

Sarah L. Stoll

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Education

1993 University of California, Berkeley: Ph. D. in Chemistry
Advisor: Angelica M. Stacy
1988 Smith College: Chemistry major, B.A., cum laude.

Awards

2002 Fulbright Teacher Scholar Award
1988 American Chemical Society Award for the Connecticut Valley Section
1988 C. Pauline Burt Prize

Professional Work Experience

2002-present Assistant Professor of Chemistry, Georgetown University
2002 Visiting Scientist, Helsinki University of Technology
2002 Associate Professor of Chemistry, Oberlin College
1996 Visiting Scientist, Oxford University
1996-2001 Assistant Professor of Chemistry, Oberlin College
1994-1996 Postdoctoral Fellow, Rice University
1994-1995 Postdoctoral Fellow, Harvard University
1993-1994 Visiting Assistant Professor of Chemistry, Oberlin College

Grants

2003 PI for NSF Nanoscale Exploratory Research.
2001 co-PI for NSF-CCLI for Scanning Electron Microscope.
2000 PI for NSF-CCLI, for Thermal Analysis Equipment (TGA/DTA coupled to FTIR, and DSC).
2000 PI for NSF Research Opportunity Award.
1999-2000 co-PI for grant from NSF-CCLI, for VSM magnetometer.
1997 PI for Grant-in-Aid for summer research at Oxford University.
1997-1999 PI for ACS-Petroleum Research Fund Type G grant for Individual Fundamental research.
1996-1998 PI for NSF-ILI, for an X-ray Powder Diffractometer.

Presentations at National Meetings

National Science Foundation Workshop, 2001
Gordon Conference on Inorganic Chemistry, 2000, 2001, 2002
Gordon Conference on Solid State Chemistry, 1992, 1994, 2000
Gordon Conference on Superconductivity, 1991
American Chemical Society National Meeting, 1995, 1998, 2000

Professional Memberships

American Chemical Society
Sigma Xi Honor Society
American Association for the Advancement of Science

Invited Talks

2002 “Monolayers and Multilayers of Mn-12” Helsinki University of Technology
2002 “Monolayers and Multilayers of Mn-12, Gordon Research Conference
2002 “Inorganic-Organic Multilayer films”, Georgetown University
2001 “Monolayers and Multilayers of Mn-12”, Los Alamos National Laboratory
2001 “Inorganic-Organic Hybrid Networks 3D Structures and 2D Films” Penn State University
2001 “Inorganic-Organic Hybrid Networks 3D Structures and 2D Films” Kent State University
2000 “Hydrothermal Synthesis of Inorganic Polymers” Wayne State University
2000 “Hydrothermal Synthesis of Inorganic Polymers”, Ball State University
1999 “Metal Chalcogenide Precursors”, Case Western Reserve University.
1999 “Metal Chalcogenide Precursors: molecule to solid transformations”, Ohio State University.
1997 “Metal Tetrathio-oxalate Complexes”, ICL Oxford University.
1996 “Precursors Design for Chemical Vapor Deposition”, NASA Lewis, Research Center.
1996 “Synthesis of precursors for Indium Chalcogenide thin films,” Sigma Xi, Oberlin College.

Education

2000 “Teaching Careers” GANN Program, Case Western Reserve University
1999 "Careers in Teaching Chemistry at Primarily Undergraduate Institutions", University of Illinois, Urbana-Champaign.

Professional service

NSF reviewer, (CAREER) 2002, (NIRT) 2003
Review panel, NSF-ILI/CCLI 1997, 1998, invited 2000
PRF grant reviewer, 1997, 1998, 2002

Research Corporation reviewer: 2001

Journal of the American Chemical Society manuscript reviewer, 2002

J. Crystal Growth manuscript reviewer, 1997

Chemical Education manuscript reviewer, 2000, 2001

Inorganic Chemistry manuscript reviewer, 2000, 2001

Publications

1. Steckel, J. S.; Persky, N. S.; Martinez, C. R.; Barnes, C. L.; Fry, E. L.; Kulkarni, J.; Burgess, J. D.; Pachero, R. B.; Stoll, S. L.; "Monolayers and Multilayers of $[\text{Mn}_{12}\text{O}_{12}(\text{O}_2\text{CMe})_{16}]$ " *Nano Letters*, **2003**, submitted.
2. Persky, N.; Chow, J.; Poschman, K.; Lacuesta, N. N.; Bott, S.; Obrey, S.; Stoll, S.; "Hydrothermal Synthesis, Structure and Properties of $[\text{Cu}_3\text{Cl}_2\text{CN}(\text{Pz})]$ and Cu(I) Halide Polymers", *Inorganic Chemistry* **2001**, *40*(1), 29.
3. Stoll, S. L.; Barron, A. R.; "Metal-Organic Chemical Vapor Deposition of Indium Selenide (InSe) thin Films," *Chemistry of Materials* **1998**, *10*(2), 650.
4. Stoll, S. L.; Bott, S. G.; Barron, A. R.; "Solid State Structure of $[(^t\text{Bu})_2\text{In}(\text{m-Cl})]_{\infty}$: An unusual Saw-Tooth Polymeric Chain," *Polyhedron* **1997**, *16*, 1763.
5. Stoll, S. L.; Bott, S. G.; Barron, A. R.; "Selenide and Selenolate Compounds of Indium: A comparative Study of In-Se Bond Forming Reactions," *J. Chem. Soc. Dalton Trans.* **1997**, p. 1315.
6. Stoll, S. L.; Stacy, A. M.; Bornick, R. M.; VerNooy, P.; "Copper K-Edge X-ray Absorption Studies of $\text{La}_{2-x}\text{K}_x\text{CuO}_4$ Superconductors, $\text{Ba}_4\text{NaCuO}_4(\text{CO}_3)_2$, and NdCu_2O_4 " *Inorg. Chem.* **1997**, *36*, 1838.
7. Senaris, M. A.; Alario-Franco, M. A.; Stoll, S.; Stacy, A. M.; "Structural Modulations in superconducting $\text{La}_{2-x}\text{K}_x\text{CuO}_{4-d}$ " *Physica C* **1997**, 282, 801.
8. Stoll, S. L.; Gillan, E. G.; Barron, A. R.; "Chemical Vapor Deposition of Gallium Selenide and Indium Selenide Nanoparticles," *Advanced Materials, Chem. Vap. Deposition* **1996**, *2*(5), 182.
9. Stoll, S. L.; Stacy, A. M.; Torardi, C. C.; "Single Crystal Growth, Alkali Metal Ordering, and Superconductivity in $\text{La}_{2-x}\text{M}_x\text{CuO}_4$ (M= Na, K) *Inorg. Chem.* **1994**, *33*(13), 2765.

Education

1. Stoll, S. L.; "Molecular Symmetry and Group Theory, by R. L. Carter", *J. Chem. Ed.* **2000**, 77(3), 313.
2. Stoll, S. L.; "X-ray Diffraction Facility for Undergraduate Teaching and Research in Chemistry and Physics," *J. Chem. Ed.* **1998**, 75(11), 1372.