List of Publications in international refereed journals

53 Studies of Complexes between Phenyllithium and (−)-Sparteine in Ether Solution
Richard Sott, Mikael Håkansson and Göran Hilmersson*
Submitted for publication.

52 Estimating the redox potentials of SmI₂/H₂O/amine and YbI₂/H₂O/amine by efficient reduction of unsaturated hydrocarbons
Anders Dahlén, Åke Nilsson and Göran Hilmersson*

51 Correlation between the ⁶Li,¹⁵N coupling constant and the coordination number at lithium
Johan Granander, Richard Sott, Peter Dinér and Göran Hilmersson

50 Mechanistic Study of the SmI₂/H₂O/amine Mediated Reduction of Alkyl Halides – Amine Base Strength (pKₐ(α⁺)) Dependent Rate
Anders Dahlén and Göran Hilmersson*

49 Kinetic and NMR Spectroscopic Studies of Chiral Mixed Sodium/Lithium Amides Used for Deprotonation of Cyclohexene Oxide
Richard Sott, Johan Granander, Carl Williamson and Göran Hilmersson

48 Exploring SmBr₂-, SmI₂-, and YbI₂-Mediated Reactions Assisted by Microwave Irradiation
Anders Dahlén, Brian W. Knettle, Robert Flowers II and Göran Hilmersson*

47 Reduction of β-Hydroxyketones by SmI₂/Et₃N/H₂O
Todd A. Davis, Pramod R. Chopade, Göran Hilmersson and Robert A Flowers II

46 Micro review: Samarium(II) diiodide mediated reduction reactions–Influence of various additives
Anders Dahlén and Göran Hilmersson*

45 Microwave assisted generation of Lanthanide(II) halides in THF and simple quantitative determination
Anders Dahlén and Göran Hilmersson*

44 Solution structures of chiral lithium amides with internal sulfide coordination: sulfide vs. ether coordination in chiral lithium amides
Richard Sott, Johan Granander, Peter Dinér and Göran Hilmersson*
Mixed Complexes Formed from Lithiocetonitrile and Chiral Lithium Amides: Observation of $^6\text{Li}$,$^{15}\text{N}$ and $^6\text{Li}$,$^{13}\text{C}$ Couplings Due to Both C-Li and N-Li Contacts
Richard Sott, Johan Granander and Göran Hilmersson*

SmI$_2$/Water/Amine Mediates Cleavage of Allyl Ether Protected Alcohols: Application in Carbohydrate Synthesis and Mechanistic Considerations
Anders Dahlén, Andreas Sundgren, Martina Lahmann, Stefan Oscarson and Göran Hilmersson*
Org. Lett. 2003, 4085–4088

Reductive Coupling and Reduction of Imine mediated by Sm(II)-Based Reagents
Myeongseob Kim$^{[a]}$, Anders Dahlén$^{[b]}$, Göran Hilmersson*[$^{[b]}$, Brian W. Knettle$^{[a]}$ and Robert A. Flowers, II*$^{[a]}$

Giving Phenyllithium a Right-Handed Double-Helical Twist
Marcus Vestergren, Johan Eriksson, Göran Hilmersson* and Mikael Håkansson*

Diastereoselective intramolecular SmI$_2$–H$_2$O–amine mediated couplings
Anders Dahlén, Annika Petersson and Göran Hilmersson*

Rapid SmI$_2$-Mediated Reductions of Alkyl Halides and Electrochemical Properties of SmI$_2$/H$_2$O/Amine
Anders Dahlén, Göran Hilmersson*, Brian W. Knettle and Robert A. Flowers, II*

Chiral lithium amido sulfide ligands for asymmetric addition reactions of alkyllithium reagents to aldehydes
Johan Granander, Richard Sott and Göran Hilmersson*

Selective reduction of carbon-carbon double and triple bonds in conjugated olefines mediated by SmI$_2$/H$_2$O/amine in THF
Anders Dahlén and Göran Hilmersson*
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Instantaneous SmI$_2$/H$_2$O/Amine-Mediated Reductions in THF
Anders Dahlén and Göran Hilmersson*

On the Mechanism of Internal ortho-Lithiation in a Mixed Complex Between n-BuLi and a Chiral Lithium Amide
Per I. Arvidsson*, Öjvind Davidsson and Göran Hilmersson*

Instantaneous SmI$_2$-H$_2$O-mediated reduction of dialkyl ketones induced by amines in THF
Anders Dahlén and Göran Hilmersson*
Asymmetric addition of \( n \)-butyllithium to aldehydes: new insights into the reactivity and selectivity of the chiral amino ether accelerated reaction
Johan Granander, Richard Sott and Göran Hilmersson*
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Chelate Ring Size Controls the Formation of Mixed Complexes Involving Butyllithium and Sodium Amides
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Solvent Dependent Mixed Complex Formation–NMR Studies and Asymmetric Addition Reactions of Lithioacetetonitrile to Benzaldehyde Mediated by Chiral Lithium Amides
Richard Sott, Johan Granander and Göran Hilmersson*

Chelating alcohols accelerate the samarium diiodide mediated reduction of 3-heptanone
Anders Dahlén and Göran Hilmersson*

Mixed Dimer and Mixed Trimer Complexes of \( n \)-BuLi and a Chiral Lithium Amide
Göran Hilmersson* and Birgitta Malmros

An NMR and Computational Study of a Lithium Amide and Ethereal Ligand Exchange
Göran Hilmersson*

Guest exchange in an encapsulation complex: A supramolecular substitution reaction
Javier Santamaría, Tomás Martín, Göran Hilmersson, Stephen L. Craig, Julius Rebek, Jr.*

Enantioselective butylation of aldehydes by mixed chiral lithium amide/\( n \)-BuLi Dimers
Per I. Arvidsson, Öjvind Davidsson and Göran Hilmersson*
*Angew. Chem., Int. Ed. 1999, 38, 2199–2201

Rational Design of Chiral Lithium Amides for Asymmetric Alkylation Reactions – NMR Spectroscopic Studies of Mixed Lithium Amide/Alkyl lithium Complexes
Per I. Arvidsson, Göran Hilmersson and Öjvind Davidsson*

Enantioselective butylation of aldehydes by mixed chiral lithium amide/\( n \)-BuLi Dimers
Per I. Arvidsson, Öjvind Davidsson and Göran Hilmersson*
Solvent Catalysis, Mechanism of Degenerate Metallation and Solvation of Ferrocenophanylpotassium and [1.1]Ferrocenophanylsodium Studied by UV and NMR Spectroscopy
Annika Karlsson, Göran Hilmersson, Öjvind Davidsson, Martin Löwendahl and Per Ahlberg*

Stereoselective Diamine Chelates of a Chiral Lithium Amide Dimer: New Insights into the Coordination Chemistry of Chiral Lithium Amides
Per I. Arvidsson, Göran Hilmersson* and Per Ahlberg

Intraaggregation Fluxional Lithium and Carbanion Exchanges in a Chiral Lithium Amide/n-Butyllithium Mixed Tetramer Directly Observed by Multinuclear NMR
Per I. Arvidsson, Per Ahlberg and Göran Hilmersson*

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Self-Assembled Molecular Capsule Catalyzes a Diels-Alder Reaction
Jongmin Kang, Javier Santamaría, Göran Hilmersson and Julius Rebek Jr.*

Towards Solution-State Structure. A ⁶Li,¹H HOESY NMR, X-ray Diffraction, Semiempirical (PM3, MNDO), and ab Initio Computational Study of a Chiral Lithium Amide
Göran Hilmersson, Per I. Arvidsson, Öjvind Davidsson* and Mikael Håkansson

Dynamics of Assembly and Guest Exchange in the Tennis Ball
Tomas Szabo, Göran Hilmersson and Julius Rebek Jr.*

Coupling of molecular motions through non-bonding interactions: ¹³C NMR spin-lattice relaxation studies of a host–guest complex
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Solvent Controls Synthesis and Properties of Supramolecular Structures
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Jongmin Kang, Göran Hilmersson, Javier Santamaria and Julius Rebek, Jr.*
11 Intramolecular Hydrogen Bonding Controls the Exchange Rates of Guests in a Cavitand
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10 Chiral Lithium Amide/Solute Complexes: X-ray Crystallographic and NMR Spectroscopic Studies
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9 Mechanism and Solvent Catalysis of the Degenerate 1,12-Metalations of [1.1]Ferrocenophyllithium and [1.1]Ferrocenophanylsodium Studied by NMR Spectroscopy
Per Ahlberg,* Annika Karlsson, Öjvind Davidsson, Göran Hilmersson and Martin Löwendahl

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7 Iron Diprotonated [1.1]Ferrocenophane Generated in Super-acid and Directly Observed by NMR Spectroscopy
Annika Karlsson, Göran Hilmersson and Per Ahlberg*

6 [1,1]Ferrocenophanes in solution—anti or syn isomers?
Annika Karlsson, Martin Löwendahl, Göran Hilmersson, Öjvind Davidsson and Per Ahlberg*

5 Enantiomeric Perturbation of Equilibria. Differential Solvation of a Chiral Lithium Amide by the Enantiomers of 2-Methyltetrahydrofuran Measured by NMR Spectroscopy
_Göran Hilmersson, Per Ahlberg* and Öjvind Davidsson*

4 A Multinuclear NMR Study of a Chiral Lithium Amide with an Intramolecular Chelating Methoxy Group in Coordinating Solvents at the Slow Ligand Exchange Limit
_Göran Hilmersson and Öjvind Davidsson*

3 Solution structure of a key intermediate used in asymmetric alkylation reactions. ^1^H,^1^H-NOESY and ^6^Li,^1^H-HOESY studies of mixtures of a chiral lithium amide and n-butyllithium
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2 Stereogenic Lithium Centers in a Complex between $n$-Butyllithium and a Dilithiated Chiral Amine: Solution Studies by $^6$Li,$^1$H-HOESY, $^6$Li,$^6$Li-COSY, and $^6$Li,$^6$Li-EXSY NMR
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1 Crystal Structure of Ferrocenophanyl Lithium: Absence of an Intramolecular C-H–C Hydrogen Bond
Per Ahlberg,* Öjvind Davidsson, Göran Hilmersson, Martin Löwendahl and Mikael Håkansson

Other publications