

## Curriculum Vitae

### 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

- **Associate Professor**, Department of Chemical Engineering, University of Florida, Gainesville, FL, August 2010–present.
- **Assistant Professor**, Department of Chemical Engineering, University of Florida, Gainesville, FL, August 2006–August 2010.
- **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– Material Self-Assembly Over All Length Scales (3 credits, 34 students), Spring 2010. (Instructor evaluation: 4.77/5.0)
- ECH 3023 – Material and Energy Balances (4 credits, 92 students), Fall 2009. (Instructor evaluation: 4.90/5.0; departmental mean: 4.25/5.0)
- ECH 6937 – Material Self-Assembly Over All Length Scales (3 credits, 13 students), Spring 2009. (Instructor evaluation: 5.0/5.0; departmental mean: 4.16/5.0)
- ECH 3023 – Material and Energy Balances (5 credits, 82 students), Fall 2008. (Instructor evaluation: 4.49/5.0; departmental mean: 4.19/5.0)
- ECH 6937 – Material Self-Assembly Over All Length Scales (3 credits, 20 students), Spring 2008. (Instructor evaluation: 4.80/5.0; departmental mean: 4.10/5.0)
- ECH 3023 – Material and Energy Balances (5 credits, 90 students), Fall 2007. (Instructor evaluation: 4.62/5.0; departmental mean: 4.10/5.0)
- ECH 6937 – Material Self-Assembly Over All Length Scales (3 credits, 9 students), Fall 2006. (Instructor evaluation: 4.80/5.0; departmental mean: 4.00/5.0)

#### AWARDS & HONORS

- HMMI-UF Science for Life Distinguished Mentor Award, Spring 2010.
- NSF CAREER Award, 2008.
- 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

- American Society for Engineering Education (ASEE)
- American Institute of Chemical Engineers (AIChE)
- American Chemical Society (ACS)
- Materials Research Society (MRS)
- Optical Society of America (OSA)

## SYNERGISTIC ACTIVITIES

- Session Chair of Nanoparticle Synthesis and Stabilization, *American Institute of Chemical Engineering Annual Meeting*, San Francisco, California (2006).
- Session Chair of Ionic Transport for Batteries and Fuel Cells, *Materials Research Society Spring Meeting*, San Francisco, California (2007).
- Session Chair of Particle Synthesis and Stabilization, *American Institute of Chemical Engineering Annual Meeting*, Salt Lake City, Utah (2007).
- Session Co-Chair of Interfacial Phenomena in Environmental and Alternative Energy Systems, *American Institute of Chemical Engineering Annual Meeting*, Salt Lake City, Utah (2007).
- Session Chair of Nanoscale Synthesis 3: Growth Mechanism, *82<sup>nd</sup> ACS Colloid & Surface Science Symposium*, Raleigh, NC (2008).
- Session Chair of Life Science Applications 5: Self-Assembly, *82<sup>nd</sup> ACS Colloid & Surface Science Symposium*, Raleigh, NC (2008).
- Session Co-Chair of Interfacial Phenomena in Energy Systems, *American Institute of Chemical Engineering Annual Meeting*, Philadelphia, Pennsylvania (2008).
- Session Chair of Nanoparticle Synthesis and Stabilization, *American Institute of Chemical Engineering Annual Meeting*, Philadelphia, Pennsylvania (2008).
- Session Chair of Particle Synthesis and Stabilization, *American Institute of Chemical Engineering Annual Meeting*, Nashville, Tennessee (2009).
- Session Co-Chair of Colloidal Dispersions III, *American Institute of Chemical Engineering Annual Meeting*, Nashville, Tennessee (2009).
- Program Organizer of Micro/Nanofabrication of Metamaterials and Plasmonic Structures, *28<sup>th</sup> Progress in Electromagnetics Research Symposium*, Cambridge, MA (2010).
- Journal Reviewer: *Nature Photonics*, *Journal of the American Chemical Society*, *Angewandte Chemie International Edition*, *Nano Letters*, *Journal of Physical Chemistry*, *Langmuir*, *Chemistry of Materials*, *ACS Applied Materials & Interfaces*, *Advanced Materials*, *Advanced Functional Materials*, *Applied Physics Letters*, *Journal of Applied Physics*, *Chemical Physical Letters*, *Journal of Materials Chemistry*, *Photonics and Nanostructures*, *Superlattices and Microstructures*, *IEEE Sensors Journal*, *Electrochemistry Communications*, *Crystal Growth & Design*, *AIChE Journal*, *Journal of Nanomaterials*, *Journal of Solid State Chemistry*, *Optics and Lasers in Engineering*, *International Journal of Physical Sciences*, *Photonics Technology Letters*, *Microelectronics Engineering*, *Composites Science and Technology*, *Progress in Photovoltaics*, *Bioinspiration & Biomimetics*, *Australian Journal of Chemistry*, *Physical Chemistry Chemical Physics*, *European Journal of Inorganic Chemistry*, *Nanotechnology*, *Optics Letters*, *Optics Communications*, *Macromolecular Rapid Communications*, *Small*, *Journal of Colloid & Interface Science*, and *Environmental Science and Engineering*.
- Grant Panel Reviewer: NSF (CBET's PMP, EFS, and CBS programs, CHE's CSDM program, DMR's EPM program), DOE (ARPA-E and SBIR-STTR programs), ACS Petroleum Research Fund, Oak Ridge Associated Universities (ORAU) Ralph E. Powe Junior Faculty Enhancement Awards, and Korean National Science Foundation.

## RESEARCH SUPPORT

- National Science Foundation
- Department of Energy
- Defense Threat Reduction Agency
- The Petroleum Research Fund
- California Energy Commission
- Florida Technology, Research, and Scholarship Board
- Rohm and Haas Electronic Materials Inc
- Emcore Corporation
- Oak Ridge National Laboratory
- University of Florida Research Opportunity Seed Fund

## STUDENTS

- Graduate Students: Chih-Hung Sun (Ph.D.), Nicholas C. Linn (Ph.D.), Tzung-Hua Lin (Ph.D.), Wei-Lun Min (Ph.D.), In-Kook Jun (Ph.D., co-advised with Prof. Henry Hess), Hongta Yang (Ph.D. candidate), Wei-Han Huang (Ph.D. candidate), Gill Brubaker (Ph.D. candidate, co-advised with Prof. David Tanner), Pei-Yu Chung (Ph.D. candidate, co-advised with Prof. Christopher Batich), Gavin Garvey (M.S.), Adriel Gonzales (M.S.), Ya-Chiao Chang (M.S.), Numan Gozubenli (M.S.), Xuzhi Zhu (M.S.), Heather R. Marchetti (M.S.), Robert Lobdell (M.S.), Parinda Dangmeon (M.S.), Matt Glover (M.S.), Hao-Yu Lu (M.S.), Shao-Yuan Lu (M.S.), .
- Undergraduate Students: Samuel Bahr, Brian Ho, Srinivasan Venkatesh, Amaury Betacourt, Ajay Arya, Lemis Tarajano, James Rivers, Alejandro Trimarchi, James Wrench, Bhavna Madhyani, Ryan Niles , Alec J. Lippmann, Diago A. Trujillo, Tafadzwa Chigumira (REU).
- High School Students: Fedja Kadribasic, Max Levy, Patrick R. Terry, Grace Ooi.
- Visiting Scholars: Prof. Xuefeng Liu (Jiangnan University, China), Prof. Sartoshi Watanabe (Kyoto University, Japan).

## ISSUED/PENDING PATENTS

1. “Macroporous Membrane Filters and Method for Producing”, Yang, H. T. and Jiang, P., provisional US patent filed by the UF Office of Technology Licensing.
2. “Label-free Surface Plasmon Resonance Diagnostic Technology”, Cheng, P. Y.; Lin, T. H.; Schultz, G.; Batich, C.; Jiang, P., provisional US patent filed by the UF Office of Technology Licensing.
3. “Macroporous Polymer Reflective Color Displays and Method for Producing”, Yang, H. T. and Jiang, P., provisional US patent filed by the UF Office of Technology Licensing.
4. “Biomimetic Antireflection Coatings for Highly Efficient Photovoltaics”, Sun, C. H. and Jiang, P., invention disclosure filed to UF’s Office of Technology Licensing.
5. “Optical Article Having a Thermally Responsive Material as an Anti-theft Feature and a System and Method for Inhibiting Theft of Same”, Wisnudel, M; Patel, B.; Peters, A.; Jiang, P., US Patent (20080018886), pending, filed by General Electric.
6. “Wirelessly Powered Flexible Tag”, Wisnudel, M.; Patel, B.; R. Frey, Potyrailo, R.; Litz, K; Jiang, P.; Peters, A., US Patent (20070114621), pending, filed by General Electric.
7. “Large-Scale Colloidal Crystals and Macroporous Polymers and Method for Producing”, Jiang, P. US Patent (20050095417), pending, filed by Corning Inc.
8. “Polymers Having Ordered, Monodisperse Pores and Their Corresponding Ordered, Monodisperse Colloids”, Jiang, P. and Colvin, V. L., US Patent, 6,929,764.

## List of Publications (Over 3,200 citations)

(\* denotes corresponding author)

### Independent Publications:

58. Sun, C. H.; Liu, X. F.; Ho, B. C.; Jiang, P.\* Evaporation-Induced Hierarchical Assemblies of Rigid Silicon Nanowires. Submitted to *Advanced Materials*.
57. Yang, H. T.; Jiang, P.\* Scalable Fabrication of Superhydrophobic Hierarchical Colloidal Arrays. *Journal of Colloid and Interface Science*, accepted for publication.
56. Yang, H. T.; Jiang, P.\* Large-Scale Colloidal Self-Assembly by Doctor Blade Coating. *Langmuir* **2010**, *26*, 13173-13182
55. Yang, H. T.; Jiang, P.\* Self-Cleaning Diffractive Macroporous Polymer Films by Doctor Blade Coating. *Langmuir* **2010**, *26*, 12598-12604.
54. Chung, P. Y.; Lin, T. H.; Batich, C. D.;\* Schultz, G. S.; Jiang P.\* Nanostructured Surface Plasmon Resonance Sensors. *Applied Physics Letters* **2010**, *96*, 261108.
53. Lin, T. H.; Huang, W. H.; Jun, I. K.; Jiang, P.\* Bioinspired Assembly of Surface-Roughened Nanoplatelets. *Journal of Colloid and Interface Science* **2010**, *344*, 272-278.
52. Liu, X. F.; Linn, N. C.; Cun, C. H.; Jiang, P.\* Templated Fabrication of Metal Half-Shells for Surface-Enhanced Raman Scattering. *Physical Chemistry Chemical Physics* **2010**, *12*, 1379-1387.
51. Liu, X. F.; Sun, C. H.; Jiang, P.\* Templated Fabrication of Periodic Metallic Petri Dish Arrays. *Chemistry of Materials* **2010**, *22*, 1768-1775.
50. Linn, N. C.; Sun, C. H.; Liu, X. F.; Lin, T. H.; Jiang, B.; Jiang, P.\* Self-Assembled Photonic Crystals and Templated Plasmonic Nanostructures. *ACS Applied Materials & Interfaces*, in press. (Invited review article)
49. Liu, X. F.; Sun, C. H.; Linn, N. C.; Jiang, B.; Jiang, P.\* Wafer-Scale SERS Substrates with Highly Reproducible Enhancement. *Journal of Physical Chemistry C* **2009**, *113*, 14804-14811.
48. Lin, T. H.; Huang, W. H.; Jun, I. K.; Jiang, P.\* Electrophoretic Co-Deposition of Biomimetic Nanoplatelet-Polyelectrolyte Composites. *Electrochemistry Communications* **2009**, *11*, 1635-1638.
47. Min, W. L.; Sun, C. H.; Linn, N. C.; Liu, X. F.; Huang, W. H.; Ho, B. C.; Amaury, A. P.; Jiang, B.; Jiang, P.\* Self-Assembled Biomimetic Antireflection Coatings. *European Journal of Inorganic Chemistry*, accepted for publication. (Invited review article)
46. Linn, N. C.; Sun, C. H.; Arya, A.; Jiang, B.; Jiang, P.\* Surface-Enhanced Raman Scattering on Periodic Metal Nanotips with Tunable Sharpness. *Nanotechnology* **2009**, *20*, 225303.
45. Lin, T. H.; Huang, W. H.; Jun, I. K.; Jiang, P.\* Bioinspired Assembly of Colloidal Nanoplatelets by Electric Field. *Chemistry of Materials* **2009**, *21*, 2039-2044.
44. Sun, C. H.; Min, W. L.; Linn, N. C.; Jiang, B.; Jiang P.\* Large-Scale Assembly of Periodic Nanostructures with Metastable Square Lattices. *Journal of Vacuum Science and Technology B* **2009**, *27*, 1043-1047.
43. Lin, T. H.; Linn, N. C.; Tarajano, L.; Jiang, B.; Jiang, P.\* Electrochemical SERS at Periodic Metallic Nanopyramid Arrays. *Journal of Physical Chemistry C* **2009**, *113*, 1367-1372.
42. Lin, T. H.; Huang, W. H.; Jun, I. K.; Jiang, P.\* Electrophoretic Co-Deposition of Biomimetic Nanocomposites. *Electrochemistry Communications* **2009**, *11*, 14-17.
41. Min, W. L.; Jiang, B.; Jiang, P.\* Large-Scale Assembly of Colloidal Nanoparticles by Spin-Coating. *Nanotechnology* **2008**, *19*, 475604.
40. Huang, W. H.; Sun, C. H.; Min, W. L.; Jiang, B.; Jiang P.\* Templated Fabrication of Periodic Binary Nanostructures. *Journal of Physical Chemistry C* **2008**, *112*, 17586-17591.
39. Sun, C. H.; Ho, B.; Jiang, B.; Jiang, P.\* Biomimetic Subwavelength Antireflective Gratings on GaAs. *Optics Letters* **2008**, *33*, 2224-2226. (Selected for *Virtual Journal for Biomedical Optics*)
38. Min, W. L.; Jiang, B.; Jiang, P.\* Bioinspired Self-Cleaning Antireflection Coatings. *Advanced Materials* **2008**, *20*, 3914-3918.
37. Sun, C. H.; Min, W. L.; Jiang, P.\* Templated Fabrication of Sub-100 nm Periodic Nanostructures. *Chemical Communications* **2008**, 3163-3165. (Selected for *Virtual Journal of Nanoscale Science & Technology*)

36. Min, W. L.; Betancourt, A. P.; Jiang, B.; Jiang, P.\* Bio-inspired Broadband Antireflection Coatings on GaSb. *Applied Physics Letters* **2008**, 92, 141109.
35. Sun, C. H.; Jiang, B.; Jiang, P.\* Broadband Moth-Eye Antireflection Coatings on Silicon. *Applied Physics Letters* **2008**, 92, 061112. (Featured in *Materials Today*, *Popular Science*, and many other public media)
34. Sun, C. H.; Gonzalez, A.; Linn, N. C.; Jiang, B.; Jiang, P.\* Templated Biomimetic Multifunctional Coatings. *Applied Physics Letters* **2008**, 92, 051107.
33. Sun, C. H.; Jiang, P.\* Photonic Crystals: Acclaimed Defects. *Nature Photonics* **2007**, 2, 9-11.
32. Sun, C. H.; Min, W. L.; Linn, N. C.; Jiang, B.; Jiang, P.\* Templated Fabrication of Large Area Subwavelength Antireflection Gratings on Silicon. *Applied Physics Letters* **2007**, 91, 231105.
31. Jiang, P.\*; Sun, C. H.; Linn, N. C.; Ho, B.; Venkatesh, S. Self-Assembled Photonic Crystals and Templated Nanomaterials. *Current Nanoscience* **2007**, 3, 296-305. (Invited review article)
30. Linn, N. C.; Sun, C. H.; Jiang, B.; Jiang, P.\* Self-Assembled Biomimetic Antireflection Coatings. *Applied Physics Letters* **2007**, 91, 111108. (Featured in *Nature*, *Laser Focus World*, and dozens of other public media; Selected for *Virtual Journal of Nanoscale Science & Technology*)
29. Sun, C. H.; Linn, N. C.; Jiang, P.\* Templated Fabrication of Periodic Metallic Nanopyramid Arrays. *Chemistry of Materials* **2007**, 19, 4551-4556.
28. Venkatesh, S.; Jiang, B.; Jiang, P.\* Generalized Fabrication of Two-Dimensional Non-Close-Packed Colloidal Crystals. *Langmuir* **2007**, 23, 8231-8235.
27. Jiang, P.\*; Prasad, T.; McFarland, M. J.; Colvin, V. L. Two-Dimensional Nonclose-Packed Colloidal Crystals Formed by Spincoating. *Applied Physics Letters* **2006**, 89, 011908.
26. Jiang, P.\* Large-Scale Fabrication of Periodic Nanostructured Materials by Using Hexagonal Non-Close-Packed Colloidal Crystals as Templates. *Langmuir* **2006**, 22, 3955-3958.
25. Jiang, P.\* Wafer-Scale Fabrication of Periodic Polymer Attolitre Microvial Arrays. *Chemical Communications* **2005**, 1699-1701. (Featured in *Chemical Technology*)
24. Jiang, P.\*; McFarland, M. J. Wafer-Scale Periodic Nanohole Arrays Templated from Two-Dimensional Nonclose-Packed Colloidal Crystals. *Journal of the American Chemical Society* **2005**, 127, 3710-3711. (Featured in *Instrumentation for Biology* published by CEA-LETI/OMNT)
23. Jiang, P.\*; McFarland, M. J. Large-Scale Fabrication of Wafer-Size Colloidal Crystals, Macroporous Polymers and Nanocomposites by Spin-Coating. *Journal of the American Chemical Society* **2004**, 126, 13778-13786.
22. Jiang, P.\* Surface-Templated Nanostructured Films with Two-Dimensional Ordered Arrays of Voids. *Angewandte Chemie-International Edition* **2004**, 43, 5625-5628.

#### Other Publications:

21. Ristenpart, W. D.; Jiang, P.; Slowik, M. A.; Punckt, C.; Saville, D. A.; Aksay, I. A.\* Electrohydrodynamic Flow and Colloidal Patterning near Inhomogeneities on Electrodes. *Langmuir* **2008**, 24, 12172-12180.
20. Jiang, P.; Bertone, J. F.; Colvin, V. L.\* A Lost-Wax Approach to Monodisperse Colloids and Their Crystals. *Science* **2001**, 291, 453-457. (Featured in *Chemical & Engineering News*, *Technical Insights*, and many other public media)
19. Rengarajan, R.; Jiang, P.; Larrabee, D. C.; Colvin, V. L.; Mittleman, D. M.\* Colloidal Photonic Superlattices. *Physical Review B* **2001**, 6420.
18. Jiang, P.; Ostojic, G. N.; Narat, R.; Mittleman, D. M.; Colvin, V. L.\* The Fabrication and Bandgap Engineering of Photonic Multilayers. *Advanced Materials* **2001**, 13, 389-393. (Invited article)
17. Rengarajan, R.; Jiang, P.; Colvin, V.; Mittleman, D.\* Optical Properties of a Photonic Crystal of Hollow Spherical Shells. *Applied Physics Letters* **2000**, 77, 3517-3519. (Selected for *Virtual Journal of Nanoscale Science & Technology*)
16. Kulinowski, K. M.; Jiang, P.; Vaswani, H.; Colvin, V. L.\* Porous Metals from Colloidal Templates. *Advanced Materials* **2000**, 12, 833-838. (Featured cover art)

15. Jiang, P.; Hwang, K. S.; Mittleman, D. M.; Bertone, J. F.; Colvin, V. L.\* Template-Directed Preparation of Macroporous Polymers with Oriented and Crystalline Arrays of Voids. *Journal of the American Chemical Society* **1999**, 121, 11630-11637.
14. Jiang, P.; Cizeron, J.; Bertone, J. F.; Colvin, V. L.\* Preparation of Macroporous Metal Films from Colloidal Crystals. *Journal of the American Chemical Society* **1999**, 121, 7957-7958. (Featured in *The Economist*)
13. Jiang, P.; Bertone, J. F.; Hwang, K. S.; Colvin, V. L.\* Single-Crystal Colloidal Multilayers of Controlled Thickness. *Chemistry of Materials* **1999**, 11, 2132-2140. (#1 most cited article of *Chemistry of Materials* as of July 2009)
12. Bertone, J. F.; Jiang, P.; Hwang, K. S.; Mittleman, D. M.; Colvin, V. L.\* Thickness Dependence of the Optical Properties of Ordered Silica-Air and Air-Polymer Photonic Crystals. *Physical Review Letters* **1999**, 83, 300-303.
11. Mittleman, D. M.\*; Bertone, J. F.; Jiang, P.; Hwang, K. S.; Colvin, V. L. Optical Properties of Planar Colloidal Crystals: Dynamical Diffraction and the Scalar Wave Approximation. *Journal of Chemical Physics* **1999**, 111, 345-354.
10. Wang, D. X.\*; Jiang, P.; Qian, X. M.; Hong, G. Y. Response To "Comment on 'a Study of HeI Photoelectron Spectroscopy on the Electronic Structure of the Nitrate Free Radical NO<sub>3</sub>'". *Journal of Chemical Physics* **1998**, 108, 1293-1293.
9. Wang, D. X.\*; Jiang, P.; Qian, X. M.; Hong, G. Y. A Study of HeI Photoelectron Spectroscopy on the Electronic Structure of the Nitrate Free Radical NO<sub>3</sub>. *Journal of Chemical Physics* **1997**, 106, 3003-3006.
8. Jiang, P.; Qian, X. M.; Li, C. H.; Qiao, C. H.; Wang, D. X.\* HeI Photoelectron Spectroscopic Studies on the Electronic Structure of Alkyl Nitrosamines. *Chemical Physics Letters* **1997**, 277, 508-512.
7. Wang, D. X.\*; Jiang, P.; Zhang, Q. Y. HeI Photoelectron Spectrum (PES) of Fluorine Nitrate, FONO<sub>2</sub>. *Chemical Physics Letters* **1996**, 262, 771-775.
6. Wang, D. X.\*; Qian, X. M.; Jiang, P. A Novel Method for the Kinetic Study of a Chemical Reaction: Determination of the Kinetic Parameters of the Isomerisation Reaction of Methyl Isocyanide Using HeI Photoelectron Spectroscopy. *Chemical Physics Letters* **1996**, 258, 149-154.
5. Wang, D. X.\*; Jiang, P. HeI Photoelectron Spectroscopy Study on the Electronic Structure of Bromine Nitrate, BrONO<sub>2</sub>. *Journal of Physical Chemistry* **1996**, 100, 4382-4384.
4. Wang, D. X.\*; Li, Y.; Jiang, P.; Wang, X. H.; Chen, B. M. The Study of HeI Photoelectron Spectroscopy (PES) of the Electronic Structure for ClONO<sub>2</sub>. *Chemical Physics Letters* **1996**, 260, 99-102.
3. Jiang, P.; Wang, D. X.\* HeI Photoelectron Spectroscopy Study of the Reaction between Chlorine Nitrate Molecules with Chlorine Atoms. *Chemistry Bulletin* **1996**, 3, 331-337.
2. Jiang, P.; Wang, D. X.\* HeI Photoelectron Spectroscopy Study of the Photolysis Reaction of Chlorine Nitrate by 253.7 Nm Ultraviolet Light. *Chinese Journal of Chemical Physics* **1996**, 9, 235-241.
1. Chen, G. H.\*; Jiang, P.; Chen, Y.; Ji, H. A Phase Diagram Study of Microemulsions Formed from n-Hexane and Seawater. *Chinese Journal of Oceanology et Limnology* **1995**, 26, 619-626.

### Book Chapters:

1. Lin, T. H.; Huang, W. H.; Jun, I. K.; Jiang, P.\* Bioinspired Assembly of Inorganic Nanoplatelets for Reinforced Polymer Nanocomposites. In: *Advances in Biomimetics* (Eds: V. Kordic), In-Tech, Vienna, Australia, to be published in 2010.