

Maxime A. Siegler

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PERSONAL

French citizen

EDUCATION

Ph.D., Physical Chemistry

University of Kentucky, Lexington, KY, 2007

Advisor: Prof. Carolyn P. Brock

Thesis: Polymorphism of four enantiotropic crystalline systems containing Ni(II), H₂O, 15-crown-5 and NO₃⁻. [Link](#)

B.S., Science of Engineering

Minor in Chemistry

Hautes Études d'Ingénieur, Lille, France, 2002

RESEARCH INTERESTS

Small molecule X-ray crystallography, polymorphism, solid-state phase transitions, high-Z' structures, disorder, twinning

AWARDS

Kentucky Opportunity Fellowship
University of Kentucky

July 2006 – June 2007

Outstanding Research Award
Chemistry Department, University of Kentucky

April 2006

Fast Start Award
Chemistry Department, University of Kentucky

April 2004

PROFESSIONAL EXPERIENCE

Postdoctoral Researcher

October 2007 - present

Small Molecule Service Crystallography, Utrecht University, The Netherlands

Supervisor: Prof. Anthony L. Spek

- Collect data and determine crystal structures of organic, organometallic and coordination compounds.
- Collaborate with regional chemists by understanding their research needs, and interpreting and communicating the results in an efficient and effective manner.
- Publish research articles in scientific journals.
- Conduct personal research projects.

PUBLICATIONS (see Comprehensive Publication List)

CONFERENCE TALKS

- *Primary*

[Ni(MeCN)(H₂O)₂(NO₃)₂](15-crown-5)·MeCN: another polymorphic system with an intermediate, high-Z' phase

July 2007

M. A. Siegler, S. Parkin, C. P. Brock

American Crystallographic Association Meeting, Salt Lake City, UT, USA. [Link](#)

The unpredictable intermediate high-Z' phases in the polymorphic systems

June 2007

[Ni(H₂O)₆](NO₃)₂·(15-crown-5)·2H₂O (PS 1) and [Ni(MeCN)(H₂O)₂(NO₃)₂](15-crown-5)·MeCN (PS2)

M. A. Siegler, X. Hao, S. Parkin, C. P. Brock

Midwest Organic Solid State Chemistry Symposium XVII, Lexington, KY, USA

[Ni(H₂O)₆](NO₃)₂·(15-crown-5)·2H₂O: an uncommon polymorphic system

July 2006

M. A. Siegler, X. Hao, S. Parkin, C. P. Brock

American Crystallographic Association Meeting, Honolulu, HI, USA. [Link](#)

- *Secondary*

- Novel (PCN) Pd(II) pincer complexes: synthesis, structural characterization, reactivity and study of their Lewis acidity July 2008
J. Li, M. Lutz, M. Siegler, R. J. M. Klein Gebbink, G. van Koten
23rd International Conference on Organometallic Chemistry, Rennes, France
- An unexpected co-crystal with a variable degree of order: 1:1 *rac*-1,2-cyclohexanediol/triphenylphosphine oxide June 2008
C. P. Brock, M. A. Siegler, Y. Fu, G. H. Simpson, D. P. King, S. Parkin
American Crystallographic Association Meeting, Knoxville, TN, USA.
- Detailed Studies of the Low-Temperature Phase Transitions in $[\text{Ni}(\text{H}_2\text{O})_6](\text{NO}_3)_2 \cdot (15\text{-crown-5}) \cdot n\text{H}_2\text{O}$, $n = 1$ and 2 July 2007
C. P. Brock, M. A. Siegler, S. Parkin
American Crystallographic Association Meeting, Salt Lake City, UT, USA. [Link](#)
- Phase sequences in some crystals containing $\text{M}(\text{NO}_3)_2$, water, 15-crown-5 April 2007
C. P. Brock, M. A. Siegler, X. Hao, S. Parkin
British Crystallographic Association Meeting, Cambridge, UK
- The many crystal forms of $[\text{M}(15\text{-crown-5})(\text{H}_2\text{O})_2](\text{NO}_3)_2$ August 2005
C. P. Brock, X. Hao, M. A. Siegler, S. Parkin
XX Congress of the International Union of Crystallography, Florence, Italy. [Link](#)

TEACHING

- Teaching Assistant**, Physical Chemistry Laboratory January – May 2006
Department of Chemistry, University of Kentucky August – December 2005
January – May 2005
- Teaching Assistant**, General Chemistry Laboratory August – December 2004
Department of Chemistry, University of Kentucky January – May 2004
August – December 2003

AFFILIATION

- American Crystallography Association 2005 – 2007