

List of Publications: L. H. Gade (January 2019)

I) Books:

- 1) L. H. Gade, *Koordinationschemie*, Wiley-VCH Weinheim, **1998**, ISBN 3-527-29503-8.
- 2) *Dendrimer Catalysis* (Ed. L. H. Gade), *Top. Organomet. Chem. Vol. 20*, Springer, Heidelberg, New York, **2006**.
- 3) *Molecular Catalysts: Structure and Functional Design* (Eds. L. H. Gade, P. Hofmann), Wiley-VCH, Weinheim, **2014**, ISBN: 978-3-527-33521-3.

II) Papers:

- 1) L. H. Gade, B. F. G. Johnson, J. Lewis, M. McPartlin, H. R. Powell, *J. Chem. Soc., Chem. Commun.* **1990**, 110.
"Isolation and X-Ray Structure Determination of the Cluster Dianion $[\text{Os}_{20}\text{HgC}_2(\text{CO})_{48}]^{2-}$, and the Identification of the Cluster Previously reported with this Stoichiometry as $[\text{Os}_{18}\text{Hg}_3\text{C}_2(\text{CO})_{42}]^{2-}$."
- 2) E. Charalambous, L. H. Gade, B. F. G. Johnson, J. Lewis, M. McPartlin, H. R. Powell, *J. Chem. Soc., Chem. Commun.* **1990**, 688.
"Synthesis and X-Ray Structure Analysis of the Largest Binary Osmium Carbonyl Cluster: $[\text{Os}_{17}(\text{CO})_{36}]^{2-}$."
- 3) E. Charalambous, L. H. Gade, B. F. G. Johnson, T. Kotch, A. J. Lees, J. Lewis, M. McPartlin, *Angew. Chem.* **1990**, 102, 1172; *Angew. Chem. Int. Ed. Engl.* **1990**, 29, 1137.
" $[(\text{Ph}_3\text{P})_2\text{N}]_2[\text{Os}_{18}\text{Hg}_2\text{C}_2(\text{CO})_{42}]$, a Photochemically Generated High-Nuclearity Cluster Which Reversibly Incorporates Metallic Mercury into its Metal Core."
- 4) A. J. Amoroso, L. H. Gade, B. F. G. Johnson, J. Lewis, P. R. Raithby, W. T. Wong, *Angew. Chem.* **1991**, 103, 102; *Angew. Chem. Int. Ed. Engl.* **1991**, 30, 107.
" $[\text{nBu}_4\text{P}]_2[\text{Os}_{20}(\text{CO})_{40}]$, a Thermolytically Generated High-Nuclearity Cluster with a Cubic-Close-Packed Metal Core."
- 5) A. Bashall, L. H. Gade, J. Lewis, B. F. G. Johnson, G. J. McIntyre, M. McPartlin, *Angew. Chem.* **1991**, 103, 1186; *Angew. Chem. Int. Ed. Engl.* **1991**, 30, 1164.
"Direct Location of the Hydrido Ligands in the Dianion $[\text{H}_4\text{Os}_{10}(\text{CO})_{24}]^{2-}$ by a Neutron Diffraction Study of its $[(\text{Ph}_3\text{P})_2\text{N}]^+$ Salt at 20 K."

- 6) B. F. G. Johnson, L. H. Gade, J. Lewis, W. T. Wong, *Mater. Chem. Phys.* **1991**, *29*, 85.
"High Nuclearity Clusters and Beyond."
- 7) L. H. Gade, B. F. G. Johnson, J. Lewis, M. McPartlin, T. Kotch, A. J. Lees, *J. Am. Chem. Soc.* **1991**, *113*, 8698.
"Photochemical Core Manipulation in High Nuclearity Os-Hg Clusters"
- 8) L. H. Gade, B. F. G. Johnson, J. Lewis, M. McPartlin, H. R. Powell, *J. Chem. Soc., Dalton Trans.* **1992**, 921.
"Systematic Build-up of High-nuclearity Osmium-Mercury Clusters."
- 9) L. H. Gade, B. F. G. Johnson, J. Lewis, *J. Chem. Soc., Dalton Trans.* **1992**, 933.
"Dynamic Behaviour of High-nuclearity Osmium-Mercury Clusters."
- 10) P. J. Bailey, L. H. Gade, B. F. G. Johnson, J. Lewis, *Chem. Ber.* **1992**, *125*, 2019.
"Hydride and Carbonyl Fluxionality in $[\text{HM}_{10}\text{C}(\text{CO})_{24}]^-$ (M = Ru, Os)."
- 11) L. H. Gade, B. F. G. Johnson, J. Lewis, G. Conole, M. McPartlin, *J. Chem. Soc., Dalton Trans.* **1992**, 3247.
"The Redox-Chemical Core Manipulation of $[\text{Os}_{18}\text{Hg}_3\text{C}_2(\text{CO})_{42}]^{2-}$; Synthesis and X-Ray Structure Analysis of the Tetra-anionic Cluster $[\text{Os}_{18}\text{Hg}_2\text{C}_2(\text{CO})_{42}]^{4-}$ as its $[(\text{Ph}_3\text{P})_2\text{N}]^+$ Salt."
- 12) L. H. Gade, *Angew. Chem.* **1993**, *105*, 25; *Angew. Chem. Int. Ed. Engl.* **1993**, *32*, 24.
"Mercury, a Structural Building Block and Source of Localized Reactivity in Extended Metal-Metal Bonded Systems."
- 13) L. H. Gade, N. Mahr, *J. Chem. Soc., Dalton Trans.* **1993**, 489.
"The Metallation of Multifunctional Secondary Amines: The Structural Characterization of the Tripodal Lithium Amides $[\text{H}_3\text{CC}\{\text{CH}_2\text{N}(\text{Li})\text{R}\}_3]_2$."
- 14) L. H. Gade, C. Becker, J. W. Lauher, *Inorg. Chem.* **1993**, *32*, 2308.
"Trisilylmethane as a Structural Backbone in Multifunctional Lithium Amides: The Syntheses and Structures of $\text{HC}\{(\text{CH}_3)_2\text{SiN}(\text{Li})t\text{Bu}\}_3$ and its Solvate $\text{HC}\{(\text{CH}_3)_2\text{SiN}(\text{Li})t\text{Bu}\}_3 \cdot 2 \text{ THF}$."

- 15) S. Friedrich, L. H. Gade, A. J. Edwards, M. McPartlin, *Chem. Ber.*, **1993**, *126*, 1797.
"Structures, Dynamics and Reactivity of Tripodal Amido-Ligands Coordinated to Ti(IV)-Centres."
- 16) S. Friedrich, L. H. Gade, A. J. Edwards, M. McPartlin, *J. Chem. Soc., Dalton Trans.* **1993**, 2861.
"A New Class of Five-co-ordinate Titanium Complexes containing a Polyfunctional Amido-Ligand. Characterisation of $[\text{TiX}_2\{\text{CH}(\text{2-C}_5\text{H}_4\text{N})(\text{CH}_2\text{NSiMe}_3)_2\}]$ (X = Cl or Br) and $[\text{Ti}\{\text{CH}(\text{2-C}_5\text{H}_4\text{N})(\text{CH}_2\text{NSiMe}_3)_2\}_2]$."
- 17) L. H. Gade, B. F. G. Johnson, J. Lewis, M. McPartlin, H. R. Powell, P. R. Raithby, W.-T. Wong, *J. Chem. Soc., Dalton Trans.* **1994**, 521.
"Synthesis and Structural Characterisation of the Osmium Cluster-dianions $[\text{Os}_{17}(\text{CO})_{36}]^{2-}$ and $[\text{Os}_{20}(\text{CO})_{40}]^{2-}$."
- 18) S. Friedrich, H. Memmler, L. H. Gade, W.-S. Li, M. McPartlin, *Angew. Chem.* **1994**, *106*, 705; *Angew. Chem. Int. Ed. Engl.* **1994**, *33*, 676.
"Titanium Complexes with Tripodal Amidoligands: Building Blocks of Stable Bimetallic Coordination Compounds Containing Highly Polar Metal-Metal Bonds."
- 19) H. Memmler, L. H. Gade, J. W. Lauher, *Inorg. Chem.* **1994**, *33*, 3064.
"Amino-functionalized Trisilylmethanes: Precursors for a New Class of Tripodal Amido Ligands in Transition Metal Complexes."
- 20) K. W. Hellmann, P. Steinert, L. H. Gade, *Inorg. Chem.* **1994**, *33*, 3859
" $[\{\text{MeN}(\text{CH}_2\text{CH}_2\text{NMe}_2)_2\text{Li}\}_2\text{Cl}][\text{HC}\{\text{SiMe}_2\text{N}(\text{4-CH}_3\text{C}_6\text{H}_4)\}_3\text{Sn}]$, a "Solvent-Separated" Tripodal Triamidostannate and a $[\text{Li}_2\text{Cl}]^+$ -Cation Revisited."
- 21) M. Schubart, L. O'Dwyer, L. H. Gade, W.-S. Li, M. McPartlin, *Inorg. Chem.* **1994**, *33*, 3893
"Synthesis and Structures of N-Alkylated Azatitanatranes."
- 22) K. W. Hellmann, L. H. Gade, W.-S. Li, M. McPartlin, *Inorg. Chem.* **1994**, *33*, 5974.
"Structures and Dynamics of the Tripodamide Ligand Transfer Reagents $[\text{MeC}\{\text{CH}_2\text{N}(\text{Li})\text{SiMe}_3\}_3\{\text{L}\}_3]$, (L = thf, hmpta)."

- 23) K. W. Hellmann, S. Friedrich, L. H. Gade, W.-S. Li, M. McPartlin, *Chem. Ber.* **1995**, *128*, 29.
"Tripodal Triaminostannates as Building Blocks in the Generation of Sn-M (M = Fe, Ru) Bonded Heterobimetallics."
- 24) L. H. Gade, *Angew. Chem.* **1995**, *107*, 595; *Angew. Chem. Int. Ed. Engl.* **1995**, *34*, 547.
"Direct Spectroscopic Evidence for a Hitherto Elusive Zwitterionic State."
- 25) M. Schubart, B. Findeis, L. H. Gade, W.-S. Li, M. McPartlin, *Chem. Ber.* **1995**, *128*, 329.
"Tripodal Amides Containing a Totally Silicon-Based Ligand Framework."
- 26) L. H. Gade, B. F. G. Johnson, J. Lewis, *Croat. Chem. Acta* **1995**, *68*, 683.
"The Detection and Localization of Hydrido Ligands in High Nuclearity Osmium and Ruthenium Carbonyl Clusters: A Critical Survey."
- 27) H. Memmler, K. Walsh, L. H. Gade, J. W. Lauher, *Inorg. Chem.* **1995**, *34*, 4062.
"Tripodal Amidoligands Containing an "Active" Ligand Periphery."
- 28) K. W. Hellmann, L. H. Gade, O. Gevert, P. Steinert, J. W. Lauher, *Inorg. Chem.* **1995**, *34*, 4069.
"Tripodal Triamido-Stannates and -Plumbates."
- 29) S. Friedrich, L. H. Gade, I. Scowen, M. McPartlin, *Organometallics* **1995**, *14*, 5344.
"Using Zirconium Half-Sandwich Complexes as Building Blocks in a New Class of Zr-M Heterobimetallics Containing Unsupported Zr-M Bonds (M = Fe, Ru, Co)."
- 30) B. Findeis, M. Schubart, L. H. Gade, I. Scowen, M. McPartlin, *J. Chem. Soc., Dalton Trans.* **1996**, 125.
"Tripod-Amido Titanium and Zirconium Complexes Containing a Trisilylsilane-derived Ligand Framework. "
- 31) B. Findeis, M. Schubart, C. Platzek, L. H. Gade, I. Scowen, M. McPartlin, *Chem. Commun.* **1996**, 219.
"A "Passe-Partout" for the Stabilization of Highly Polar Unsupported M-M' Bonds (M = Ti, Zr, Hf; M' = Fe, Ru) and α -Addition of the Metal Nucleophile-Electrophile-Pairs to an Isocyanide."

- 32) L. H. Gade, B. F. G. Johnson, J. Lewis, M. McPartlin, I. Scowen, *J. Chem. Soc., Dalton Trans.* **1996**, 597.
"Removing the Second Mercury Atom from $[\text{Os}_{18}\text{Hg}_3\text{C}_2(\text{CO})_{42}]^{2-}$: Synthesis of $[\text{Os}_{18}\text{HgC}_2(\text{CO})_{42}]^{4-}$ and X-ray Crystal Structure of $[\text{HOs}_{18}\text{HgC}_2(\text{CO})_{42}]^{3-}$."
- 33) S. Friedrich, H. Memmler, L. H. Gade, W.-S. Li, I. Scowen, M. McPartlin, C. E. Housecroft, *Inorg. Chem.* **1996**, *35*, 2433.
"Stabilizing Heterobimetallic Complexes Containing Unsupported Ti-M Bonds (M = Fe, Ru, Co): The Nature of Ti-M Donor-Acceptor Bonds."
- 34) M. Contel, K. W. Hellmann, L. H. Gade, I. Scowen, M. McPartlin, M. Laguna, *Inorg. Chem.* **1996**, *35*, 3713.
"Triamidogerma- and Stanna-aurates(I): First Structural Characterization of an Ge-Au-Ge Unit."
- 35) H. Memmler, U. Kauper, L. H. Gade, I. Scowen, M. McPartlin, *Chem. Commun.* **1996**, 1751.
"Insertion of X=C=Y Heteroallenes into Zr-M Bonds (M = Fe, Ru)."
- 36) S. Friedrich, L. H. Gade, I. J. Scowen, M. McPartlin, *Angew. Chem.* **1996**, *108*, 1440; *Angew. Chem. Int. Ed. Engl.* **1996**, *35*, 1338.
"A Chelate-Amidozirconium Fragment as Building Block for Trinuclear ZrM_2 -Heterobimetallic Complexes (M = Fe, Ru, Co) Containing Unsupported Zr-M Bonds."
- 37) H. Memmler, U. Kauper, L. H. Gade, D. Stalke, J. W. Lauher, *Organometallics* **1996**, *15*, 3637.
A Chiral Triamidostannate: Its Structure and Properties as a Nucleophile."
- 38) S. Friedrich, L. H. Gade, W.-S. Li, M. McPartlin, *Chem. Ber.* **1996**, *129*, 1287.
"Controlled Hydrolysis of Tripodal Titanium Amido Halides: The Influence of the Ligand Periphery upon the Basicity of the Amido-NFunctions ."
- 39) L. H. Gade, *Angew. Chem.* **1996**, *108*, 2225; *Angew. Chem. Int. Ed. Engl.* **1996**, *35*, 2089.
"'Strangelove' in Cluster Chemistry: A New Class of Open Shell Transition Metal Clusters."

- 40) K. W. Hellmann, L. H. Gade, I. J. Scowen, M. McPartlin, *Chem. Commun.* **1996**, 2515.
"Aggregation of Tripodal Thallium(I) Amides Through Weak Tl(I)···Tl(I) Interactions."
- 41) K. W. Hellmann, L. H. Gade, A. Steiner, D. Stalke, F. Möller, *Angew. Chem.* **1997**, *109*, 99; *Angew. Chem. Int. Ed. Engl.* **1997**, *36*, 160.
"Redox-Disproportionation in Tripodal Indium and Thallium Amides: First Characterization of Mixed-Valence M(I)/M(II)-Compounds (M = In, Tl)."
- 42) B. Findeis, L. H. Gade, I. J. Scowen, M. McPartlin, *Inorg. Chem.* **1997**, *36*, 960.
"Ligand Exchange and Molecular Aggregation of an Ag-Sn Heterobimetallic Complex: First Structural Characterization of an Ag-Sn Bond."
- 43) K. W. Hellmann, L. H. Gade, R. Fleischer, D. Stalke, *Chem. Commun.* **1997**, 527.
"A Supramolecular Motif in the Solid State Structure of a Difunctional Tl(I) Amide Defined by Weak Tl···Tl Attractions."
- 44) A. Schätzlein, M. Schubart, B. Findeis, L. H. Gade, C. Fickert, R. Pikel, W. Kiefer, *J. Mol. Struct.* **1997**, *408/409*, 373.
"Raman Spectroscopy of Non-Bridged, Dinuclear Complexes".
- 45) B. Findeis, M. Contel, L. H. Gade, M. Laguna, M. C. Gimeno, I. J. Scowen, M. McPartlin, *Inorg. Chem.* **1997**, *36*, 2386.
"Triamidostannagold Complexes in Different Oxidation States. First Structural Characterization of a Sn-Au-Au-Sn Linear Chain."
- 46) L. H. Gade, *Angew. Chem.* **1997**, *109*, 1219; *Angew. Chem. Int. Ed. Engl.* **1997**, *36*, 1171.
"Hyt was of Gold, and Shon so Bryghte.....": Luminescent Gold(I)-Compounds."
- 47) K. W. Hellmann, L. H. Gade, *Verfahrenstechnik* **1997**, *31(5)*, 70.
"Trennoperationen vereinfachen und beschleunigen: Schlenkrohrzentrifuge als Hilfsmittel in der metallorganischen Chemie."
- 48) K. W. Hellmann, L. H. Gade, R. Fleischer, T. Kottke, *Chem. Eur. J.* **1997**, *3*, 1801.
"Aggregation, Re-aggregation and Degradation of a Trifunctional Thallium(I) Amide Induced by Weak Tl^I···Tl^I-Attraction."

- 49) A. J. Blake, P. E. Collier, L. H. Gade, M. McPartlin, P. Mountford, M. Schubart and I. J. Scowen, *Chem. Commun.* **1997**, 1555.
"Highly Selective Trimerisation of MeNC by a novel Titanium Imido Complex Containing a Tridentate Dianionic Amido Ligand."
- 50) S. Friedrich, M. Schubart, L. H. Gade, I. J. Scowen, A. J. Edwards, M. McPartlin, *Chem. Ber.*, **1997**, *130*, 1751.
"Titanium Complexes Containing a Novel Dianionic Trifunctional Amido Ligand."
- 51) M. Schubart, B. Findeis, H. Memmler, L. H. Gade in *Organosilicon Chemistry III: From Molecules to Materials* (Eds.: N. Auner, J. Weis), Wiley-VCH, Weinheim, **1997**, p. 172.
"Functionalized Trisilylmethanes and Trisilylsilanes as Precursors of a New Class of tripodal Amido Ligands."
- 52) L. H. Gade, S. Friedrich, H. Memmler, U. Kauper, M. Schubart, B. Findeis, A. Schneider, S. Fabre, D. J. M. Trösch in *Selective Reactions of Metal-Activated Molecules* (Eds.: H. Werner, P. Schreier), Vieweg, Braunschweig, **1998**, p. 229.
"Organic Transformations with Early-Late Heterobimetallics: Synergism and Selectivity."
- 53) K. W. Hellmann, C. H. Galka, L. H. Gade, A. Steiner, D. S. Wright, T. Kottke, D. Stalke, *Chem. Commun.* **1998**, 549.
"Aggregation of lithium and mixed thallium(I)-lithium amides through η^3 - and η^6 - π -arene interactions in the solid."
- 54) A. Schneider, L. H. Gade, M. Breuning, G. Bringmann, I. J. Scowen, M. McPartlin, *Organometallics*, **1998**, *17*, 1643.
"Cooperative Reactivity of Unsupported Early-Late Heterobimetallics: Ring Opening and Subsequent Decarbonylation of Biaryllactones."
- 55) K. W. Hellmann, C. H. Galka, I. Rüdener, L. H. Gade, I. J. Scowen, M. McPartlin, *Angew. Chem.* **1998**, *110*, 2053; *Angew. Chem. Int. Ed.* **1998**, *37*, 1948.
"Metal-Ligand vs. Metal-Metal Redox Chemistry: Thallium(I)-induced Synthesis of 1,3,8,10-Tetraaminoperylen Derivatives."
- 56) B. Findeis, M. Schubart, L. H. Gade, *Inorganic Synthesis* **1998**, *32*, 136.
"Tris[(*tert*-butylamino)-dimethylsilyl]methylsilane and its Precursors."

- 57) K. W. Hellmann, C. Bott, L. H. Gade, I. J. Scowen, M. McPartlin, *Polyhedron* **1998**, *17*, 737 (*Special Issue dedicated to Don Bradley*).
"Triamidostannates(II) as Nucleophiles: Synthesis of Allyltriamidostannanes."
- 58) G. Jansen, M. Schubart, B. Findeis, L. H. Gade, I. J. Scowen, M. McPartlin, *J. Am. Chem. Soc.* **1998**, *120*, 7239.
"Unsupported Ti-Co and Zr-Co Bonds in Heterobimetallic Complexes: A Theoretical Description of Metal-Metal Bond Polarity."
- 59) A. Bashall, P. Collier, L. H. Gade, M. McPartlin, P. Mountford, D. J. M. Trösch, *Chem. Commun.*, **1998**, 2555.
"C-H-Activation and C-N-Coupling of Methylacetylenes and Allenes with an Imidotitanium Complex."
- 60) K. W. Hellmann, A. Bergner, L. H. Gade, I. J. Scowen, M. McPartlin, *J. Organomet. Chem.*, **1999**, *573*, 156 (*Special Issue dedicated to B.F.G. Johnson*).
"Synthesis of Mixed-Metal Li/M, M/M' and Mixed Valence M^I/M^{III} Chelate Amido Complexes of the Heavy Group 13 Metals (M = In, Tl)."
- 61) M. Schubart, G. Mitchell, L. H. Gade, Thomas Kottke, I. J. Scowen, M. McPartlin, *Chem. Commun.* **1999**, 233.
"Ionic Cleavage of Ti-Co and Zr-Co Bonds: The Role of the Nucleophilicity of the Late Transition Metal in the Reactive Behaviour of Early-Late Heterobimetallics."
- 62) S. Fabre, B. Findeis, D. J. M. Trösch, L. H. Gade, I. J. Scowen, M. McPartlin, *Chem. Commun.* **1999**, 577.
"Atom-Transfer within the Coordination Sphere of Early-Late Heterobimetallic Complexes: Rapid Deoxygenation of Sulfoxides at Low Temperatures."
- 63) C. H. Galka, L. H. Gade, *Inorg. Chem.* **1999**, *38*, 1038.
"Metal-Metal versus Metal-Arene Interactions in Polyfunctional Thallium(I) Amides."
- 64) L. H. Gade, M. Schubart, B. Findeis, S. Fabre, I. Bezougli, M. Lutz, I. J. Scowen, M. McPartlin, *Inorg. Chem.* **1999**, *38*, 5282.
"Synthesis and Reactivity of Early-Late Heterodinuclear Complexes Stabilized by a Trisilylsilane-Based Tripodal Ligand."

- 65) L. H. Gade, S. Friedrich, D. J. M. Trösch, I. J. Scowen, M. McPartlin, *Inorg. Chem.* **1999**, *38*, 5295.
"Heterodi- and Trinuclear Complexes Containing Highly Polar Metal-Metal Bonds."
- 66) S. Garcia-Yuste, K. W. Hellmann, L. H. Gade, I. J. Scowen, M. McPartlin, *Z. Naturforsch. B* **1999**, *54*, 1260.
"Bis[1,3-diphenylmethylsilylamidopropane]zirconium: A Spirocyclic Complex Containing a Sterically Demanding Chelating Amido Ligand."
- 67) P. Renner, C. H. Galka, H. Memmler, U. Kauper, L. H. Gade, *J. Organomet. Chem.* **1999**, *591*, 71 (*Special Issue on Amide Chemistry*).
"The Tendency of Tripodal Amidozirconium and Hafnium Complexes to form Hexacoordinate Structures: Alkali Metal Halide Cages vs Solvent Adducts."
- 68) L. H. Gade, H. Memmler, U. Kauper, A. Schneider, S. Fabre, I. Bezougli, M. Lutz, C. H. Galka, I. J. Scowen, M. McPartlin, *Chem. Eur. J.* **2000**, *6*, 692.
"Cooperative Reactivity of Early-Late Heterodinuclear Complexes Towards Polar Organic Substrates."
- 69) L. H. Gade, *Chem. Commun.* **2000**, 173.
"Taming Early Transition Metals": The Use of Polydentate Amido-Donor Ligands to Create Well-Defined Reactive Sites in Reagents and Catalysts."
- 70) L. H. Gade, *Angew. Chem.* **2000**, *112*, 2768; *Angew. Chem. Int. Ed.* **2000**, *37*, 2658.
"Highly Polar Metal-Metal Bonds in "Early-Late" Heterobimetallic Complexes."
- 71) L. H. Gade, *Jahrb. Akad. Wiss. Göttingen* **2000**, 53.
Übergangsmetallkomplexe mit mehrzähligen Amidoliganden: Strukturbausteine und chemische "Werkzeuge."
- 72) L. H. Gade, B. Findeis, O. Gevert, H. Werner, *Z. Anorg. Allg. Chem.* **2000**, *626*, 1030.
"Synthesis and Molecular Structure of a Tripodal Triaminostibine."
- 73) S. M. Pugh, D. J. M. Trösch, D. J. Wilson, A. Bashall, F. G. N. Cloke, L. H. Gade, P. B. Hitchcock, M. McPartlin, J. F. Nixon, P. Mountford, *Organometallics* **2000**, *19*, 3205.
"Cycloaddition Reactions of the Titanium Imide [Ti(NBu^t){MeC(2-C₅H₄N)-(CH₂NSiMe₃)₂}(py)] with Bu^tCP and MeCN."

- 74) A. Bashall, P. E. Collier, L. H. Gade, M. McPartlin, P. Mountford, S. M. Pugh, S. Radojevic, M. Schubart, I. J. Scowen, D. J. M. Trösch, *Organometallics* **2000**, *19*, 4784.
"C-C and C-N Coupling Reactions of an Imidotitanium Complex with Isocyanides."
- 75) C. H. Galka, D. J. M. Trösch, I. Rüdener, L. H. Gade, I. J. Scowen, M. McPartlin, *Inorg. Chem* **2000**, *39*, 4615.
"Synthesis and Structural Characterization of Metalated 1,8-Bis(silylamino)naphthalene Derivatives."
- 76) C. H. Galka, D. J. M. Trösch, M. Schubart, L. H. Gade, I. J. Scowen, M. McPartlin, *Eur. J. Inorg. Chem.* **2000**, 2577.
"Structural Patterns and Forms of Aggregation of Metallated Diamido-Donor Ligands on going from Lithium to Thallium(I)."
- 77) A. J. Blake, P. E. Collier, L. H. Gade, P. Mountford, S. E. Pugh, M. Schubart, D. J. M. Trösch, *Inorg. Chem.* **2001**, *40*, 870.
"Group 4 Imido Complexes Stabilized by a Tridentate Diamido-Donor Ligand."
- 78) L. H. Gade, P. Mountford, *Coord. Chem. Rev.* **2001**, *216/217*, 65.
"New Transition Metal Imido Chemistry with Diamido-Donor Ligands."
- 79) C. H. Galka, L. H. Gade, *Chem. Commun.* **2001**, 899.
"A Mixed Valent Thallium Amide Bearing a Butylthallium(III) Unit Stabilized by a Tripodal Amido Ligand."
- 80) L. H. Gade, P. Renner, H. Memmler, F. Fecher, C. H. Galka, M. Laubender, S. Radojevic, M. McPartlin, J. W. Lauher, *Chem. Eur. J.* **2001**, *7*, 2563.
" C_3 -Chiral Tripodal Amido Complexes."
- 81) P. Renner, C. H. Galka, L. H. Gade, S. Radojevic, M. McPartlin, *Eur. J. Inorg. Chem.* **2001**, 1425.
"Generating a New Chiral Ligand System for High-Valent Early Transition Metals: Synthesis and Structural Characterization of C_3 -symmetrical Tripodal Alkyl/Silyl Amido Complexes."

- 82) P. Renner, C. H. Galka, L. H. Gade, S. Radojevic, M. McPartlin, *J. Chem. Soc., Dalton Trans* **2001**, 964.
"Synthesis and Structural Characterization of a Novel C₃-Chiral Triamine and its Trilithium Triamide."
- 83) P. Renner, C. H. Galka, L. H. Gade, M. McPartlin, *Inorg. Chem. Commun.* **2001**, 4, 191.
"Solution Dynamics and Crystal Structure of a Novel C₃-Chiral Triamine Containing a Trisilylsilane Backbone and Synthesis of its Trilithium Triamide."
- 84) C. H. Galka, P. Renner, L. H. Gade, *Inorg. Chem. Commun.* **2001**, 4, 332.
"A Dithallium-Derivative of an Amino-Tripod."
- 85) C. H. Galka, H. Memmler, L. H. Gade, M. McPartlin, *Z. Anorg. Allg. Chem.* **2001**, 627, 1417.
"Synthesis and Molecular Structure of a C₃-chiral Triaminodistannane."
- 86) M. Lutz, M. Haukka, T. A. Pakkanen L. H. Gade *Organometallics* **2001**, 20, 2631.
"Structural Characterization of the Product of Intramolecular Oxygen-Transfer from a Ketone to CO within the Coordination Sphere of a Zr-Fe Heterodimetallic Complex."
- 87) M. Lutz, B. Findeis, M. Haukka, T. A. Pakkanen, L. H. Gade, *Organometallics*, **2001**, 20, 2505.
"Ti-Sn, Zr-Sn and Hf-Sn Heterodimetallic Complexes Containing Unsupported Metal-Metal Bonds"
- 88) S. M. Pugh, A. J. Blake, L. H. Gade, P. Mountford, *Inorg. Chem.* **2001**, 40, 3992.
"Group 5 Imido Complexes Derived from Diamido-pyridine Ligands."
- 89) C. Mazet, L. H. Gade, *Organometallics* **2001**, 20, 4144.
"A Bis(oxazolanyl)pyrrole as a Tridentate Supporting Ligand in the Catalytic Suzuki-Type C-C Coupling"
- 90) D. J. M. Trösch, A. Bashall, P. E. Collier, L. H. Gade, M. McPartlin, P. Mountford, *Organometallics* **2001**, 20, 3308.
"C-N Coupling Reactions of Allenes and Methylacetylenes with an Imidotitanium Complex"

- 91) L. H. Gade, *Angew. Chem.* **2001**, *113*, 3685; *Angew. Chem. Int. Ed.* **2001**, *40*, 3573.
"Encapsulated, Sandwiched or Sticking Out: Closed-Shell Interactions of d¹⁰ Metal Centres with Thallium(I)."
- 92) S. M. Pugh, D. J. M. Trösch, M. E. G. Skinner, L. H. Gade, P. Mountford, *Organometallics*, **2001**, *20*, 3531.
"Group 5 Imido Complexes Supported by Diamidopyridine Ligands: Aryloxide, Amide, Benzamidinate, Alkyl and Cyclopentadienyl Derivatives."
- 93) M. Lutz, B. Findeis, M. Haukka, T. A. Pakkanen, L. H. Gade, *Eur. J. Inorg. Chem.* **2001**, 3155.
"A Tripodal Triaminostannate as a Metal Nucleophile: Synthesis of Transition Metal-Tin Heterodimetallic Complexes."
- 94) I. Haller, P. Renner, L. H. Gade, *Polyhedron (Symposia-in-Print)* **2002**, *21*, 629.
"A C₃-chiral Lithium Triamidostannate(II) Containing a Sn-Li Bond."
- 95) L. H. Gade, *Chem. in Uns. Zeit* **2002**, *36*, 168.
"Alfred Werners Koordinationstheorie: "Eine geniale Frechheit"
- 96) M. Lutz, C. H. Galka, M. Haukka, T. A. Pakkanen, L. H. Gade, *Eur. J. Inorg. Chem.* **2002**, 1968.
"Intramolecular Lithium Cation Solvation in the "Active Ligand Periphery" of a Tripodal Triaminostannate."
- 97) L. H. Gade, *Eur. J. Inorg. Chem.* **2002**, 1257.
"Tripodal Triaminostannates: Anionic Cages as Ligands in Transition Metal Chemistry."
- 98) L. H. Gade, *Acc. Chem. Res.* **2002**, *35*, 575.
"Tripodal Amido Complexes: Molecular 'Claws' in Main Group and Transition Metal Chemistry."
- 99) L. H. Gade, *J. Organomet. Chem.* **2002**, *661*, 85 (*Special Issue of the Sonderforschungsbereich 347*).
"Transition Metal Complexes with Polydentate Amido Ligands: Novel Structural Building Blocks and Chemical Reagents."

- 100) M. Lutz, B. Findeis, M. Haukka, R. Graff, T. A. Pakkanen, L. H. Gade, *Chem. Eur. J.*, **2002**, *8*, 3269.
"Metal-Metal Bonds between Group 12 Metals and Tin: Structural Characterization of the Complete Series of Sn-M-Sn (M = Zn, Cd, Hg) Heterodimetallic Complexes."
- 101) L. H. Gade, C. H. Galka, K. W. Hellmann, R. M. Williams, L. de Cola, I. J. Scowen, M. McPartlin, *Chem. Eur. J.* **2002**, *8*, 3732.
"Tetraaminopyrenes: Their Efficient Synthesis and Physical Properties."
- 102) S. Bellemin-Laponnaz, L. H. Gade, *Chem. Commun.* **2002**, 1286.
"Three 2-Oxazolanyl Rings on One Quaternary Carbon Atom: Preparation of a Novel Tripodal Trisoxazoline Ligand and the Tetrameric Molecular Structure of its Cu^I Complex."
- 103) C. Mazet, L. H. Gade, *Chem. Eur. J.* **2002**, *8*, 4308.
"Charging and Deforming the Pybox Ligand: Enantiomerically Pure Double Helices and Their Interconversion."
- 104) G. D. Engel, L. H. Gade, *Chem. Eur. J.* **2002**, *8*, 4319.
"Construction and Probing of Multisite Chiral Catalysts: Dendrimer-Fixation of C₂-symmetrical Diphosphinerhodium Complexes."
- 105) M. Lutz, M. Haukka, T. A. Pakkanen, L. H. Gade, *Organometallics* **2002**, *21*, 3477.
"A Triamidostannate(II) as a "Spectator Ligand" in an Organozirconium Complex: Insertion of CO into a Zr-CH₃ Fragment in the Presence of a Zr-Sn Bond."
- 106) S. Bellemin-Laponnaz, L. H. Gade, *Angew. Chem.* **2002**, *114*, 3623; *Angew. Chem. Int. Ed.* **2002**, *41*, 3473.
"A Modular Approach to C₁ and C₃-Chiral N-Tripod Ligands for Asymmetric Catalysis."
- 107) V. César, S. Bellemin-Laponnaz, L. H. Gade, *Organometallics* **2002**, *21*, 5204.
"Direct Coupling of Oxazolines and N-Heterocyclic Carbenes: A Modular Approach to a New Class of C-N Donor Ligands for Homogeneous Catalysis."
- 108) R. A. Findeis, L. H. Gade, *J. Chem. Soc., Dalton Trans.* **2002**, 3952.
"Didentate Phosphine Ligands with Acetylene Linker Units as Building Blocks for Dendrimer Fixation."

- 109) B. D. Ward, S. R. Dubberley, A. Maise-François, L. H. Gade, P. Mountford, *J. Chem. Soc. Dalton Trans.* **2002**, 4649.
"Scandium Chloride, Alkyl and Phenyl Complexes of Diamido-Donor Ligands."
- 110) B. D. Ward, E. Clot, S. R. Dubberley, L. H. Gade, P. Mountford, *Chem. Commun.* **2002**, 2618.
"Synthesis and Reactivity of the Imidotungsten Methyl Cation $[W(N_2N_{py})(NPh)Me]^+$: CO_2 adds to the $W=NPh$ Bond and Does Not Insert into the $W-Me$ Bond."
- 111) C. Mazet, L. H. Gade, *Inorg. Chem.* **2003**, 42, 210.
"Synthesis and Coordination Chemistry of the First C_2 -Chiral Bisoxazine Ligand."
- 112) R. A. Findeis, L. H. Gade, *Eur. J. Inorg. Chem.* **2003**, 99.
"Tripodal Phosphine Ligands with Novel Linker-Units: Their Rhodium Complexes as Building Blocks for Dendrimer Catalysts."
- 113) R. A. Findeis, L. H. Gade, *Dalton Trans.* **2003**, 249.
"Tridentate Phosphine Ligands with Novel Linker-Units."
- 114) L. H. Gade, *Dalton Trans.* **2003**, 267.
"Molecular Structures, Solid-State Aggregation and Redox Transformations of Low-Valent Amido-Thallium Compounds."
- 115) M. Lutz, M. Haukka, T. A. Pakkanen, M. McPartlin, L. H. Gade, *Inorg. Chim. Acta*, **2003**, 345, 185 (*Special Issue dedicated to R.R. Schrock*).
"Lithium Cation Solvation in the Ligand Periphery of an *ortho*-Fluorophenyl Substituted Tripodal Triaminostannate."
- 116) M. Lutz, M. Haukka, T. A. Pakkanen, L. H. Gade, *Z. Anorg. Allg. Chem.* **2003**, 629, 182.
"Synthesis and Molecular Structure of a Hexaaminodistannane Comprising two Identical Triaminotin subunits."
- 117) C. Mazet, L. H. Gade, *Eur. J. Inorg. Chem.* **2003**, 1161.
"Bis(oxazoliny)pyrrole-Palladium Complexes as Catalysts in Heck and Suzuki Type C-C Coupling Reactions."

- 118) C. Mazet, L. H. Gade, *Chem. Eur. J.* **2003**, *9*, 1759.
"Double Bonds in Motion: Bis(oxazolinylmethyl)pyrroles and their Metal-Induced Planarization to a New Class of Rigid C₂-Chiral Complexes."
- 119) M. Lutz, M. Haukka, T. A. Pakkanen, L. H. Gade, *Inorg. Chem.* **2003**, *42*, 2798.
"Syntheses and Structural Characterization of the Heavier Alkali Metal Stannates Bearing the Tripodal Triamino Framework; Structural Trends in the Series of [MeSi{SiMe₂N(4-CH₃C₆H₄)₃Sn}[M] (M = Na, K, Rb)."
- 120) L. H. Gade, C. H. Galka, R. M. Williams, L. De Cola, M. McPartlin, L. Chi, B. Dong, *Angew. Chem.* **2003**, *115*, 2781; *Angew. Chem. Int Ed.* **2003**, *42*, 2677.
"Synthesis, Photophysical Properties and Nano-Crystal Formation of a New Class of Tetra-N-substituted Perylenes."
- 121) Y. Ribourdouille, G. D. Engel, M. Richard-Plouet, L. H. Gade, *Chem. Commun.* **2003**, 1228.
"A Strongly Positive Dendrimer Effect in Asymmetric Catalysis: Asymmetric Allylic Aminations with Pyrphos-Palladium Functionalised PPI and PAMAM Dendrimers."
- 122) B. D. Ward, S. R. Dubberley, L. H. Gade, P. Mountford, *Inorg. Chem.* **2003**, *42*, 4961.
"Group 6 Imido Complexes Supported by Diamido-Donor Ligands."
- 123) Y. Ribourdouille, G. D. Engel, L. H. Gade, *C. R. Chimie.* **2003**, *6*, 1087.
"The Immobilization of Chiral Catalysts on Dendrimers."
- 124) V. César, S. Bellemin-Laponnaz, L. H. Gade, *Angew. Chem.* **2004**, *116*, 1036; *Angew. Chem. Int Ed.* **2004**, *43*, 1014.
"A Modular Assembly of Chiral Oxazolinylcarbene-Rhodium Complexes: Efficient Non-Phosphine Based Catalysts in the Asymmetric Hydrosilylation of Dialkylketones."
- 125) B. D. Ward, A. Maise-François, P. Mountford, L. H. Gade, *Chem. Commun.* **2004**, 704.
"Synthesis and Structural Characterization of an Azatitanacyclobutene: The Key Intermediate in the Catalytic Anti-Markovnikov Addition of Primary Amines to α -Alkynes."

- 126) C. H. Galka, L. H. Gade, *Inorg. Chim. Acta.* **2004**, 357, 1725 (*Special Issue dedicated to H. Werner + Editorial "Protagonists in Chemistry", p. 1637 - 1641*).
"Synthesis and Structural Characterization of Metallated Aminomethylanilines"
- 127) M. B. Meder, L. H. Gade, *Eur J. Inorg. Chem.* **2004**, 2716.
"The Coordination Chemistry of Bis(pyridylimino)- and Bis(thiazolylimino)isoindolato-Copper Complexes: Investigation of their Catalytic Behavior in Oxidation Reactions."
- 128) B. Siggelkow, M. B. Meder, C. H. Galka, L. H. Gade, *Eur. J. Inorg. Chem.* **2004**, 3424.
"Synthesis, Structures and Catalytic Properties of Bis(2-pyridylimino)isoindolate-Palladium Complexes."
- 129) V. César, S. Bellemin-Laponnaz, L. H. Gade, *Eur J. Inorg. Chem.* **2004**, 3436.
"Cationic and Neutral Oxazoline-Carbene-Rhodium(I) Complexes."
- 130) C. Dro, S. Bellemin-Laponnaz, R. Welter, L. H. Gade, *Angew. Chem.* **2004**, 116, 4579; *Angew. Chem. Int. Ed.* **2004**, 43, 4479.
"A C_3 -symmetrical Chiral Trisoxazoline Zinc Complex as a Functional Model for Zinc Hydrolases: Kinetic Resolution of Racemic Chiral Esters by Transesterification."
- 131) B. D. Ward, G. Orde, E. Clot, C. L. Boyd, A. R. Cowley, L. H. Gade, P. Mountford, *Organometallics* **2004**, 23, 4444.
"Synthesis, reactivity and computational studies of the cationic tungsten methyl complex $[W(NPh)(N_2N_{py})Me]^+$ and related compounds ($N_2N_{py} = MeC(2-C_5H_4N)-(CH_2NSiMe_3)_2$)."
- 132) M. B. Meder, B. A. Siggelkow, L. H. Gade, *Z. Anorg. Allg. Chem.* **2004**, 630, 1962. (*Special Issue dedicated to M. Veith*)
"Allylic Peroxidations with Bis(pyridylimino)isoindolato-Cobalt and Iron Complexes."
- 133) V. César, S. Bellemin-Laponnaz, L. H. Gade, *Chem. Soc. Rev.* **2004**, 619.
"Chiral N-Heterocyclic Carbenes as Stereodirecting Ligands in Asymmetric Catalysis"
- 134) B. D. Ward, S. Bellemin-Laponnaz, L. H. Gade, *Angew. Chem.* **2005**, 117, 1696; *Angew. Chem. Int. Ed.* **2005**, 44, 1668.
" C_3 -Chirality in Polymerization Catalysis: A Highly Active Dicationic Scandium(III) Catalyst for the Isoselective Polymerization of 1-Hexene."

- 135) B. D. Ward, G. Orde, E. Clot, A. R. Cowley, L. H. Gade, P. Mountford, *Organometallics* **2005**, *24*, 2368.
"Reactions of neutral and cationic diamide-supported imido complexes with CO₂ and other heterocumulenes: issues of site selectivity."
- 136) V. César, S. Bellemin-Laponnaz, H. Wadepohl, L. H. Gade, *Chem. Eur. J.* **2005**, *11*, 2862.
"Designing the "Search Pathway" in the Development of a New Class of Highly Efficient Stereoselective Hydrosilylation Catalysts."
- 137) B. Siggelkow, L. H. Gade, *Z. Anorg. Allg. Chem.* **2005**, *631*, 2575. (*Special Issue dedicated to H. W. Roesky*).
"Multiple Functionalization of Bis(2-pyridylimino)isoindole (BPI) Ligands: Their Modular Synthesis and Coordination to Palladium."
- 138) A. Tuchbreiter, H. Werner, L. H. Gade, *Dalton Trans.* **2005**, 1394.
"A Posteriori' Modification of Carbosilane Dendrimers and Dendrons: Their Activation in Core and Branch Positions."
- 139) M. B. Meder, I. Haller, L. H. Gade, *Dalton Trans.* **2005**, 1403.
"The Fixation of Bis(2-pyridylimino)isoindolato (BPI) Ligands to Dendritic Carbosilanes."
- 140) M. B. Meder, C. H. Galka, L. H. Gade, *Monatsh. Chemie* **2005**, *136*, 1693.
"Bis(2-pyridylimino)isoindole (BPI) Ligands with Novel Linker Units: Synthesis and Characterization of their Palladium and Platinum Complexes."
- 141) C. Foltz, B. Stecker, G. Marconi, H. Wadepohl, S. Bellemin-Laponnaz, L. H. Gade, *Chem. Commun.* **2005**, 5115.
"Exploiting C₃-Symmetry in the Dynamic Coordination of a Chiral Trisoxazoline to Copper(II): Improved Enantioselectivity, and Catalyst Stability in Asymmetric Lewis Acid Catalysis."
- 142) N. Schneider, V. César, S. Bellemin-Laponnaz, L. H. Gade, *Organometallics* **2005**, *24*, 4886.
"Modular Assembly of a Chiral Bis(oxazoliny)carbene: A New Meridionally Coordinating Tridentate Spectator Ligand."

- 143) N. Schneider, V. César, S. Bellemin-Lapponnaz, L. H. Gade, *J. Organomet. Chem.* **2005**, *690*, 5556. (*Special Issue on "Transition Metal Complexes of Carbenes 2005"*).
"Synthesis and Structural Chemistry of Oxazolinyl-Carbene Copper(I) Complexes"
- 144) M. Stöhr, M. Wahl, C. H. Galka, T. Riehm, T. A. Jung, L. H. Gade, *Angew. Chem.* **2005**, *117*, 7560; *Angew. Chem. Int. Ed.* **2005**, *44*, 7394.
"Controlling Molecular Assembly in two Dimensions: The Concentration Dependence of Thermally Induced 2D-Aggregation of Molecules on a Metal Surface."
- 145) M. Seitz, C. Capacchione, S. Bellemin-Lapponnaz, H. Wadepohl, B. D. Ward, L. H. Gade, *Dalton Trans.* **2006**, 193.
"Bisoxazolines with One and Two Sidearms: Stereodirecting Ligands for Copper-Catalysed Asymmetric Allylic Oxidations of Alkenes."
- 146) M. Forcato, F. Lake, M. Mba Blasquez, P. Renner, M. Crisma, L. H. Gade, G. Licini, C. Moberg, *Eur. J. Inorg. Chem.* **2006**, 1032.
"Chiral Enantiopure Al(III) and Ti(IV) Azatranes."
- 147) M. Poyatos, A. Maise-François, S. Bellemin-Lapponnaz, E. Peris, L. H. Gade, *J. Organomet. Chem.* **2006**, *691*, 2713.
"Synthesis and Structural Chemistry of Arene-Ruthenium Halfsandwich Complexes Bearing an Oxazolinyl-Carbene Ligand."
- 148) B. D. Ward, L. H. Gade, P. Mountford, *Acta Cryst. E* **2006**, *62*, m472.
"Lithiation of the diaminopyridine protioligand $\text{MeC}(2\text{-C}_5\text{H}_4\text{N})\{\text{CH}_2\text{N}(\text{H})\text{Mes}\}_2$ (Mes = 2,4,6- $\text{C}_6\text{H}_2\text{Me}_3$)."
- 149) M. Poyatos, A. Maise-François, S. Bellemin-Lapponnaz, L. H. Gade, *Organometallics* **2006**, *25*, 2634.
"Coordination Chemistry of a Modular N,C-Chelating Oxazole-Carbene Ligand and its Applications in Hydrosilylation Catalysis."
- 150) J. Kassube, L. H. Gade, *Top. Organomet. Chem.* **2006**, *20*, 61 (+ *Editorial, Volume Editor: L. H. Gade*).
"Stereoselective Dendrimer Catalysis."

- 151) B. D. Ward, H. Risler, S. Bellemin-Lapponnaz, H. Wadepohl, L. H. Gade, *Inorg. Chem.* **2006**, *45*, 7777.
"2-Aminopyrrolidines: New Chiral Amidinate Ligands with a Rigid, Well Defined Molecular Structure and their Coordination to Ti^{IV}."
- 152) J.-F. Nierengarten, L. H. Gade, *LEOPOLDINA (R.3)* **2006**, *51*, 273.
"Dendrimere: Plattformen für chemische Funktionalität."
- 153) B. Dong, C. H. Galka, L. H. Gade, Li. Chi, R. M. Williams, *Nanopages* **2006**, *1*, 325.
"Hydrogen-Bond Assisted Formation Of Rod Shaped Organic Nanocrystals: Control Of The Aggregational State And Structural Characterization."
- 154) S. Bellemin-Lapponnaz, L. H. Gade, *Top. Organomet. Chem.* **2007**, *21*, 117.
"Chiral N-heterocyclic Carbenes as Stereodirecting Ligands in Asymmetric Catalysis."
- 155) L. H. Gade, S. Bellemin-Lapponnaz, *Coord. Chem. Rev.* **2007**, 718. (*Special Issue on Carbene Chemistry*)
"Mixed Oxazoline-Carbenes as Stereodirecting Ligands for Asymmetric Catalysis."
- 156) L. H. Gade, G. Marconi, C. Dro, B. D. Ward, M. Poyatos, S. Bellemin-Lapponnaz, H. Wadepohl, A. Caneschi, G. Poneti, *Chem. Eur. J.* **2007**, *13*, 3058.
"Shaping and Enforcing Coordination Spheres: The Implications of C₃ and C₁ Chirality in the Coordination Chemistry of 1,1,1-Tris(oxazolinyl)ethanes."
- 157) L. Lukešová, B. D. Ward, S. Bellemin-Lapponnaz, H. Wadepohl, L. H. Gade, *Dalton Trans.* **2007**, 920.
"A C₃-Chiral Thulium Complex: the First Lanthanide Catalyst for the Isotactic Polymerization of 1-Hexene."
- 158) C. Foltz, M. Enders, S. Bellemin-Lapponnaz, H. Wadepohl, L. H. Gade, *Chem. Eur. J.* **2007**, *13*, 5994.
"Using a Tripod as a Chiral Chelating Ligand: Chemical Exchange Between Equivalent Molecular Structures in Palladium Catalysis with 1,1,1-Tris(oxazolinyl)ethane ("Trisox")."
- 159) M. Wahl, M. Stöhr, H. Spillmann, T. A. Jung, L. H. Gade, *Chem. Commun.* **2007**, 1349.
"Rotation-libration in a hierarchic supra-molecular rotor-stator system: Arrhenius activation and retardation by local interaction."

- 160) S. Bellemin-Lapponnaz, L. H. Gade, *L'Actualité Chimique* **2007**, 307, 16.
“Symétrie C_3 en Catalyse : application de ligands tris(oxazolines) des réactions énantiosélectives.”
- 161) T. Riehm, G. DePaoli, A. Konradsson, L. de Cola, H. Wadepohl, L. H. Gade, *Chem. Eur. J.* **2007**, 13, 7317.
“Tetraazaperopyrenes: A New Class of Multifunctional Chromophores.”
- 162) M. Stöhr, M. Wahl, H. Spillmann, L. H. Gade, T. A. Jung, *SMALL* **2007**, 3, 1336.
“Lateral manipulation for the positioning of molecular guests within the Confinements of a Highly Stable Self-Assembled Organic Surface Network.”
- 163) C. Capacchione, H. Wadepohl, L. H. Gade, *Z. Anorg. Allg. Chem.* **2007**, 633, 2131
(*Special Issue dedicated to D. Fenske*).
“Synthesis, Structure and Dynamics of a C_2 -chiral *Pyrrmebox*-Zinc Complex”
- 164) M. Kilian, H. Wadepohl, L. H. Gade, *Organometallics* **2007**, 26, 3076.
“Flexibly Coordinating Tris(Arylamido)stannates as Ligands: A $[Rh]^+/[Sn]^-$ Zwitterion as an Intermediate in the Formation of Rh–Sn Complexes.”
- 165) L. Lukešová, B. D. Ward, S. Bellemin-Lapponnaz, H. Wadepohl, L. H. Gade, *Organometallics* **2007**, 26, 4652.
“ C_3 -symmetric Chiral Organolanthanide Complexes: Synthesis, Characterization, and Stereospecific Polymerization of α -Olefins.”
- 166) N. Vujkovic, B. D. Ward, A. Maise-François, H. Wadepohl, P. Mountford, L. H. Gade, *Organometallics* **2007**, 26, 5522.
“Imido-Acetylene Coupling in Titanium Complexes: Insights into the Mechanism of Acetylene Hydroamination.”
- 167) C. Foltz, B. Stecker, G. Marconi, S. Bellemin-Lapponnaz, H. Wadepohl, L. H. Gade, *Chem. Eur. J.* **2007**, 13, 9912.
“Stereochemical Consequences of Threefold Symmetry in Asymmetric Catalysis: Distorting C_3 Chiral 1,1,1-Tris(oxazoliny)ethanes (“Trisox”) in Cu^{II} Lewis Acid Catalysts.”

- 168) H. Herrmann, J. Lloret Fillol, H. Wadepohl and L. H. Gade, *Angew. Chem.* **2007**, *119*, 8578; *Angew. Chem. Int. Ed.* **2007**, *46*, 8426.
“A Zirconium Hydrazide as a Synthone for a Metallanitrene Equivalent: Atom-by-Atom Assembly of EN_2^{2-} Units (E = S, Se) by Chalcogen Atom Transfer in the Coordination Sphere of a Transition Metal.”
- 169) M. Kilian, H. Wadepohl, L. H. Gade, *Dalton Trans* **2008**, 582.
“A Chiral Stannate as an “Ansa”- π -Arene Ligand in Rhodium Chemistry”
- 170) C. Foltz, S. Bellemin-Lapponnaz, M. Enders, H. Wadepohl, L. H. Gade, *Org. Lett.* **2008**, *10*, 305.
“Thermal Rearrangement of 2-Bromooxazolines to 2-Bromoisocyanates.”
- 171) H. Herrmann, J. Lloret Fillol, H. Wadepohl, L. H. Gade, *Organometallics* **2008**, *27*, 172.
“A Zirconium (1-Pyridinio)imido Complex: Facile N-N-Bond Cleavage and N-C Bond Formation.”
- 172) M. Kilian, H. Wadepohl, L. H. Gade, *Organometallics* **2008**, *27*, 524.
“Triamidostannates(II) as Sterically Demanding Ligands for Group 9 Metals: Peripheral Precoordination for Rhodium vs. Cyclometallation for Iridium.”
- 173) M. Matena, T. Riehm, M. Stöhr, T. A. Jung, L. H. Gade, *Angew. Chem.* **2008**, *120*, 2448; *Angew. Chem. Int. Ed.* **2008**, *47*, 2414.
“Transforming Surface Coordination Polymers to Covalent Surface Polymers: Linked Poly-Condensed Aromatics via Oligomerisation of N-Heterocyclic Carbene Intermediates.”
- 174) M. Kilian, H. Wadepohl, L. H. Gade, *Eur. J. Inorg. Chem.* **2008**, 1892.
“Synthesis and Structural Characterization of New Rhodium-Tin Heterodimetallic Complexes.”
- 175) L. H. Gade, S. Bellemin-Lapponnaz, *Chem. Eur. J.* **2008**, *14*, 4142.
“Exploiting Threefold Symmetry in Asymmetric Catalysis: The Case of Tris(oxazoliny)ethanes (“Trisox”).”

- 176) J. Kassube, H. Wadepohl, L. H. Gade, *Adv. Synth. Catal.* **2008**, *350*, 1155.
“Synthesis of Peripherally Functionalised Dendritic BINAP-Systems and their Application as Ligands in the Copper Catalysed Hydrosilylation of Acetophenone.”
- 177) H. Herrmann, H. Wadepohl, L. H. Gade, *Dalton Trans.* **2008**, 2111.
“En Route to Stable Zirconium Hydrazides.”
- 178) M. Kilian, H. Wadepohl, L. H. Gade, *Z. Anorg. Allg. Chem.* **2008**, 1378. (*Special Issue dedicated to H. Nöth*).
“The Role of the "Ligand Periphery" in the Coordination of Tripodal Triamidostannates(II) to Iridium: Simple Ligation vs. Cyclometallation.”
- 179) N. Vujkovic, J. Lloret Fillol, B. D. Ward, H. Wadepohl, P. Mountford, L. H. Gade, *Organometallics* **2008**, *27*, 2518.
“Insertions into Azatitanacyclobutenes: New Insights into Three-Component Coupling Reactions Involving Imidotitanium Intermediates.”
- 180) B. Jacques, C. Dro, S. Bellemin-Lapponnaz, H. Wadepohl, L. H. Gade, *Angew. Chem.* **2008**, *120*, 4622; *Angew. Chem. Int. Ed.* **2008**, *47*, 4546.
"Self-Assembly of a Cyclic Zn₄O₄ Tetramer by Oxidation of a Bisoxazoline: A Molecular "Nest" for Nucleophilic OH."
- 181) B. K. Langlotz, H. Wadepohl, L. H. Gade, *Angew. Chem.* **2008**, *120*, 4748; *Angew. Chem. Int. Ed.* **2008**, *47*, 4670.
“Chiral Bis(pyridylimino)isoindols: A Highly Modular Class of “Pincer” Ligands for Enantioselective Catalysis.”
- 182) H. Herrmann, J. Lloret Fillol, T. Gehrman, M. Enders, H. Wadepohl, L. H. Gade, *Chem. Eur J.* **2008**, *14*, 8131.
“Bonding and Bending in Group 4 Metal Hydrazides.”
- 183) H. Herrmann, T. Gehrman, H. Wadepohl, L. H. Gade, *Dalton Trans.* **2008**, 6231.
“Zirconium and Hafnium (1-Pyridinio)imido Complexes: Functionalized Terminal Hydrazinediido Analogues.”

- 184) B. K. Langlotz, J. Lloret Fillol, J. H. Gross, H. Wadepohl, L. H. Gade, *Chem. Eur J.* **2008**, *14*, 10267.
“Living Radical Polymerization of Acrylates Mediated by 1,3-Bis(2-pyridylimino)isoindolato-Cobalt(II) Complexes.”
- 185) T. Riehm, G. De Paoli, H. Wadepohl, L. De Cola, L. H. Gade, *Chem. Commun.* **2008**, 5348.
“Diborylenetetraaminoperylenes (DIBOTAP): A new class of functional polycyclic aromatic hydrocarbons with N-B-N units.”
- 186) N. Schneider, S. Bellemin-Lapponaz, H. Wadepohl, L. H. Gade, *Eur. J. Inorg. Chem.* **2008**, 5587.
“A New Class of Modular Oxazoline-NHC Ligands and their Coordination Chemistry with Platinum Metals.”
- 187) T. Riehm, H. Wadepohl, L. H. Gade, *Inorg. Chem.* **2008**, *47*, 11467.
“Putting Group 13 Metals onto Perylenes: Highly Fluorescent N-B-N- and N-Al-N-substituted Polycyclic Aromatics.”
- 188) N. Schneider, M. Kruck, S. Bellemin-Lapponaz, H. Wadepohl, L. H. Gade, *Eur. J. Inorg. Chem.* **2009**, 493.
“Chiral Oxazoline-NHC Ligands with and without CR₂-Bridges: A Comparative Study in Rhodium Hydrosilylation Catalysis.”
- 189) N. Schneider, M. Finger, C. Haferkemper, S. Bellemin-Lapponaz, P. Hofmann, L. H. Gade, *Angew. Chem.* **2009**, *121*, 1637; *Angew. Chem. Int. Ed.* **2009**, *48*, 1609.
“Metal Silylenes Generated by Double Si-H Activation: Key Intermediates in the Rh-Catalyzed Hydrosilylation of Ketones.”
- 190) B. D. Ward, L. Lukesova, H. Wadepohl, S. Bellemin-Lapponaz, L. H. Gade, *Eur. J. Inorg. Chem.* **2009**, 866.
“Scandium-Catalyzed Polymerisation of Propene – 1-Heptene: Remarkable Activity and Tacticity Control.”
- 191) T. Gehrman, J. Lloret Fillol, H. Wadepohl, L. H. Gade, *Angew. Chem.* **2009**, *121*, 2186; *Angew. Chem. Int. Ed.* **2009**, *48*, 2152.
"Assembly of an R₃N₅²⁻ Chain by Cycloaddition of a Hydrazinediide and an Azide at Zirconium and its Thermal Fragmentation."

- 192) J.K. Kassube, H. Wadepohl, L. H. Gade, *Adv. Synth. Catal.* **2009**, *351*, 607.
"Immobilization of the BINAP Ligand on Dendrimers and Hyperbranched Polymers: Dependence of the Catalytic Properties on the Linker Unit."
- 193) J. K. Kassube, L. H. Gade, *Adv. Synth. Catal.* **2009**, *351*, 739.
"Immobilization of the Pyrphos Ligand on soluble Hyperbranched Supports and their use in Rhodium Catalyzed Hydrogenations in Ionic Liquids."
- 194) K. Weitershaus, B. D. Ward, R. Kubiak, C. Müller, S. Doye, H. Wadepohl, L. H. Gade, *Dalton Trans.* **2009**, 4586.
"Titanium Hydroamination Catalysts Bearing 2-Aminopyrrolidines: Monitoring the Individual Reaction Steps. "
- 195) M. Gaab, S. Bellemin-Lapponnaz, L. H. Gade, *Chem. Eur. J.* **2009**, *15*, 5450.
"Catalysis in a Tea Bag": Synthesis, Catalytic Performance and Recycling of Dendrimer-Immobilized Bis- and Trisoxazoline Copper Catalysts."
- 196) K. Weitershaus, H. Wadepohl, L. H. Gade, *Organometallics* **2009**, *28*, 3381.
"Titanium Hydrazinediido Halfsandwich Complexes: Highly Active Catalysts for the Hydrohydrazination of Terminal Alkynes at Ambient Temperature."
- 197) J. Lobo-Checa, M. Matena, K. Müller, J. H. Dil, F. Meier, J. Osterwalder, L. H. Gade, T. A. Jung, M. Stöhr, *Science* **2009**, *325*, 300.
"Surface state confinement imposed by a supramolecular porous network: Subband formation from coupled quantum wells."
- 198) K. Weitershaus, J. Lloret Fillol, H. Wadepohl, L. H. Gade, *Organometallics* **2009**, *28*, 4747.
"Reactions of Titanium Hydrazinediido Complexes with Unsaturated Organic Substrates. "
- 199) N. Schneider, M. Finger, C. Haferkemper, S. Bellemin-Lapponnaz, P. Hofmann, L. H. Gade, *Chem. Eur. J.* **2009**, *15*, 11515.
"Multiple Reaction Pathways in Rhodium Catalyzed Hydrosilylations of Ketones."

- 200) F. Konrad, J. Lloret Fillol, H. Wadepohl, L. H. Gade, *Inorg. Chem.* **2009**, *48*, 8523.
"Bis(oxazolinylmethyl)pyrrole Derivatives and their Coordination as Chiral Pincer Ligands to Rhodium."
- 201) F. Konrad, J. Lloret Fillol, C. Rettenmeier, H. Wadepohl, L. H. Gade, *Eur. J. Inorg. Chem.* **2009**, 4950.
"Bis(oxazolinylmethyl)-Derivatives of C₄H₄E-Heterocycles (E = NH, O, S) as C₂-Chiral Meridionally Coordinating Ligands for Transition Metals."
- 202) T. Gehrman, J. Lloret Fillol, H. Wadepohl, L. H. Gade, *Organometallics* **2010**, *29*, 28.
"Bridging N-Aminoisocyanate Ligands in Heterobimetallic Complexes: Coupling of Zirconium Hydrazinediides and Transition Metal Carbonyls."
- 203) M. Matena, M. Stöhr, T. Riehm, J. Björk, S. Martens, M. S. Dyer, M. Persson, J. Lobo-Checa, K. Müller, M. Enache, H. Wadepohl, J. Zegenhagen, T. A. Jung, L. H. Gade, *Chem. Eur. J.* **2010**, *16*, 2079.
"Aggregation and Contingent Metal/Surface Reactivity of Tetraazaperopyrene (TAPP) on Cu(111)."
- 204) J. Björk, M. Matena, M. S. Dyer, M. Enache, J. Lobo-Checa, L. H. Gade, T. A. Jung, M. Stöhr, M. Persson, *Phys.Chem.Chem.Phys.* **2010**, *12*, 8815.
"STM Fingerprint of molecule-atom interactions in a self-assembled metal—organic surface coordination network on Cu(111)."
- 205) L. H. Gade, B. Langlotz, J. Camerano, A.-S. Rodrigues, *Polymer Preprints* **2010**, *51*, 365.
"1,3-Bis(2-pyridylimino)isoindolato-Cobalt(II) and Ruthenium(II) Complexes as Mediators for Radical Polymerizations of Acrylates and Styrene."
- 206) V. César, L. H. Gade, S. Bellemin-Lapponnaz in *N-Heterocyclic Carbenes: From Laboratory Curiosities to Efficient Synthetic Tools* (Ed.: S. Díez-González), RSC, Cambridge, **2010**, p. 228.
"NHC-Cobalt, Rhodium and Iridium Complexes in Catalysis."
- 207) J. A. Camerano, C. Sämann, H. Wadepohl, L. H. Gade, *Organometallics* **2011**, *30*, 379.
"Bis(pyridylimino)indolato-Iridium Complexes as Epoxidation Catalysts for Alkenes."

- 208) S. Martens, T. Riehm, S. Hölzel H. Wadepohl, L. H. Gade, *J. Org. Chem.* **2011**, *76*, 609.
"Substituent Effects in the Periphery of 2,9-Diaryl-Tetraazaperopyrene Dyes."
- 209) J. A. Camerano, A.-S. Rodrigues, F. Rominger, H. Wadepohl, L. H. Gade, *J. Organomet. Chem.* **2011**, *696*, 1425.
"Synthesis and Structural Chemistry of Bis(pyridylimino)isoindolato-Ruthenium Complexes and their Activity as Mediators in the Atom Transfer Radical Polymerization (ATRP) of Styrene."
- 210) Y.-B. Kang, L. H. Gade, *J. Am. Chem. Soc.* **2011**, *133*, 3658.
"The Nature of the Catalytically Active Species in Olefin Dioxygenation with $\text{PhI}(\text{OAc})_2$: Metal or Proton?"
- 211) T. Gehrman, J. Lloret Fillol, S. Scholl, H. Wadepohl, L. H. Gade, *Angew. Chem.* **2011**, *123*, 5876; *Angew. Chem. Int. Ed.* **2011**, *50*, 5757.
"Zirconium-Catalyzed Multistep Reaction Sequences of Hydrazines with Alkynes: A Non-Fischer Type Pathway to Indoles."
- 212) M. Kruck, D. C. Sauer, M. Enders, H. Wadepohl, L. H. Gade, *Dalton Trans.* **2011**, *40*, 10406.
"Bis(2-pyridylimino)isoindolato Iron(II) and Cobalt(II) Complexes: Structural Chemistry and Paramagnetic NMR Spectroscopy."
- 213) J. Lloret Fillol, A. Kruckenberg, P. Scherl, H. Wadepohl, L. H. Gade, *Chem. Eur. J.* **2011**, *17*, 14047.
"Stitching Phospholanes Together Piece by Piece: New Modular Di- and Tridentate Stereodirecting Ligands."
- 214) Q.-H. Deng, H. Wadepohl, L. H. Gade, *Chem. Eur. J.* **2011**, *17*, 14922.
"The Synthesis of a New Class of Chiral Pincer Ligands and their applications in Enantioselective Catalytic Fluorinations and the Nozaki-Hiyama-Kishi Reaction."
- 215) T. Gehrman, M. Kruck, H. Wadepohl, L. H. Gade, *Chem. Commun.* **2012**, *48*, 2397.
"Stitching Together SN_x Units in the Coordination Sphere of Zirconium: Assembly of a Tris(imido)sulfite and a Hydrazidobis(imido)sulfite."

- 216) Y.-B. Kang, L. H. Gade *J. Org. Chem* **2012**, *77*, 1610.
"Triflic Acid Catalyzed Oxidative Lactonization and Diacetoxylation of Alkenes Using Peroxyacids as Oxidants."
- 217) L. H. Gade, *Z. Anorg. Allg. Chem.* **2012**, *638*, 247.
"A Flash of Genius: Alfred Werner's Coordination Theory."
- 218) Q.-H. Deng, H. Wadepohl, L. H. Gade, *J. Am. Chem. Soc.* **2012**, *134*, 2946.
"Highly Enantioselective Copper-Catalyzed Alkylation of β -Ketoesters and Subsequent Cyclization to Spirolactones/bi-Spirolactones."
- 219) S. C. Martens, U. Zschieschang, H. Wadepohl, H. Klauk, L. H. Gade, *Chem. Eur. J.* **2012**, *18*, 3498.
"Tetrachlorinated Tetraazaperopyrenes (TAPPs): Highly Fluorescent Dyes and Semiconductors for Air-Stable Organic n-Channel Transistors and Complementary Circuits."
- 220) L.-I. Rodríguez, T. Roth, J. Lloret Fillol, H. Wadepohl, L. H. Gade, *Chem. Eur. J.* **2012**, *18*, 3721.
"The More Gold – The More Enantioselective: Cyclohydroaminations of γ -Allenyl Sulfonamides with Mono-, Bis- and Trisphospholane Gold(I) Catalysts."
- 221) T. Gehrman, S. A. Scholl, J. Lloret Fillol, H. Wadepohl, L. H. Gade, *Chem. Eur. J.* **2012**, *18*, 3925.
"Alternative Reaction Pathways in Domino Reactions of Zirconium Hydrazinediido Complexes with Alkynes."
- 222) T. Gehrman, G. T. Plundrich, H. Wadepohl, L. H. Gade, *Organometallics*, **2012**, *31*, 3346.
[2+2] Cycloaddition Products of Zirconium and Hafnium Hydrazinediides with Allenes and Heteroallenes and their Thermally Induced Rearrangements
- 223) S. C. Martens, T. Riehm, H. Wadepohl, L. H. Gade, *Eur. J. Inorg. Chem.* **2012**, 3039.
"Tetra-*N*-silylated Di(bolylene)tetraaminoperylene ("DIBOTAPs"): Synthesis, Structures and Photophysics."

- 224) T. Gehrman, J. Lloret Fillol, H. Wadepohl, L. H. Gade, *Organometallics*, **2012**, *31*, 4504.
“Synthesis, Characterization and Thermal Rearrangement of Zirconium Tetraazadienyl and Pentaazadienyl Complexes.”
- 225) Q.-H. Deng, H. Wadepohl, L. H. Gade, *J. Am. Chem. Soc.* **2012**, *134*, 10769.
“Highly Enantioselective Copper-Catalyzed Electrophilic trifluoromethylation of β -Ketoesters.”
- 226) S. Geib, S. C. Martens, U. Zschieschank, H. Wadepohl, H. Klauk, L. H. Gade, *J. Org. Chem* **2012**, *77*, 6107.
“1,3,6,8-Tetraazapyrenes: Synthesis, Solid State Structures and Properties as Redox-Active Materials.”
- 227) B. D. Ward, L. H. Gade, *Chem. Commun.* **2012**, *48*, 10587.
“Rare Earth Metal Oxazoline Complexes in Asymmetric Catalysis”
- 228) P. Scherl, A. Kruckenberg, S. Mader, H. Wadepohl, L. H. Gade, *Organometallics* **2012**, *31*, 7024.
“ η^4 -Trimethylenemethane Ruthenium Complexes containing Tripodal Phosphanomethylamine Ligands.”
- 229) N. Grüger, H. Wadepohl, L. H. Gade, *Dalton Trans* **2012**, *41*, 14028.
“A Readily Accessible PNP Pincer Ligand with a Pyrrole Backbone and its Ni^{II} Chemistry.”
- 230) D. C. Sauer, H. Wadepohl, L. H. Gade, *Inorg. Chem.* **2012**, *51*, 12948.
“Cobalt alkyl complexes of a new family of chiral 1,3-bis(2-pyridylimino)isoindolates and their application in asymmetric hydrosilylation.”
- 231) M. Kruck, H. Wadepohl, M. Enders, L. H. Gade, *Chem. Eur. J.* **2013**, *19*, 1599.
“Giant Residual Dipolar ¹³C-¹H Couplings in High-Spin Organoiron Complexes: Elucidation of their Structures in Solution by ¹³C NMR.”
- 232) D. C. Sauer, M. Kruck, H. Wadepohl, M. Enders, L. H. Gade, *Organometallics* **2013**, *32*, 885.
“Spin Density Distribution in Iron(II) and Cobalt(II) Alkyl Complexes Containing 1,3-Bis(2-pyridylimino)isoindolate Ligands.”

- 233) N. Grüger, L.-I. Rodríguez, H. Wadepohl, L. H. Gade, *Inorg. Chem.* **2013**, *52*, 2050.
"Achiral and Chiral PNP-Pincer Ligands with a Carbazole Backbone: Coordination Chemistry with d⁸ Transition Metals."
- 234) S. Scholl, H. Wadepohl, L. H. Gade, *Organometallics* **2013**, *32*, 937.
"Zirconium Hydrazinediido Complexes Derived from Cyclic Hydrazines and their Role in the Catalytic Synthesis of 1,7-Annulated Indoles."
- 235) Q.-H. Deng, T. Bleith, H. Wadepohl, L. H. Gade, *J. Am. Chem. Soc.* **2013**, *135*, 5356.
"Enantioselective Iron-Catalyzed Azidation of β -Keto Esters and Oxindoles".
- 236) S. Geib, U. Zschieschang, M. Gsänger, M. Stolte, F. Würthner, H. Wadepohl, H. Klauk, L. H. Gade, *Adv. Funct. Mater.* **2013**, *23*, 3866.
"Core-Brominated Tetraazaperopyrenes as n-Channel Semiconductors for Complementary Electronic Circuits on Flexible Supports."
- 237) P. D. Schweizer, H. Wadepohl, L. H. Gade, *Organometallics* **2013**, *32*, 3697.
"Titanium-catalyzed Hydrohydrazination of Carbodiimides."
- 238) T. Gehrman, J. Lloret Fillol, H. Herrmann, H. Wadepohl, L. H. Gade, *Organometallics* **2013**, *32*, 3877.
"Zirconium Hydrazides as Metallanitrene Synthons: Release of Molecular N₂ from a Hydrazinediido Complex Induced by Oxidative N-N-Bond Cleavage. "
- 239) S. C. Martens, L. Hahn, F. Lombeck, A. Rybina, H. Wadepohl, L. H. Gade, *Eur. J. Org. Chem.* **2013**, 5295.
"Annulated Heterocyclic Derivatives of 1,3,6,8-Tetraazapyrene (TAPy). "
- 240) P. Scherl, H. Wadepohl, L. H. Gade, *Organometallics* **2013**, *32*, 4409.
"Hydrogenation and Silylation of a Double-Cyclometallated Ruthenium Complex: Structures and Dynamic Behavior of Hydrido and Hydridosilicate-Ruthenium Complexes."
- 241) S. A. Scholl, G. T. Plundrich, H. Wadepohl, L. H. Gade, *Inorg. Chem.* **2013**, *52*, 10158.
"Zirconium complexes supported by an *N*-perfluoro-arylated diamidopyridyl ligand: Synthesis of hydrazinediido complexes."

- 242) S. Geib, S. C. Martens, M. Märken, A. Rybina, H. Wadepohl, L. H. Gade, *Chem. Eur. J.* **2013**, *19*, 13811.
"Tuning Redox Chemistry and Photophysics in Core-Substituted Tetraazaperopyrenes."
- 243) T. Roth, H. Wadepohl, D. S. Wright, L. H. Gade *Chem. Eur. J.* **2013**, *19*, 13823.
"Chiral Ditopic Cyclophosphazane (CycloP) Ligands: Synthesis, Coordination Chemistry and Applications in Asymmetric Catalysis."
- 244) N. Grüger, H. Wadepohl, L. H. Gade, *Eur. J. Inorg. Chem.* **2013**, 5358.
"Iridium Complexes Stabilized by a PNP Pincer Ligand: Syntheses, Structural Chemistry and Bond Activations."
- 245) A. Kruckenberg, H. Wadepohl, L. H. Gade, *Organometallics* **2013**, *32*, 5253.
"Bis(diisopropylphosphinomethyl)amine Nickel(II) and Nickel(0) Complexes – Coordination Chemistry, Reactivity and Catalytic Decarbonylative C-H-Arylation of Benzoxazole."
- 246) Q.-H. Deng, C. Rettenmeier, H. Wadepohl, L. H. Gade, *Chem. Eur. J.* **2014**, *20*, 93.
"Copper-Boxmi Complexes as Highly Enantioselective Catalysts for Electrophilic Trifluoromethylthiolations."
- 247) L. Hahn, S. Öz, H. Wadepohl, L. H. Gade, *Chem. Commun.* **2014**, *50*, 4941.
"Highly emissive water-soluble TAPPs as fluorescence markers."
- 248) P. D. Schweizer, H. Wadepohl, L. H. Gade, *Organometallics* **2014**, *33*, 1726
"Zirconium and Hafnium Hydrazinediido Halfsandwich Complexes: Synthesis and Reactivity."
- 249) R. L. Melen, H. R. Simmonds, H. Wadepohl, P. T. Wood, L. H. Gade, D. S. Wright, *Aust. J. Chem.* **2014**, *67*, 1030. (*Invited Contribution to a Special Issue on Chemistry of Guanidine, Guanidinium and Guanidinate Compounds*).
"Formation of an Unusual Bis(diguanidinate) Ligand via Nucleophilic Attack of a Guanidinate onto a Carbodiimide."
- 250) A. Shchyrba, S. C. Martens, M. Matena, C. Wäckerlin, T. Ivas, H. Wadepohl, T. A. Jung, L. H. Gade, *Chem. Commun.* **2014**, *50*, 7628.
"Covalent assembly of a two-dimensional molecular "sponge" on a copper(111) surface: Confined electronic surface states in open and closed pores."

- 251) A. Shchyrba, C. Wäckerlin, J. Nowanowski, S. Nowakowska, J. Björk, S. Fatayer, T. Nijs, J. Girovski, S. Martens, A. Kleibert, M. Stöhr, N. Ballav, T. A. Jung, L. H. Gade, *J. Am. Chem. Soc.* **2014**, *136*, 9355.
"Controlling the dimensionality of on-surface coordination polymers via endo- or exo-ligation."
- 252) C. Rettenmeier, H. Wadepohl, L. H. Gade, *Chem. Eur. J.* **2014**, *20*, 9657.
"Chiral Nickel(I) Pincer Complexes and Their Role in the Enantioselective Hydrodehalogenation of Geminal Dihalogenides."
- 253) D. C. Sauer, R. L. Melen, M. Kruck, L. H. Gade, *Eur. J. Inorg. Chem.* **2014**, 4715.
"Chromophores, Fluorophores and Robust Ancillary Ligands for Molecular Catalysts: 1,3-Bis(2-pyridylimino)isoindolines."
- 254) Q.-H. Deng, R. L. Melen, L. H. Gade, *Acc. Chem. Res.* **2014**, *47*, 3162.
"Anionic Chiral Tridentate N-Donor Pincer Ligands in Asymmetric Catalysis."
- 255) M. Matena, J. Björk, M. Wahl, T.-L. Lee, J. Zegenhagen, L. H. Gade, T. A. Jung, M. Persson, M. Stöhr, *Phys. Rev. B* **2014**, *90*, 125408.
"On-surface synthesis of a two-dimensional porous coordination network: Unravelling adsorbate interactions."
- 256) T. Gehrman, H. Wadepohl, L. H. Gade, *Z. Anorg. Allgem. Chem.* **2015**, *641*, 40
(Invited Contribution to a Special Issue on Reactive Nitrogen-Containing Species).
"Synthesis and Structural Characterization of a Lithium Alkynyl(hydrazinediido)-zirconate and its Protonolysis to an Alkynylhydrazido(1-)zirconium Complex."
- 257) S. Nowakowska, A. Shchyrba, S. Kawai, T. Ivas, J. Nowakowski, S. Fatayer, C. Wäckerlin, T. Nijs, E. Meyer, J. Björk, M. Stöhr, L. H. Gade, T. A. Jung, *Nat. Commun.* **2015**, *6*, 6071 (DOI: 10.1038/NCOMMS7071).
"Interplay of weak interactions in the atom-by-atom condensation of Xe within quantum boxes."
- 258) A. L. Müller, T. Bleith, T. Roth, H. Wadepohl, L. H. Gade, *Organometallics* **2015**, *34*, 2326.
"Iridium Halfsandwich Complexes with Di- and Tridentate Bis(pyridylimino)isoindolato (BPI) Ligands: Stoichiometric and Catalytic Reactivity."

- 259) C. A. Rettenmeier, H. Wadepohl, L. H. Gade, *Angew. Chem.* **2015**, *127*, 4962; *Angew. Chem. Int. Ed.* **2015**, *54*, 4880.
"Structural Characterization of a Hydroperoxo Nickel Complex and its Autoxidation: Mechanism of interconversion between Peroxo, Superoxo and Hydroperoxo Species."
- 260) T. Roth, V. Vasilenko, C. G. M. Benson, H. Wadepohl, D. S. Wright, L. H. Gade, *Chem. Sci.* **2015**, *6*, 2506.
"Extending *N*-Heterocyclic Carbene Ligands into the Third Dimension: A New Type of Hybrid Phosphazane/NHC System."
- 261) T. Bleith, H. Wadepohl, L. H. Gade, *J. Am. Chem. Soc.* **2015**, *137*, 2456.
"Iron Achieves Noble Metal Reactivity and Selectivity: Highly Reactive and Enantioselective Iron Complexes as Catalysts in the Hydrosilylation of Ketones."
- 262) A. L. Müller, H. Wadepohl, L. H. Gade, *Organometallics* **2015**, *34*, 2810.
"Bis(pyridylimino)isoindolato (BPI) Osmium Complexes: Structural Chemistry and Reactivity."
- 263) L. Hahn, H. Wadepohl, L. H. Gade, *Org. Lett.* **2015**, *17*, 2266.
"Tetralithiated Tetraazaperopyrene as Key Intermediate for the Synthesis of Functionalized Derivatives."
- 264) C. G. M. Benson, V. Vasilenko, R. Garcia-Rodriguez, A. D. Bond, S. González Calera, L. H. Gade, D. S. Wright, *Dalton Trans.* **2015**, *44*, 14242.
"Synthesis and Structures of $[S=(H)P(\mu-NR)]_2$, Potential Building Blocks for Inorganic Phosphorus-Sulfur Macrocycles."
- 265) T. Roth, V. Vasilenko, H. Wadepohl, D. S. Wright, L. H. Gade, *Inorg. Chem.* **2015**, *54*, 7636.
"Structure, Bonding and Reactivity of Strained Phosphazane Cages: A Combined Experimental and Computational Study."
- 266) R. L. Melen, L. C. Wilkins, B. M. Kariuki, H. Wadepohl, L. H. Gade, A. S. K. Hashmi, D. W. Stephan, M. M. Hansmann, *Organometallics* **2015**, *34*, 4127.
"Reactions of Allenes with Lewis Acids and Bases: Addition and 1,2-Carboboration."

- 267) Y. Xu, C. A. Rettenmeier, G. T. Plundrich, H. Wadepohl, M. Enders, L. H. Gade, *Organometallics* **2015**, *34*, 5113.
"A Borane-Bridged Ruthenium Complex Bearing a PNP Ligand: Synthesis and Structural Characterization."
- 268) L. Hahn, F. Maaß, T. Bleith, U. Zschieschang, H. Wadepohl, H. Klauk, P. Tegeder, L. H. Gade, *Chem. Eur. J.* **2015**, *21*, 17691.
"Core Halogenation as a Construction Principle in Tuning the Materials Properties of Tetraazaperopyrenes (TAPP)."
- 269) T. Roth, H. Wadepohl, E. Clot, L. H. Gade, *Chem. Eur. J.* **2015**, *21*, 18730.
"Azaphilic vs. Carbophilic Coupling at C=N-Bonds: Key Steps in Titanium-Assisted Multicomponent Reactions."
- 270) S. Langbein, H. Wadepohl, L. H. Gade, *J. Org. Chem.* **2015**, *80*, 12620.
"Mercaptoaryl Tetraazaperopyrene Derivatives and their Oxidation to Tetrasulfones: Photophysics and Electrochemistry."
- 271) J. Wenz, C. A. Rettenmeier, H. Wadepohl, L. H. Gade, *Chem. Commun* **2016**, *52*, 202.
"Catalytic C-F Bond Activation of Geminal Difluorocyclopropanes by Nickel(I) Complexes via a Radical Mechanism."
- 272) G. T. Plundrich, H. Wadepohl, L. H. Gade, *Inorganic Chemistry* **2016**, *55*, 353.
"Synthesis and Reactivity Group 4 Metal Benzyl Complexes Supported by Carbazolide-Based (PNP) Pincer Ligands."
- 273) F. Maass, A. Stein, B. Kohl, L. Hahn, L. H. Gade, M. Mastalerz, P. Tegeder, *J. Phys. Chem. C* **2016**, *120*, 2866.
"Substrate-directed growth of N-heteropolycyclic molecules on a metal surface."
- 274) S. Langbein, H. Wadepohl, L. H. Gade, *Organometallics* **2016**, *35*, 809.
"Ditopic N-Heterocyclic Pincer Carbene Complexes Containing a Perylene Backbone."
- 275) C. A. Rettenmeier, H. Wadepohl, L. H. Gade, *Chem. Sci.* **2016**, *7*, 3533.
"Electronic Structure and Reactivity of Nickel(I) Pincer Complexes: Their Aerobic Transformation to Peroxo Species and Site Selective C-H Oxygenation."

- 276) R. L. Melen, L. H. Gade, *Topics in Organometallic Chemistry: Organometallic Pincer Chemistry II*, (Ed. G. van Koten and R. A. Gossage) **2016**, 54, 179.
"New Chemistry with Anionic NNN-Pincer Ligands."
- 277) T. Roth, H. Wadepohl, L. H. Gade, *Eur. J. Inorg. Chem.* **2016**, 1184.
"Cationic BPI Gold(III)-Complexes: Controlling Ligating and Non-Ligating Anions."
- 278) L. Hahn, N. J. Buurma, L. H. Gade, *Chem. Eur. J.* **2016**, 22, 6314.
"Water-soluble Tetraazaperopyrene Dye as a Strong G-quadruplex DNA Binder."
- 279) S. Kawai, A. S. Foster, T. Björkman, S. Nowakowska, J. Björk, F. F. Canova, L. H. Gade, T. A. Jung, E. Meyer, *Nat. Commun.* **2016**, 7, 11559. (DOI: 10.1038/ncomms11559).
"Van der Waals interactions and the limits of isolated atom models at interfaces studied by atomic force microscopy."
- 280) V. Vasilenko, T. Roth, C. K. Blasius, S. N. Intorp, H. Wadepohl, L. H. Gade, *Beilstein J. Org. Chem.* **2016**, 12, 846. (*Special Series Dedicated to the Memory of Peter Hofmann*).
"A Modular Approach to Neutral P,N-Ligands: Synthesis and Coordination Chemistry."
- 281) T. Bleith, L. H. Gade, *J. Am. Chem. Soc.* **2016**, 138, 4972.
"Mechanism of the Iron(II)-Catalyzed Hydrosilylation of Ketones: Activation of Iron Carboxylate Precatalysts and Reaction Pathways of the Active Catalyst."
- 282) G. T. Plundrich, H. Wadepohl, E. Clot, L. H. Gade, *Chem. Eur. J.* **2016**, 22, 9283.
" η^6 -Arene Zirconium PNP-Pincer Complexes: Mechanism of their Hydrogenolytic Formation and their Reactivity as Zirconium(II) Synthons."
- 283) S. Nowakowska, A. Wäckerlin, I. Piquero-Zulaica, J. Nowakowski, S. Kawai, C. Wäckerlin, M. Matena, T. Nijs, S. Fatayer, O. Popova, A. Ahsan, S. F. Mousavi, T. Ivas, E. Meyer, M. Stöhr, J. E. Ortega, J. Björk, L. H. Gade, J. Lobo-Checa, T. A. Jung, *Small* **2016**, 12, 3757.
"Addressing and configuring confined states in an atomically precise breadboard of quantum boxes."

- 284) T. Bleith, Q.-H. Deng, H. Wadepohl, L. H. Gade, *Angew. Chem.* **2016**, *128*, 7983; *Angew. Chem. Int. Ed.* **2016**, *55*, 7852.
"Radical Changes in Lewis Acid Catalysis: Matching Metal and Substrate."
- 285) C. A. Rettenmeier, J. Wenz, H. Wadepohl, L. H. Gade, *Inorg. Chem.* **2016**, *55*, 8214.
"Activation of Aryl Halides by Nickel(I) Pincer Complexes: Reaction Pathways of Stoichiometric and Catalytic Dehalogenations."
- 286) C. G. M. Benson, A. Plajer, R. Garcia-Rodriguez, A. D. Bond, S. Singh, L. H. Gade, D. S. Wright, *Chem. Commun.* **2016**, *52*, 9683.
"A Versatile Soft-Hard N/S-Ligand for Metal Coordination and Cluster Formation."
- 287) F. Foschi, T. Roth, H. Wadepohl, L. H. Gade, *Org. Lett.* **2016**, *18*, 5182.
"Ti(OiPr)₄-mediated multicomponent reactions involving triple additions to isonitrile carbon atoms."
- 288) I. Piquero-Zulaica, S. Nowakowska, J. E. Ortega, L. H. Gade, T. A. Jung, J. Lobo-Checa, *Appl. Surf. Sci.* **2017**, *291A*, 39.
"Origin of the Partially Localized State in a 2D molecular nanoporous network."
- 289) V. César, L. H. Gade, S. Bellemin-Lapponnaz in *N-Heterocyclic Carbenes: From Laboratory Curiosities to Efficient Synthetic Tools, 2nd Edition* (Ed.: S. Díez-González), RSC, Cambridge, **2017**, p. 302.
"NHC-Cobalt, Rhodium and Iridium Complexes in Catalysis."
- 290) J. Wenz, A. Kochan, H. Wadepohl, L. H. Gade, *Inorg. Chem.* **2017**, *56*, 3631.
"A Readily Accessible Chiral NNN Pincer Ligand with a Pyrrole Backbone and its Ni(II) Chemistry: Syntheses, Structural Chemistry and Bond Activations"
- 291) J. Wenz, H. Wadepohl, L. H. Gade, *Chem. Commun* **2017**, *53*, 4308.
"Regioselective Hydrosilylation of Epoxides Catalysed by Nickel(II) Hydrido Complexes."
- 292) V. Vasilenko, C. K. Blasius, H. Wadepohl, L. H. Gade, *Angew. Chem.* **2017**, *129*, 8513; *Angew. Chem. Int. Ed.* **2017**, *56*, 8393.
"Enantiocontrol in Manganese Reduction Catalysis: A Chiral Manganese Pincer Complex for the Highly Selective Hydroboration of Ketones."

- 293) A. J. Plajer, R. Garcia-Rodriguez, C. G. M. Benson, P. D. Matthews, A. D. Bond, S. Singh, L. H. Gade, D. S. Wright, *Angew. Chem.* **2017**, *129*, 9215; *Angew. Chem. Int. Ed.* **2017**, *56*, 9087.
"A Modular Approach to Inorganic Phosphazane Macrocycles."
- 294) L. Hahn, A. Hermannsdorfer, B. Günther, T. Wesp, B. Bühler, U. Zschieschang, H. Wadepohl, H. Klauk, L. H. Gade, *J. Org. Chem.* **2017**, *82*, 12492.
"(Oligo-)Thiophene Functionalized Tetraazaperopyrenes: Donor-Acceptor Dyes and Ambipolar Organic Semiconductors."
- 295) J. Wenz, V. Vasilenko, A. Kochan, H. Wadepohl, L. H. Gade, *Eur. J. Inorg. Chem.* **2017**, 5545.
"Coordination Chemistry of the Pd₄Box Pincer Ligand: Reactivity at the Metal and the Ligand."
- 296) F. Foschi, T. Roth, M. Enders, H. Wadepohl, E. Clot, L. H. Gade, *Chem. Commun.* **2018**, *54*, 2228.
"Isolation and Structural Characterization of a Titanacyclopropane as Key Intermediate in the Double Aryl Grignard Addition to 2-(Arylethynyl)pyridine Derivatives."
- 297) J. C. Ott, C. K. Blasius, H. Wadepohl, L. H. Gade, *Inorg. Chem.* **2018**, *57*, 3183.
"Synthesis, Characterization and Reactivity of a *high-spin* Iron(II) Hydrido Complex supported by a PNP Pincer Ligand and its Application as a Homogenous Catalyst for the Hydrogenation of Alkenes."
- 298) L. S. Merz, H. Wadepohl, E. Clot, L. H. Gade, *Chem. Sci.* **2018**, *9*, 5223.
"Dehydrogenative Coupling of 4-Substituted Pyridines Mediated by a Zirconium(II) Synthon: Reaction Pathways and Dead Ends."
- 299) D. Hartmann, H. Wadepohl, L. H. Gade, *Z. Anorg. Allgem. Chem.* **2018**, *644*, 1011.
(Invited Contribution to a Special Issue dedicated to Alexander C. Filippou)
"Synthesis and Structural Characterization of Group 10 Metal Complexes Bearing an Amidodiphosphine Pincer Ligand."
- 300) V. Vasilenko, C. K. Blasius, L. H. Gade, *J. Am. Chem. Soc.* **2018**, *140*, 9244.
"One-Pot Sequential Kinetic Profiling of a Highly Reactive Manganese Catalyst for Ketone Hydroboration: Leveraging σ -Bond Metathesis via Alkoxide Exchange Steps."

- 301) C. K. Blasius, V. Vasilenko, L. H. Gade, *Angew. Chem.* **2018**, *130*, 10392; *Angew. Chem. Int. Ed.* **2018**, *57*, 10231.
"Ultrafast Iron-Catalyzed Reduction of Functionalized Ketones: Highly Enantioselective Synthesis of Halohydrines, Oxaheterocycles and Aminoalcohols."
- 302) C. H. Schiwiek, V. Vasilenko, H. Wadepohl, L. H. Gade, *Chem. Commun.* **2018**, *54*, 9139.
"The Open d-Shell Enforces the Active Space in 3d Metal Catalysis: Highly Enantioselective Chromium(II) Pincer Catalysed Hydrosilylation of Ketones."
- 303) J. C. Ott, H. Wadepohl, M. Enders, L. H. Gade, *J. Am. Chem. Soc.* **2018**, *140*, 17413.
"Taking Solution Proton NMR to Its Extreme: Prediction and Detection of a Hydride Resonance in an Intermediate Spin State Iron Complex."
- 304) A. Ahsan, S. F. Mousavi, T. Nijs, S. Nowakowska, O. Popova, A. Wäckerlin, J. Björk, L. H. Gade, T. A. Jung, *Small* **2019**, *15*, 1803169.
"'Phase transitions' in quantum confinements: Inducing mobility of Xenon atoms in the pores of an on-surface network."

III) Patents:

- 1) N. Langer, S. Geib, S. C. Martens, L. H. Gade, Eur. Pat. Appl. (**2012**), EP 2489668 A1 20120822 and PCT Int. Appl. (**2012**), WO 2012110970 A1 20120823.
"Tetraazapyrene compounds and their use as n-type semiconductors."
- 2) L. H. Gade, S. C. Martens, S. Geib, Eur. Pat. Appl. (**2012**), EP 2521195 A1 20121107 and PCT Int. Appl. (**2012**), WO 2012123848 A1 20120920. "Tetraazaperopyrene compounds and their use as n-type semiconductors."