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## DANIEL SEIDEL

### EDUCATION

1998 – 2002      **Ph.D.**, University of Texas at Austin  
1993 – 1998      **Diplom**, Friedrich-Schiller-Universität Jena, Germany

### PROFESSIONAL EXPERIENCE

08/2017 – present      **Professor**  
Department of Chemistry, University of Florida

07/2014 – 08/2017      **Professor**  
Department of Chemistry and Chemical Biology, Rutgers University

07/2011 – 06/2014      **Associate Professor**  
Department of Chemistry and Chemical Biology, Rutgers University

07/2005 – 06/2011      **Assistant Professor**  
Department of Chemistry and Chemical Biology, Rutgers University

07/2002 – 06/2005      **Postdoctoral Associate with Professor David A. Evans**  
Department of Chemistry and Chemical Biology, Harvard University  
*Development of Soft Enolization Catalysts and Their Application to Synthesis*

08/1998 – 06/2002      **Graduate Research/Teaching Assistant with Professor Jonathan L. Sessler**  
Department of Chemistry and Biochemistry, University of Texas at Austin  
*Development of New Methodologies for the Synthesis of Expanded Porphyrins*

09/1997 – 06/1998      **Undergraduate Exchange Researcher with Professor Jonathan L. Sessler**  
Department of Chemistry and Biochemistry, University of Texas at Austin  
*Synthesis and Complexation Studies of Oxygen-Analogues of Expanded Porphyrins*

07/1995 – 08/1997      **Undergraduate Researcher with Professor E.-G. Jäger and Dr. H. Keutel**  
Department of Chemistry, Friedrich-Schiller Universität Jena, Germany  
*Synthesis and Study of First Row Transition Metal Complexes*

### AWARDS AND HONORS

2016 – 2017      Novartis Chemistry Lectureship  
2016      Fellow of the Royal Society of Chemistry  
2014      Japanese Society for the Promotion of Science (JSPS) Fellow  
2013 – 2014      Humboldt Research Fellowship for Experienced Researchers  
2012      Carl Duisberg Memorial Prize of the German Chemical Society  
2011      Amgen Young Investigator Award  
2011      Alfred P. Sloan Research Fellowship  
2011      SAS Award for Distinguished Contributions to Undergraduate Education  
2011      Board of Trustees Research Fellowship for Scholarly Excellence  
2011      Presidential Fellowship for Teaching Excellence  
2009      Synthesis-Synlett Journal Award  
2002 – 2004      Ernst Schering Postdoctoral Fellowship  
2001 – 2002      Dorothy A. Banks Fellowship  
2001      University Co-op Award for Research Excellence  
2001      Welch Academic Excellence Award  
1997 – 1998      Fellow of the TASEP (Trans Atlantic Student Exchange Program)

## PUBLICATIONS

- 95 **“Reductive Etherification via Anion-Binding Catalysis.”** Chenfei Zhao, Christopher A. Sojda, Wazo Myint and Daniel Seidel, *J. Am. Chem. Soc.* **2017**, *139*, 10224–10227.
- 94 **“Asymmetric Brønsted Acid Catalysis with Chiral Carboxylic Acids.”** Chang Min and Daniel Seidel, *Chem. Soc. Rev.* **2017**, *46*, Advance Article.
- 93 **“Acetic Acid Promoted Redox Annulations with Dual C–H Functionalization.”** Zhengbo Zhu and Daniel Seidel, *Org. Lett.* **2017**, *19*, 2841–2844.
- 92 **“Catalytic Enantioselective Synthesis of Lactams via Formal [4+2] Cycloaddition of Imines With Homophthalic Anhydride.”** Claire L. Jarvis, Jennifer S. Hirschi, Mathew J. Vetticatt and Daniel Seidel, *Angew. Chem. Int. Ed.* **2017**, *56*, 2670–2674. ([highlighted in SYNFACTS, April 2017](#))
- 91 **“Redox-Neutral Aromatization of Cyclic Amines: Mechanistic Insights and Harnessing of Reactive Intermediates for Amine  $\alpha$ - and  $\beta$ -C–H Functionalization.”** Longle Ma, Anirudra Paul, Martin Breugst and Daniel Seidel, *Chem. Eur. J.* **2016**, *22*, 18179–18189.
- 90 **“Decarboxylative Annulation of  $\alpha$ -Amino Acids with  $\gamma$ -Nitroaldehydes.”** YoungKu Kang and Daniel Seidel, *Org. Lett.* **2016**, *18*, 4277–4279.
- 89 **“Direct Formation of Oxocarbenium Ions under Weakly Acidic Conditions: Catalytic Enantioselective Oxa-Pictet–Spengler Reactions.”** Chenfei Zhao, Shawn B. Chen and Daniel Seidel, *J. Am. Chem. Soc.* **2016**, *138*, 9053–9056. ([highlighted in SYNFACTS, September 2016](#)) (This paper was listed as one of the journal’s [Top 20 most downloaded papers in July of 2016](#))
- 88 **“Stereochemically rich polycyclic amines from the kinetic resolution of indolines via intramolecular Povarov reactions.”** Chang Min and Daniel Seidel, *Chem. Eur. J.* **2016**, *22*, 10817–10820.
- 87 **“Redox-Annulation of Cyclic Amines and  $\beta$ -Ketoaldehydes.”** Weijie Chen and Daniel Seidel, *Org. Lett.* **2016**, *18*, 1024–1027. (This paper was listed as one of the journal’s [Top 20 most downloaded papers in February of 2016](#))
- 86 **“Synthesis of Chiral Cyclam Analogues.”** Chandra Kanta De, Anirudra Paul, Thomas J. Emge and Daniel Seidel, invited contribution for special issue in honor of Prof. Sessler’s 60<sup>th</sup> birthday, *Supramol. Chem.* **2016**, *28*, 168–175.
- 85 **“An Ugi Reaction Incorporating a Redox-Neutral Amine C–H Functionalization Step.”** Zhengbo Zhu and Daniel Seidel, *Org. Lett.* **2016**, *18*, 631–633. (This paper was listed as one of the journal’s [Top 20 most downloaded papers in January of 2016](#))
- 84 **“Asymmetric Redox-Annulation of Cyclic Amines.”** YoungKu Kang, Weijie Chen, Martin Breugst and Daniel Seidel, *J. Org. Chem.* **2015**, *80*, 9628–9640. (This paper was listed as one of the journal’s [Top 20 most downloaded papers in September of 2015](#))
- 83 **“Intramolecular Redox-Mannich Reactions: Facile Access to the Tetrahydroprotoberberine Core.”** Longle Ma and Daniel Seidel, *Chem. Eur. J.* **2015**, *21*, 12908–12913.
- 82 **“Fluoride-Assisted Activation of Calcium Carbide: A Simple Method for the Ethynylation of Aldehydes and Ketones.”** Abolfazl Hosseini, Daniel Seidel, Andreas Miska and Peter R. Schreiner, *Org. Lett.* **2015**, *17*, 2808–2811.
- 81 **“C–H Functionalization of Cyclic Amines: Redox-Annulations with  $\alpha,\beta$ -Unsaturated Carbonyl Compounds.”** YoungKu Kang, Matthew T. Richers, Conrad Sawicki and Daniel Seidel, *Chem. Commun.* **2015**, *51*, 10648–10651.
- 80 **“A Dual-Catalysis Anion-Binding Approach to the Kinetic Resolution of Amines: Insights into the Mechanism via a Combined Experimental and Computational Study.”** Nisha Mittal, Katharina M. Lippert, Chandra Kanta De, Eric G. Klauber, Thomas J. Emge, Peter R. Schreiner and Daniel Seidel, *J. Am. Chem. Soc.* **2015**, *137*, 5748–5758.
- 79 **“Catalytic Enantioselective Intramolecular Aza-Diels-Alder Reactions.”** Chang Min, Chih-Tsung Lin and Daniel Seidel, *Angew. Chem. Int. Ed.* **2015**, *54*, 6608–6612. ([highlighted in SYNFACTS, June 2015](#))

- 78 **“Enantioselective A<sup>3</sup> Reactions of Secondary Amines with a Cu(I)/Acid-Thiourea Catalyst Combination.”** Chenfei Zhao and Daniel Seidel, *J. Am. Chem. Soc.* **2015**, *137*, 4650–4653. (This paper was listed as one of the journal’s [Top 20 most downloaded papers in April of 2015](#))
- 77 **“The Azomethine Ylide Route to Amine C–H Functionalization: Redox-Versions of Classic Reactions and a Pathway to New Transformations.”** Daniel Seidel, *Acc. Chem. Res.* **2015**, *48*, 317–328.
- 76 **“The Rügheimer-Burrows reaction revisited: Facile preparation of 4-alkylisoquinolines and 3,5-dialkylpyridines from (partially) saturated amines.”** Alena Yu. Platonova and Daniel Seidel, invited contribution for Harry Wasserman Commemorative Issue, *Tetrahedron Lett.* **2015**, *56*, 3147–3150.
- 75 **“Intramolecular [3+2]-Cycloadditions of Azomethine Ylides Derived from Secondary Amines via Redox-Neutral C–H Functionalization.”** Kempegowda Mantelingu, Yingfu Lin and Daniel Seidel, *Org. Lett.* **2014**, *16*, 5910–5913. (This paper was listed as one of the journal’s [Top 20 most downloaded papers in November of 2014](#))
- 74 **“Redox-Neutral  $\alpha$ -Sulfonylation of Secondary Amines: Ring-Fused N,S-Acetals.”** Claire L. Jarvis, Matthew T. Richers, Martin Breugst, K. N. Houk and Daniel Seidel, *Org. Lett.* **2014**, *16*, 3556–3559. (This paper was listed as one of the journal’s [Top 20 most downloaded papers in June of 2014](#))
- 73 **“The Redox-Mannich Reaction.”** Weijie Chen and Daniel Seidel, *Org. Lett.* **2014**, *16*, 3158–3161. (This paper was listed as one of the journal’s [Top 20 most downloaded papers in May of 2014](#))
- 72 **“Dual C–H Functionalization of N-Aryl Amines: Synthesis of Polycyclic Amines via an Oxidative Povarov Approach.”** Chang Min, Abbas Sanchawala and Daniel Seidel, *Org. Lett.* **2014**, *16*, 2756–2759. ([highlighted in SYNFACTS, July 2014](#)) (This paper was listed as one of the journal’s [Top 20 most downloaded papers in May of 2014](#))
- 71 **“C–H Bond Functionalization through Intramolecular Hydride Transfer.”** Michael Haibach and Daniel Seidel, *Angew. Chem. Int. Ed.* **2014**, *53*, 5010–5036.
- 70 **“Redox-Neutral  $\alpha$ -Oxygenation of Amines: Reaction Development and Elucidation of the Mechanism.”** Matthew T. Richers, Martin Breugst, Alena Yu. Platonova, Anja Ullrich, Arne Dieckmann, K. N. Houk and Daniel Seidel, *J. Am. Chem. Soc.* **2014**, *136*, 6123–6135.
- 69 **“Redox-Neutral  $\alpha,\beta$ -Difunctionalization of Amines.”** Weijie Chen, YoungKu Kang, Richard G. Wilde and Daniel Seidel, *Angew. Chem. Int. Ed.* **2014**, *53*, 5179–5182.
- 68 **“The Redox-A<sup>3</sup> Reaction.”** Daniel Seidel, *Org. Chem. Front.* **2014**, *1*, 426–429.
- 67 **“The Anion-Binding Approach to Catalytic Enantioselective Acyl-Transfer.”** Daniel Seidel, *Synlett*, **2014**, *25*, 783–794.
- 66 **“Conjugate-Base-Stabilized Brønsted Acids: Enantioselective Pictet-Spengler Reactions with Unmodified Tryptamine.”** Nisha Mittal, Diana X. Sun and Daniel Seidel, *Org. Lett.* **2014**, *16*, 1012–1015.
- 65 **“Redox-Neutral  $\alpha$ -Arylation of Amines.”** Weijie Chen, Richard G. Wilde and Daniel Seidel, *Org. Lett.* **2014**, *16*, 730–732. (This paper was listed as one of the journal’s [Top 20 most downloaded papers in December of 2013](#))
- 64 **“Conjugate-Base-Stabilized Brønsted Acids as Asymmetric Catalysts: Enantioselective Povarov Reactions with Secondary Aromatic Amines.”** Chang Min, Nisha Mittal, Diana X. Sun and Daniel Seidel, *Angew. Chem. Int. Ed.* **2013**, *52*, 14084–14088. ([highlighted in SYNFACTS, February 2014](#))
- 63 **“Redox-Neutral  $\alpha$ -C–H Bond Functionalization of Secondary Amines with Concurrent C–P Bond Formation/N-Alkylation.”** Deepankar Das and Daniel Seidel, *Org. Lett.* **2013**, *15*, 4358–4361.
- 62 **“Selective Copper (II) Acetate and Potassium Iodide Catalyzed Oxidation of Amins to Dihydroquinazoline and Quinazolinone Alkaloids.”** Matthew T. Richers, Chenfei Zhao and Daniel Seidel, invited Article for *Beilstein J. Org. Chem.* **2013**, *9*, 1194–1201.
- 61 **“Facile Access to Ring-Fused Amins via Direct  $\alpha$ -Amination of Secondary Amines with ortho-Aminobenzaldehydes. Synthesis of Vasicine, Deoxyvasicine, Deoxyvasicinone, Mackinazolinone**

- and Ruteacarpine.** Matthew T. Richers, Indubhusan Deb, Alena Yu. Platonova, Chen Zhang and Daniel Seidel, Invited Feature Article, *Synthesis* **2013**, *45*, 1730–1748.
- 60 **“Metal-free  $\alpha$ -Amination of Secondary Amines: Computational and Experimental Evidence for Azaquinone Methide and Azomethine Ylide Intermediates.”** Arne Dieckmann, Matthew T. Richers, Alena Yu. Platonova, Chen Zhang, Daniel Seidel and K. N. Houk, *J. Org. Chem.* **2013**, *78*, 4132–4144. (This paper was listed as one of the journal’s **Top 20 most downloaded papers in April of 2013**)
- 59 **“Redox-Neutral Copper (II) Carboxylate Catalyzed  $\alpha$ -Alkynylation of Amines.”** Deepankar Das, Aaron X. Sun and Daniel Seidel, *Angew. Chem. Int. Ed.* **2013**, *52*, 3765–3769. (**Chosen as a "Hot Paper" by the Editors for its importance in a rapidly evolving field of high current interest**)
- 58 **“Synthesis of Scalemic Amides by Kinetic Resolution.”** Daniel Seidel, invited contribution for *Science of Synthesis, Volume 21*, **2012**, 427–443.
- 57 **“A Dual-Catalysis Approach to the Kinetic Resolution of 1,2-diaryl-1,2-diaminoethanes.”** Chang Min, Nisha Mittal, Chandra Kanta De and Daniel Seidel, *Chem. Commun.* **2012**, *48*, 10853–10855.
- 56 **“Redox-Neutral  $\alpha$ -Cyanation of Amines.”** Longle Ma, Weijie Chen and Daniel Seidel, *J. Am. Chem. Soc.* **2012**, *134*, 15305–15308. (This paper was listed as one of the journal’s **Top 20 most downloaded papers in September of 2012**)
- 55 **“Kinetic Resolution of Amines via Dual-Catalysis: Remarkable Dependence of Selectivity on the Achiral Cocatalyst.”** Nisha Mittal, Diana X. Sun and Daniel Seidel, *Org. Lett.* **2012**, *14*, 3084–3087.
- 54 **“*o*-Aminobenzaldehyde, Redox-Neutral Amino Formation and Synthesis of Deoxyvasicinone.”** Chen Zhang, Chandra Kanta De and Daniel Seidel, *Org. Synth.* **2012**, *89*, 274–282.
- 53 **“The Decarboxylative Strecker Reaction.”** Deepankar Das, Matthew T. Richers, Longle Ma and Daniel Seidel, *Org. Lett.* **2011**, *13*, 6584–6587. (This paper was listed as one of the journal’s **Top 20 most downloaded papers in November of 2011**)
- 52 **“A Dual Catalysis Approach to the Asymmetric Steglich Rearrangement and Catalytic Enantioselective Addition of *O*-Acylated Azlactones to Isoquinolines.”** Chandra Kanta De, Nisha Mittal and Daniel Seidel, *J. Am. Chem. Soc.* **2011**, *133*, 16802–16805. (**highlighted in SYNFACTS, December 2011**)
- 51 **“Catalytic Enantioselective Desymmetrization of *meso*-Diamines: A Dual Small-Molecule Catalysis Approach.”** Chandra Kanta De and Daniel Seidel, *J. Am. Chem. Soc.* **2011**, *133*, 14538–14541. (**highlighted in SYNFACTS, November 2011**)
- 50 **“Divergent Reactions of Indoles with Aminobenzaldehydes: Indole Ring Opening vs. Annulation and Facile Synthesis of Neocryptolepine.”** Matthew K. Vecchione, Aaron X. Sun and Daniel Seidel, *Chem. Sci.* **2011**, *2*, 2178–2181. (**highlighted on the Chemical Science blog, August 19, 2011**)
- 49 **“Origins of Enantioselectivity in Proline Catalyzed Friedländer Condensations of 4-substituted Cyclohexanones.”** Le Li and Daniel Seidel, *Synthesis* **2011**, 1853–1858.
- 48 **“Decarboxylative Formation of *N*-Alkyl Pyrroles From 4-Hydroxyproline.”** Indubhusan Deb, Daniel Coiro and Daniel Seidel, *Chem. Commun.* **2011**, *47*, 6473–6475.
- 47 **“A Dual Catalysis/Anion Binding Approach to the Kinetic Resolution of Allylic Amines.”** Eric G. Klauber, Nisha Mittal, Tejas K. Shah and Daniel Seidel, *Org. Lett.* **2011**, *13*, 2464–2467. (**highlighted in SYNFACTS, June 2011**)
- 46 **“Gadolinium triflate.”** Deepankar Das and Daniel Seidel, invited contribution for *EROS (Encyclopedia of Reagents for Organic Synthesis)*, published March 15, **2011**, DOI: 10.1002/047084289X.rn01253
- 45 **“Redox-Neutral Indole Annulation Cascades.”** Michael Haibach, Indubhusan Deb, Chandra Kanta De and Daniel Seidel, *J. Am. Chem. Soc.* **2011**, *133*, 2100–2103. (**highlighted in SYNFACTS, April 2011**) (This paper was listed as one of the journal’s **Top 20 most downloaded papers** in February of 2011)
- 44 **“Redox Isomerization via Azomethine Ylide Intermediates: *N*-Alkyl Indoles From Indolines.”** Indubhusan Deb, Deepankar Das and Daniel Seidel, *Org. Lett.* **2011**, *13*, 812–815.



- 43 “Azomethine Ylide Annulations: Facile Access to Polycyclic Ring Systems.” Chen Zhang, Deepankar Das and Daniel Seidel, *Chem. Sci.* **2011**, 2, 233–236.
- 42 “Catalytic Enantioselective Friedländer Condensations: Facile Access to Quinolines with Remote Stereogenic Centers.” Le Li and Daniel Seidel, *Org. Lett.* **2010**, 12, 5064–5067.
- 41 “Merging Nucleophilic and Hydrogen Bonding Catalysis: An Anion Binding Approach to the Kinetic Resolution of Propargylic Amines.” Eric G. Klauber, Chandra Kanta De, Tejas K. Shah and Daniel Seidel, *J. Am. Chem. Soc.* **2010**, 132, 13624–13626. (highlighted in SYNFACTS, December 2010) (This paper was listed as one of the journal’s Top 20 most downloaded papers in September of 2010)
- 40 Invited book review: “Cinchona Alkaloids in Synthesis & Catalysis: Ligands, Immobilization and Organocatalysis.” Daniel Seidel, *J. Am. Chem. Soc.* **2010**, 132, 8224.
- 39 “Catalytic Enantioselective Aldol Additions of  $\alpha$ -Isothiocyanato Imides to  $\alpha$ -Ketoesters.” Matthew K. Vecchione, Le Li and Daniel Seidel, *Chem. Commun.* **2010**, 4604–4606.
- 38 “Retro-Claisen Condensation vs. Pyrrole Formation in Reactions of Amines and 1,3-Diketones.” Indubhusan Deb and Daniel Seidel, *Tetrahedron Lett.* **2010**, 51, 2945–2947.
- 37 “Nontraditional Reactions of Azomethine Ylides: Decarboxylative Three-Component Couplings of  $\alpha$ -Amino Acids.” Chen Zhang and Daniel Seidel, *J. Am. Chem. Soc.* **2010**, 132, 1798–1799. (This paper was listed as one of the journal’s Top 20 most downloaded papers in January of 2010)
- 36 “Merging Nucleophilic and Hydrogen Bonding Catalysis: An Anion Binding Approach to the Kinetic Resolution of Amines.” Chandra Kanta De, Eric G. Klauber and Daniel Seidel, *J. Am. Chem. Soc.* **2009**, 131, 17060–17061. (highlighted in C&E News, November 2009) (highlighted in SYNFACTS, January 2010) (This paper was listed as one of the journal’s Top 20 most downloaded papers in November of 2009)
- 35 “Facile Synthesis of a Chiral Urea Bridged Bisoxazoline Ligand and Structural Characterization of its Bis-Copper(II)-Chloride Complex” Rudrajit Mal, Nisha Mittal, Thomas J. Emge and Daniel Seidel, *Chem. Commun.* **2009**, 7309–7311.
- 34 “Catalytic Enantioselective Intramolecular Redox Reactions: Ring-Fused Tetrahydroquinolines.” Sandip Murarka, Indubhusan Deb, Chen Zhang and Daniel Seidel, *J. Am. Chem. Soc.* **2009**, 131, 13226–13227. (highlighted in SYNFORM, November 2009) (highlighted in SYNFACTS, December 2009)
- 33 “Catalytic Enantioselective Synthesis of  $\alpha,\beta$ -Diamino Acid Derivatives.” Le Li, Madhu Ganesh and Daniel Seidel, *J. Am. Chem. Soc.* **2009**, 131, 11648–11649. (highlighted in SYNFACTS, October 2009) (part of the JACS SELECT issue 7, December 2009)
- 32 “Lewis Acid Catalyzed Formation of Tetrahydroquinolines via an Intramolecular Redox Process.” Sandip Murarka, Chen Zhang, Marlena D. Konieczynska and Daniel Seidel, *Org. Lett.* **2009**, 11, 129–132. (highlighted in SYNFACTS, April 2009)
- 31 “Facile Formation of Cyclic Amins Through a Brønsted Acid Promoted Redox Process.” Chen Zhang, Sandip Murarka and Daniel Seidel, *J. Org. Chem.* **2009**, 74, 419–422.
- 30 “Catalytic Enantioselective Additions of Indoles to Nitroalkenes.” Madhu Ganesh and Daniel Seidel *J. Am. Chem. Soc.* **2008**, 130, 16464–16465. (highlighted in SYNFACTS, February 2009)
- 29 “Catalytic Enantioselective Aldol Additions of  $\alpha$ -Isothiocyanato Imides to Aldehydes.” Le Li, Eric G. Klauber, and Daniel Seidel *J. Am. Chem. Soc.* **2008**, 130, 12248–12249. (highlighted as “SYNFACT of the month,” November 2008)
- 28 “ $\alpha$ -Amination of Nitrogen Heterocycles: Ring Fused Amins.” Chen Zhang, Chandra Kanta De, Rudrajit Mal and Daniel Seidel *J. Am. Chem. Soc.* **2008**, 130, 416–417.
- 27 “Scope and Mechanism of Enantioselective Michael Additions of 1,3-Dicarbonyl Compounds to Nitroalkenes Catalyzed by Nickel(II)-Diamine Complexes.” David A. Evans, Shizue Mito and Daniel Seidel *J. Am. Chem. Soc.* **2007**, 129, 11583–11592.

- 26 **“Redox Behavior of Cyclo[6]pyrrole in the Formation of a Uranyl Complex.”** Patricia J. Melfi, Sung Kuk Kim, Jeong Tae Lee, Frederic Bolze, Daniel Seidel, Vincent M. Lynch, Jacqueline M. Veauthier, Andrew J. Gaunt, Mary P. Neu, Zhongping Ou, Karl M. Kadish, Shunichi Fukuzumi, Kei Ohkubo and Jonathan L. Sessler *Inorg. Chem.* **2007**, *46*, 5143–5145.
- 25 **“Nonlinear Optical Properties and Excited-State Dynamics of Highly Symmetric Expanded Porphyrins.”** Zin Seok Yoon, Jung Ho Kwon, Min-Chul Yoon, Mi Kyoung Koh, Su Bum Noh, Jonathan L. Sessler, Jeong Tae Lee, Daniel Seidel, Apolonio Aguilar, Soji Shimizu, Masaaki Suzuki, Atsuhiko Osuka and Dongho Kim *J. Am. Chem. Soc.* **2006**, *128*, 14128–14134.
- 24 **“Ni(II)-bis[(R,R)-N,N'-Dibenzylcyclohexane-1,2-diamine]Br<sub>2</sub> Catalyzed Enantioselective Michael Additions of 1,3-Dicarbonyl Compounds to Conjugated Nitroalkenes.”** David A. Evans and Daniel Seidel *J. Am. Chem. Soc.* **2005**, *127*, 9958–9959. (**highlighted in SYNFACTS, November 2005**)
- 23 **“Electronic Structure, Spectra, and Magnetic Circular Dichroism of Cyclohexa-, Cyclohepta-, and Cyclooctapyrrole.”** Alexander Gorski, Thomas Köhler, Daniel Seidel, Jeong Tae Lee, Grazyna Orzanowska, Jacek Waluk and Jonathan L. Sessler *Chem. Eur. J.* **2005**, *11*, 4179–4184.
- 22 **“Straightforward synthesis of sulfur bridged oligopyrrolic macrocycles.”** David Sanchez-Garcia, Thomas Köhler, Daniel Seidel, Vincent Lynch and Jonathan L. Sessler *Chem. Commun.* **2005**, 2122–2124.
- 21 **“Facile Syntheses of Quater-, Penta-, and Sexipyrroles.”** Jonathan L. Sessler, Apolonio Aguilar, David Sanchez-Garcia, Daniel Seidel, Thomas Köhler, Forrest Arp, and Vincent Lynch *Org. Lett.* **2005**, *7*, 1887–1890.
- 20 **“Reductive Per-N-alkylation of Cyclo[8]pyrroles.”** Thomas Köhler, Zhongping Ou, Jeong Tae Lee, Daniel Seidel, Vincent Lynch, Karl M. Kadish and Jonathan L. Sessler *Angew. Chem. Int. Ed.* **2005**, *44*, 83–87.
- 19 **“Hexaphyrin(1.0.1.0.0.0). A new colorimetric actinide sensor.”** Jonathan L. Sessler, Patricia J. Melfi, Daniel Seidel, Anne E. V. Gorden, Doris K. Ford, Philip D. Palmerb and C. Drew Tait *Tetrahedron* **2004**, *60*, 11089–11097.
- 18 **“Octaethylporphyrin and Expanded Porphyrin Complexes Containing Coordinated BF<sub>2</sub> Groups.”** Thomas Köhler, Michael C. Hodgson, Daniel Seidel, Jacqueline M. Veauthier, Sylvie Meyer, Vincent Lynch, Peter D. W. Boyd, Penelope J. Brothers and Jonathan L. Sessler *Chem. Commun.* **2004**, 1060–1061.
- 17 **“A New Copper Acetate-Bis(oxazoline)-Catalyzed, Enantioselective Henry Reaction.”** David A. Evans, Daniel Seidel, Magnus Rueping, Hon Wai Lam, Jared T. Shaw and C. Wade Downey *J. Am. Chem. Soc.* **2003**, *125*, 12692–12693.
- 16 **“Synthetic Expanded Porphyrin Chemistry.”** Jonathan L. Sessler and Daniel Seidel *Angew. Chem. Int. Ed.* **2003**, *42*, 5134–5175.
- 15 **“Formation and Properties of Cyclo[6]pyrrole and Cyclo[7]pyrrole.”** Thomas Köhler, Daniel Seidel, Vincent Lynch, Forrest O. Arp, Zhongping Ou, Karl M. Kadish and Jonathan L. Sessler *J. Am. Chem. Soc.* **2003**, *125*, 6872–6873.
- 14 **“Characterization of the Interactions Between Neptunyl and Plutonyl Cations and Expanded Porphyrins.”** Jonathan L. Sessler, Anne E. V. Gorden, Daniel Seidel, Sharon Hannah, Vincent Lynch, Pamela L. Gordon, Robert J. Donahoe, C. Drew Tait and D. Webster Keogh *Inorg. Chim. Acta.* **2002**, *341*, 54–70.
- 13 **“Cyclo[8]pyrrole: A Simple-to-Make Expanded Porphyrin with No Meso Bridges.”** Daniel Seidel, Jonathan L. Sessler and Vincent Lynch *Angew. Chem. Int. Ed.* **2002**, *41*, 1422–1425. (**highlighted on the cover and in C&E News**)
- 12 **“[30]Heptaphyrin(1.1.1.1.1.0.0): An Aromatic Expanded Porphyrin with a ‘Figure Eight’ Like Structure.”** Christophe Bucher, Daniel Seidel, Vincent Lynch and Jonathan L. Sessler *Chem. Commun.* **2002**, 328–329.

- 11 **“Dioxa-[40]decaphyrin(1.0.1.0.0.1.0.1.0.0): An Analogue of Turcasarin with a ‘Figure-Eight’ Structure.”** Jonathan L. Sessler, Daniel Seidel, Andreas Gebauer, Vincent Lynch and Khalil A. Abboud *J. Heterocycl. Chem.* **2001**, *38*, 1419–1424.
- 10 **“New Chemistry of Amethyrin.”** Sharon Hannah, Daniel Seidel, Vincent Lynch and Jonathan L. Sessler *Inorg. Chim. Acta* **2001**, *317*, 211–217.
- 09 **“Novel, Terpyrrole-Containing, Aromatic Expanded Porphyrins.”** Jonathan L. Sessler, Daniel Seidel, Christophe Bucher, and Vincent Lynch *Tetrahedron* **2001**, *57*, 3743–3752.
- 08 **“Hexaphyrin(1.0.1.0.0.0): An Expanded Porphyrin Ligand for the Actinide Cations Uranyl (UO<sub>2</sub><sup>2+</sup>) and Neptunyl (NpO<sub>2</sub><sup>+</sup>).”** Jonathan L. Sessler, Daniel Seidel, Anne E. Vivian, Vincent Lynch, Brian L. Scott and D. Webster Keogh *Angew. Chem. Int. Ed.* **2001**, *40*, 591–594. ([highlighted in C&E News](#))
- 07 **“Actinide Complexes of Expanded Porphyrins.”** Jonathan L. Sessler, Anne E. Vivian, Daniel Seidel, Anthony K. Burrell, Michael Hoehner, Tarak D. Mody, Andreas Gebauer, Steven J. Weghorn and Vincent Lynch *Coord. Chem. Rev.* **2001**, *216-217*, 411–434.
- 06 **“Novel Synthesis of Hybrid Calixphyrin Macrocycles.”** Christophe Bucher, Daniel Seidel, Vincent Lynch, Vladimir Král and Jonathan L. Sessler *Org. Lett.* **2000**, *2*, 3103–3106.
- 05 **“[26]Hexaphyrin(1.1.1.1.0.0): an All-Aza Isomer of RUBYRIN with an Inverted Pyrrole Subunit.”** Jonathan L. Sessler, Daniel Seidel, Christophe Bucher and Vincent Lynch *Chem. Commun.* **2000**, 1473–1474.
- 04 **“Calixphyrins: Novel Macrocycles at the Intersection Between Porphyrins and Calixpyrroles.”** Vladimir Král, Jonathan L. Sessler, Rebecca S. Zimmerman, Daniel Seidel, Vincent Lynch and Bruno Andrioletti *Angew. Chem. Int. Ed.* **2000**, *39*, 1055–1058.
- 03 **“An Unusual Metal-Mediated Formation of an Asymmetrical Carboxylate-Bridged Dinuclear Copper(II) Complex.”** Heike Keutel, Daniel Seidel, Martin Klussmann and Helmar Görls *Inorg. Chem.* **2000**, *39*, 1608–1610.
- 02 **“Expanded Porphyrins. Synthetic Materials with Potential Medical Utility.”** Jonathan L. Sessler, Nicolai A. Tvermoes, Julian Davis, Pavel Anzenbacher, Jr., Karolina Jursíková, Wataru Satoh, Daniel Seidel, Vincent Lynch, Chris B. Black, Andrew Try, Bruno Andrioletti, Greg Hemmi, Tarak D. Mody, Darren J. Magda, Kathryn Woodburn, Richard A. Miller and Vladimír Král *Pure Appl. Chem.* **1999**, *71*, 2009–2018.
- 01 **“Synthesis of [28]Heptaphyrin(1.0.0.1.0.0.0) and [32]Octaphyrin(1.0.0.0.1.0.0.0) via a Directed Oxidative Ring Closure: The First Expanded Porphyrins Containing a Quaterpyrrole Subunit.”** Jonathan L. Sessler, Daniel Seidel and Vincent Lynch *J. Am. Chem. Soc.* **1999**, *121*, 11257–11258.

## PATENTS

- 01 **“Method for the preparation of cyclo[n]pyrroles via an oxidative coupling procedure.”** Jonathan L. Sessler, Daniel Seidel, Frederic R. Bolze, Thomas Köhler, U.S. Patent No. 6,984,734; Issue date: Jan 10, **2006**, 47 pages.

## PRESENTATIONS

Novartis Basel, Switzerland, May 17, **2017** – Invited lecture  
 Novartis Shanghai, China, March 23, **2017** – Invited lecture  
 Novartis Changshu, China, March 22, **2017** – Invited lecture  
 University of California Riverside, January 18, **2017** – Invited lecture  
 Novartis Boston, November 8, **2016** – Invited lecture  
 9<sup>th</sup> Tripartite Meeting, Maresias, Sao Palo, Brazil, October 30 – November 2, **2016** – Invited lecture  
 ACS Northeast Regional Meeting, Binghamton University, October 5–8, **2016** – Invited lecture  
 University of Rhode Island, October 3, **2016** – Invited lecture  
 The Ohio State University, May 3, **2016** – Invited lecture  
 University of Würzburg, Germany, April 28, **2016** – Invited lecture  
 University of Florida, April 14, **2016** – Invited lecture  
 251st ACS National Meeting, San Diego, March 13–17, **2016** – Invited lecture  
 University of Oldenburg, Germany, February 3, **2016** – Invited lecture  
 Organocatalysis Symposium, Pacifichem, Honolulu, December 18, **2015** – Invited lecture  
 Rutgers Newark, December 4, **2015** – Invited lecture  
 Binghamton University, September 11, **2015** – Invited lecture  
 Boston University, December 18, **2014** – Invited lecture  
 Nagoya University, Japan, December 5, **2014** – Invited lecture  
 Kyoto University, Japan, December 4, **2014** – Invited lecture  
 Osaka University, Japan, December 3, **2014** – Invited lecture  
 Tokyo Institute of Technology, Japan, December 2, **2014** – Invited lecture  
 Keio University, Tokyo, Japan, December 1, **2014** – Invited lecture  
 Tohoku University, Sendai, Japan, November 28, **2014** – Invited lecture  
 University of Tokyo, Japan, November 27, **2014** – Invited lecture  
 Gakushuin University, Tokyo, Japan, November 26, **2014** – Invited lecture  
 Tokyo University of Agriculture and Technology, Japan, November 25, **2014** – Invited lecture  
 2nd International Conference on Organocatalysis, Tokyo, Japan, November 20–22, **2014** – Keynote lecture  
 Rikkyo University, Tokyo, Japan, November 20, **2014** – Invited lecture  
 University of Wuhan, China, October 23, **2014** – Invited lecture  
 6th International Forum on Homogeneous Catalysis, Shanghai, China, October 19–22, **2014** – Keynote lecture  
 University of Göttingen, Germany, July 18, **2014** – Invited lecture  
 University of Basel, Switzerland, June 20, **2014** – Invited lecture  
 Université Claude Bernard-Lyon 1, France, June 5, **2014** – Invited lecture  
 Ludwig-Maximilians-Universität München, Germany, May 19, **2014** – Invited lecture  
 Technische Universität Berlin, Germany, May 15, **2014** – Invited lecture  
 University of Oregon, February 21, **2014** – Invited lecture  
 Oregon State University, February 20, **2014** – Invited lecture  
 Colorado State University, February 10, **2014** – Lilly Distinguished Speaker  
 University of Texas at Austin, January 31, **2014** – Sessler Alumni Lecture  
 Institut de Chimie des Substances Naturelles CNRS, France, July 18, **2013** – Invited lecture  
 University of Versailles, France, July 17, **2013** – Invited lecture  
 Technical University of Denmark, June 28, **2013** – Invited lecture  
 Lundbeck, Copenhagen, Denmark, June 27, **2013** – Invited lecture  
 University of Marburg, Germany, June 24, **2013** – Invited lecture  
 BASF, Ludwigshafen, Germany, May 28, **2013** – Invited lecture  
 RWTH Aachen University, Germany, May 16, **2013** – Invited lecture  
 University of Giessen, Germany, May 14, **2013** – Invited lecture  
 Catalysis and Sensing for Our Environment (CASE) 2013 Conference, Austin, April 11–13, **2013** – Invited lecture  
 1st Japan-USA Organocatalysis Symposium, Honolulu, December 15–19, **2012** – Invited lecture  
 Washington University in St. Louis, October 4, **2012** – Invited lecture  
 University of Waterloo, Canada, September 7, **2012** – Invited lecture  
 National University of Singapore, Singapore, August 2, **2012** – Invited lecture  
 Nanyang Technological University, Singapore, August 1, **2012** – Invited lecture  
 2nd International Conference on Molecular and Functional Catalysis, Singapore, July 31, **2012** – Invited lecture  
 Shanghai Jiao Tong University, China, May 8, **2012** – Invited lecture  
 East China University of Science and Technology, China, May 8, **2012** – Invited lecture



Shanghai Institute of Organic Chemistry, China, May 7, **2012** – Invited lecture  
Chiral Quest, Suzhou, China, May 6, **2012** – Invited lecture  
Jilin University, China, May 3, **2012** – Invited lecture  
University of Cologne, Germany, March 12, **2012** – Invited lecture  
RWTH Aachen University, Germany, March 9, **2012** – Invited lecture  
Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr, Germany, March 8, **2012** – Invited lecture  
University of Münster, Germany, March 7, **2012** – Invited lecture  
Chemiedozententagung of the German Chemical Society, Freiburg, Germany, March 5, **2012** – Award lecture  
University of Miami, December 9, **2011** – Invited lecture  
The Ohio State University, November 3, **2011** – Invited lecture  
Temple University, October 27, **2011** – Invited lecture  
Amgen Young Investigator Award Symposium, October 4, **2011** – Award lecture  
GRC: *Organic Reactions & Processes*, Bryant University, July 17–22, **2011** – Poster  
Indiana University-Purdue University Indianapolis, April 27, **2011** – Invited lecture  
City College of New York, February 7, **2011** – Invited lecture  
Emory University, January 26, **2011** – Invited lecture  
Vanderbilt University, January 24, **2011** – Invited lecture  
Organic and Bioorganic Chemistry Symposium in honor of Prof. S. Knapp, January 14, **2011**, – Invited lecture  
Merck & Co., Kenilworth, December 8, **2010** – Invited lecture  
Molecular Design and Synthesis Award Symposium for Prof. D. A. Evans, November 17, **2010** – Invited lecture  
Scripps Research Institute, October 22, **2010** – Invited lecture  
California Institute of Technology, October 20, **2010** – Invited lecture  
Dartmouth College, October 7, **2010** – Invited lecture  
Rutgers University, September 21, **2010**, – Departmental Seminar  
University of Missouri at Columbia, September 10, **2010** – Invited lecture  
GRC: *Stereochemistry*, Salve Regina University, August 1–6, **2010** – Invited chalk talk  
22nd International Symposium on Chirality, Sapporo, Japan, July 12–15, **2010** – Keynote lecture  
93rd CSC conference, Toronto, Canada, May 29 – June 2, **2010** – Invited lecture  
University of California at Santa Barbara, May 28, **2010** – Invited lecture  
University of California at Los Angeles, May 27, **2010** – Invited lecture  
University of California at Irvine, May 26, **2010** – Invited lecture  
Bristol-Myers Squibb, Lawrenceville/Hopewell, May 19, **2010** – Invited lecture  
University of Pennsylvania, May 10, **2010** – Invited lecture  
New Jersey Biotechnology Chemistry Consortium, Cranbury, NJ, May 3, **2010** – Invited lecture  
Brooklyn College, CUNY, April 30, **2010** – Invited lecture  
Kean University, April 20, **2010** – Invited lecture  
Queens College, CUNY, April 19, **2010** – Invited lecture  
University of Texas at Austin, April 16, **2010** – Invited lecture  
University of California at Berkeley, April 6, **2010** – Invited lecture  
University of South Carolina, October 29, **2009** – Invited lecture  
University of North Carolina at Chapel Hill, October 15, **2009** – Invited lecture  
Rochester University, October 2, **2009** – Invited lecture  
University at Buffalo, September 30, **2009** – Invited lecture  
Syracuse University, September 29, **2009** – Invited lecture  
University of New Mexico, September 4, **2009** – Invited lecture  
GRC: *Organic Reactions & Processes*, Bryant University, July 19–24, **2009** – Short Talk  
GRC: *Heterocyclic Compounds*, Salve Regina University, June 28 – July 3, **2009** – Poster  
Lilly Research Laboratories, Indianapolis, June 16, **2009** – Invited lecture  
NSF workshop, Gold Lake, Colorado, June 4–7, **2009** – Invited chalk talk  
West Virginia University, April 22, **2009** – Invited lecture  
Merck & Co., Rahway, April 15, **2009** – Invited lecture  
New York University, April 7, **2009** – Invited lecture  
Gettysburg College, February 11, **2009** – Invited lecture  
Rider University, February 10, **2009** – Invited lecture  
GRC: *Stereochemistry*, Salve Regina University, July 27 – August 1, **2008** – Poster  
GRC: *Heterocyclic Compounds*, Salve Regina University, June 15–20, **2008** – Poster