

## List of Publications: L. H. Gade (December 2017)

### 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.  
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- 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  $[\text{H}_3\text{CC}\{\text{CH}_2\text{N}(\text{Li})\text{R}\}_3]_2$ ."
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"Trisilylmethane as a Structural Backbone in Multifunctional Lithium Amides: The Syntheses and Structures of  $\text{HC}\{(\text{CH}_3)_2\text{SiN}(\text{Li})\text{tBu}\}_3$  and its Solvate  $\text{HC}\{(\text{CH}_3)_2\text{SiN}(\text{Li})\text{tBu}\}_3 \cdot 2 \text{ THF}$ ."

- 15) S. Friedrich, L. H. Gade, A. J. Edwards, M. McPartlin, *Chem. Ber.*, **1993**, *126*, 1797.  
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- 16) S. Friedrich, L. H. Gade, A. J. Edwards, M. McPartlin, *J. Chem. Soc., Dalton Trans.* **1993**, 2861.  
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- 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  $[\text{Os}_{20}(\text{CO})_{40}]^{2-}$ ."
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- 19) H. Memmler, L. H. Gade, J. W. Lauher, *Inorg. Chem.* **1994**, *33*, 3064.  
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- 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."
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- 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. "
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"A "Passe-Partout" for the Stabilization of Highly Polar Unsupported M-M' Bonds (M = Ti, Zr, Hf; M' = Fe, Ru) and  $\alpha$ -Addition of the Metal Nucleophile-Electrophile-Pairs to an Isocyanide."

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