

Peng Jiang

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EDUCATION

- **Ph.D.** in Materials Chemistry, Rice University, May 2001.
- **M.S.** in Physical Chemistry, Chinese Academy of Sciences, August 1996.
- **B.S.** in Chemistry and Chemical Engineering, Ocean University of China, July 1993.

PROFESSIONAL EXPERIENCE

- **Assistant Professor**, Department of Chemical Engineering, University of Florida, Gainesville, FL, 2006-Present.
- **Material Scientist**, GE Global Research Center, General Electric Corp., Niskayuna, NY, 2006.
- **Research Associate**, Department of Chemical Engineering, Princeton University, Princeton, NJ, 2003-2006.
- **Senior Research Scientist**, Corning R&D, Corning Incorporated, Corning, NY, 2001-2003.

TEACHING EXPERIENCE

- ECH 6937/4905 – Material Self-Assembly Over All Length Scales, Fall, 2006.

AWARDS & HONORS

- MRS Graduate Student Silver Awards, Materials Research Society, Fall 2000.
- Nettie S. Autrey Fellowship for Outstanding Research in Science, 2000-2001.
- The President Award, Chinese Academy of Sciences, November 1996.
- Distinguished Undergraduate Student Award, Ocean University of China, July 1993.

PROFESSIONAL AFFILIATIONS

- AIChE
- American Chemical Society
- Materials Research Society
- American Optical Society

ACADEMIC SERVICE

Reviewer for: *Journal of the American Chemical Society*, *Journal of Physical Chemistry B*, *Langmuir*, *Chemistry of Materials*, *Advanced Materials*, *Advanced Functional Materials*, *Chemical Physical Letters*, *Photonics and Nanostructures*, *Electrochemistry Communications*, and *Chinese Science Bulletin*.

PUBLICATIONS RELATED TO THE PROPOSED PROJECT

- "A lost-wax approach to monodisperse colloids and their crystals" **P. Jiang**, J. F. Bertone, and V. L. Colvin, *Science* **291**, 453-457 (2001).

- "Large-scale fabrication of wafer-size colloidal crystals, macroporous polymers, and nanocomposites by spin-coating" **P. Jiang** and M. McFarland, *J. Am. Chem. Soc.* **126**, 13778-13786 (2004).
- "Wafer-scale periodic nanohole arrays templated from two-dimensional non-close-packed colloidal crystals" **P. Jiang** and M. McFarland, *J. Am. Chem. Soc.*, **127**, 3710-3711 (2005).
- "Surface-templated nanostructured films with two-dimensional ordered arrays of voids" **P. Jiang**, *Angew. Chem. Int. Ed.* **43**, 5625-5628 (2004).
- "Large-scale fabrication of periodic nanostructured materials by using non-close-packed colloidal crystals as templates," **P. Jiang**, *Langmuir* **22**, 3955-3958 (2006).

OTHER SIGNIFICANT PUBLICATIONS

- "Single-crystal colloidal multilayers of controlled thickness" **P. Jiang**, J. F. Bertone, K. S. Hwang, and V. L. Colvin, *Chem. Mater.* **11**, 2132-2140 (1999). (Over 450 citations)
- "Wafer-scale fabrication of periodic polymer attoliter microvial arrays" **P. Jiang**, *Chem. Commun.*, 1699-1701 (2005).
- "Preparation of macroporous metal films from colloidal crystals" **P. Jiang**, J. Cizeron, J. F. Bertone, and V. L. Colvin, *J. Am. Chem. Soc.* **121**, 7957-7958 (1999).
- "Template-directed preparation of macroporous polymers with oriented and crystalline arrays of voids" **P. Jiang**, K. S. Hwang, D. M. Mittleman, J. F. Bertone, and V. L. Colvin, *J. Am. Chem. Soc.* **121**, 11630-11637 (1999).
- "Two-dimensional nonclose-packed colloidal crystals formed by spincoating" **P. Jiang**, T. Prasad, M. McFarland, and V. L. Colvin, *Appl. Phys. Lett.* **89**, 011908 (2006).

COLLABORATORS AND OTHER AFFILLIATIONS

- Collaborators:
Yannis G. Kevrekidis, Chemical Engineering, Princeton University
Roberto Car, Chemistry, Princeton University
Rajesh Rengarajan, Intel Corporation
Azar Alizadeh, General Electric Corporation
Brian Lawrence, General Electric Corporation
Radislav Potyrailo, General Electric Corporation
Yiider Tseng, Chemical Engineering, University of Florida
Charles Martin, Chemistry, University of Florida
Brij Moudgil, Materials Science and Engineering, University of Florida
Daniel M. Mittleman, Electrical and Computer Engineering, Rice University
Michael J. McFarland, Corning Inc.
Lawrence Shacklette, Corning Inc.
Macrae Maxfield, Corning Inc.
- Graduate Advisor:
Vicki L. Colvin, Chemistry, Rice University
- Postdoctoral Advisors:
Ilhan A. Aksay, Chemical Engineering, Princeton University
Dudley A. Saville, Chemical Engineering, Princeton University
- Graduate Students:
Nicholas Linn, Chih-hung Sun
- Undergraduate Students:
Samuel Bahr, Brian J. Ho, Srinivasan Venkatesh