P. Oña-Burgos, M. Kuzdrowska, Y. Lan, A. K. Powell, F. Breher*, and P. W. Roesky*, *Chem. Eur. J.* **2011**, *17*, 10814 – 10819 ([link](#)).

★ This article has been spotlighted in *Nachr. Chem.* **2012**, *60*, 216 – 250.

"Tuning the Gap: Electronic Properties and Radical-Type Reactivities of 2 Heteronuclear [1.1.1]Propellanes of Heavier Group 14 Elements"

D. Nied, P. Oña-Burgos, W. Klopfer, and F. Breher*, *Organometallics* **2011**, *30*, 1419 – 1428 ([link](#)).

"Copper complexes of tripodal σ -N-donor ligands: A structural, EPR spectroscopic and electrochemical study"

I. Trapp, M. Löble, J. Meyer, and F. Breher*, *Inorg. Chim. Acta* **2011**, *374*, 373 – 384 ([link](#)).

"Experimental charge density distribution of non-coordinating sp³ carbanions in [Mg{(pz*)₃C}₂]"

D. Kratzert, D. Leusser, D. Stern, J. Meyer, F. Breher, and D. Stalke*, *Chem. Commun.* **2011**, *47*, 2931 – 2933 ([link](#)).

"A triangulo palladium cluster consisting of μ^3 -capping silyl ligands"

F. Armbruster, J. Meyer, A. Baldes, P. Oña-Burgos, I. Fernández, F. Breher*, *Chem. Commun.* **2011**, *47*, 221 – 223 ([link](#)).

★ This article is part of the '[Emerging Investigators' themed issue](#) for *Chem. Commun.*

"Transfer of a Disilyl Moiety to Aromatic Substrates and Lateral Functional Group Transformation in Aryl Disilenes"

J. Jeck, I. Bejan, A. J. P. White, D. Nied, F. Breher*, and D. Scheschkewitz*, *J. Am. Chem. Soc.* **2010**, *132*, 17306 – 17315 ([link](#)).

"Synthesis of a Pentasilapropellane. Exploring the Nature of a Stretched Silicon-Silicon Bond in a Nonclassical Molecule"

D. Nied, R. Köppe, W. Klopfer*, H. Schnöckel, and F. Breher*, *J. Am. Chem. Soc.* **2010**, 132, 10264 – 10265 ([link](#)).

★ This article has been spotlighted in Nature Chemistry, ("[Main Group Chemistry: Silicon Propellane](#)")

★ See also *Nachr. Chem.* **2010**, 58, 997 and *Nachr. Chem.* **2011**, 59, 221.

"Radical-Type Reactivity of Metalla[1.1.1]propellanes of Group 14: Syntheses, Structures, and Reduction Chemistry of Transition Metal-Terminated Bicyclo[1.1.1]pentastannanes"

D. Nied, E. Matern, H. Berberich, M. Neumaier, and F. Breher*, *Organometallics* **2010**, 29, 6028 – 6037 ([link](#)).

"Reduction Chemistry of Ferrocenylborole"

H. Braunschweig*, F. Breher*, C.-W. Chiu, D. Gamon, D. Nied, K. Radacki, *Angew. Chem.* **2010**, 122, 9159 – 9162; *Angew. Chem. Int. Ed.* **2010**, 49, 8975 – 8978 ([link](#)).

"Syntheses and Structural Diversity of Group 2 and Group 12 Tris(pyrazolyl)methane and Zwitterionic Tris(pyrazolyl)methanide Compounds"

M. G. Cushion, J. Meyer, A. Heath, A. D. Schwarz, I. Fernández, F. Breher*, P. Mountford*, *Organometallics* **2010**, 29, 1174 – 1190 ([link](#)).

"Syntheses, structures, and reactivity of poly(pyrazolyl)silanes, -disilanes, and the ambidentate $x^1\text{Si}/x^3\text{N}$ -coordinating tris(3,5-dimethylpyrazolyl)silanide ligand $[\text{Si}(3,5\text{-Me}_2\text{pz})_3]^-$ (MeTpds^-)"

F. Armbruster, I. Fernández, and F. Breher*, *Dalton Trans.* **2009**, 5612 – 5626 ([link](#)).

★ This contribution was featured on the inside front cover of Issue 29 and designated as "Hot Paper".

" ^7Li , ^{15}N Heteronuclear Multiple Quantum Shift Correlation – A Fast and Reliable 2D NMR method on natural abundant nuclei"

I. Fernández*, P. O. Burgos, F. Armbruster, I. Krummenacher, F. Breher*, *Chem. Commun.* **2009**, 2586 – 2588 ([link](#)).

"Neutral and Cationic Main Group Element Cages of Germanium(II) with Pyrazolyl Ligands - Solid State Structures, DFT Calculations and Advanced Solution NMR Investigations"

I. Krummenacher, I. Fernández, H. Rüegger, F. Weigend, and F. Breher*, *Dalton Trans.* **2009**, 5335 - 5347 ([link](#)).

"Syntheses, Structures, and Electronic Properties of Zwitterionic Iron(II) and Cobalt(II) Complexes $[M(\text{MeTpmd})_2]$ Featuring Ambidentate Tris(pyrazolyl)-methanide Ligands $[C(3,5\text{-Me}_2\text{pz})_3]^- (\text{MeTpmd})$ "

I. Kuzu, I. Krummenacher, I. J. Hewitt, Y. Lan, V. Mereacre, A. K. Powell, P. Höfer, J. Harmer, F. Breher*, *Chem. Eur. J.* **2009**, 15, 4350 - 4365 ([link](#)).

"Pentagerma[1.1.1]propellane - A Combined Experimental and Quantum Chemical Study on the Nature of the Interactions Between the Bridgehead Atoms"

D. Nied, W. Klopffer*, F. Breher*, *Angew. Chem.* **2009**, 121, 1439 - 1444; *Angew. Chem. Int. Ed.* **2009**, 48, 1411 - 1416 ([link](#)).

★ This article has been spotlighted in *Science* **2009**, 323, 563 ("Bonded or Not?").

★ See also *Nachr. Chem.* **2009**, 57, 373 and *Nachr. Chem.* **2010**, 58, 239.

"Syntheses, Crystal Structures and Redox Properties of Mixed-Sandwich Complexes of Ruthenium(II) Consisting of Cyclopentadienyl and Tris(pyrazolyl)methane Ligands"

I. Kuzu, D. Nied, F. Breher*, *Eur. J. Inorg. Chem.* **2009**, 872 - 879 ([link](#)).

"Momentaufnahmen bei der Bildung einer Al-Al- σ -Bindung aus $\{AlR_2\}$ -Einheiten - experimentelle und quantenchemische Befunde"

P. Henke, T. Pankewitz, W. Klopffer*, F. Breher, H. Schnöckel*, *Angew. Chem.* **2009**, 121, 8285 - 8290; *Angew. Chem. Int. Ed.* **2009**, 48, 8140 - 8245 ([link](#)).

★ This contribution was featured on the inside front cover of issue 43.

★ See also *Nachr. Chem.* **2009**, 57, 1170.

"Silver-Ethene Complexes $[Ag(\eta^2\text{-C}_2\text{H}_4)_n][Al(OR^F)_4]$ with $n=1, 2, 3$ (R^F = Fluorine-Substituted Group)"

A. Reisinger, N. Trapp, C. Knapp, D. Himmel, F. Breher, H. Rüegger, I. Krossing*, *Chem. Eur. J.* **2009**, 15, 9505 - 9520 ([link](#)).

"Syntheses, Reactivity and DFT studies of Group 2 and 12 Metal Complexes of Tris(pyrazolyl)methanides Featuring "Free" Pyramidal Carbanions"

H. R. Bigmore, J. Meyer, I. Krummenacher, H. Rügger, E. Clot, P. Mountford*, and F. Breher*, *Chem. Eur. J.* **2008**, *14*, 5918 – 5934 ([link](#)).

"Synthesis, Crystal Structure, EPR and DFT studies and Redox Properties of [2]Tetramethyl-disilacobaltocenophane"

H. Braunschweig*, F. Breher*, M. Kaupp*, M. Groß, T. Kupfer, D. Nied, K. Radacki, S. Schinzel, *Organometallics* **2008**, *27*, 6427 – 6433 ([link](#)).

"Cationic Main Group Element Cages of Germanium(II) and Tin(II) Consisting of 3,5-Di(t-butyl) Substituted Pyrazolyl Ligands in the Bridging Position"

I. Krummenacher, C. Oschwald, H. Rügger, F. Breher*, *Z. Anorg. Allg. Chem.* **2007**, *633*, 2354 – 2361 ([link](#)).

"Two Different Products Observed in the Reaction of a Bis(germylene) with Molybdenum Hydride [Mo(H)Cp(CO)₃]"

I. Krummenacher, F. Breher*, *Z. Anorg. Allg. Chem.* **2006**, *632*, 965 – 971 ([link](#)).

"Coinage metal complexes of tris(pyrazolyl)methanide [C(3,5-Me₂pz)₃]: κ^3 -coordination vs. backbone functionalisation"

I. Krummenacher, H. Rügger, F. Breher*, *Dalton Trans.* **2006**, 1073 – 1081 ([link](#)).

"Distannenes Turned Inside Out: Bis(stannylenes) with an Unusual Structural Motif"

F. Breher*, H. Rügger, *Angew. Chem.* **2005**, *117*, 477 – 481; *Angew. Chem. Int. Ed.* **2005**, *44*, 473 – 477 ([link](#)).

"A Monomeric Organolithium Compound Containing a Free Pyramidal Carbanion in Solution and in the Solid State"

F. Breher*, J. Grunenberg, S. C. Lawrence, P. Mountford, H. Rügger, *Angew. Chem.* **2004**, *116*, 2575 – 2578; *Angew. Chem. Int. Ed.* **2004**, *43*, 2521 – 2524 ([link](#)).

★ This article has been spotlighted in the category "Heart Cut" on chemistry.org

ZEITSCHRIFTENARTIKEL & REVIEWS (POSTDOC, PHD)

"Hydrogallation of Trimethylsilylethynylbenzenes: Generation of Potential Di- and Tripodal Chelating Lewis Acids"

W. Uhl, H. Bock, F. Breher, M. Claesener, S. Haddadpour, B. Jasper, A. Hepp, *Organometallics* **2007**, 26, 2363 – 2369.

"High Yield Ruthenium-Catalysed Friedel-Crafts-Type Allylation Reactions Using Dicationic Ru(IV) Catalysts"

I. Fernández, R. Hermatschweiler, F. Breher, P. S. Pregosin, L. F. Veiros, M. J. Calhorda, *Angew. Chem.* **2006**, 118, 6535 – 6540; *Angew. Chem. Int. Ed.* **2006**, 45, 6386 – 6391.

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