

Lanfang Li

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Education

Ph.D. candidate, Materials Science and Engineering,
University of Illinois, Urbana-Champaign, IL
M.S. Chemical Physics, Kent State University, Kent, OH, 2005
B.S. Physics, Beijing Normal University, Beijing, China, 2003

Research Description

Research on renewable energy source implemented by solar photovoltaic (solar cell) technology.

Academic/Work History

- **Research Assistant, Dept of Materials Sci & Eng, UIUC** 2005-Current
- **Research Assistant, Liquid Crystal Institute, Kent State University** 2003-2005

Publications

⊕ Journal Articles

1. Jongseung Yoon, Alfred J. Baca, Sang-II Park, Paulius Elvikis, Joseph B. Geddes, III, **Lanfang Li**, Rak Hwan Kim, Jianliang Xiao, Shuodao Wang, Tae-Ho Kim, Michael J. Motala, Bok Yeop Ahn, Eric B. Duoss, Jennifer A. Lewis, Ralph G. Nuzzo, Placid M. Ferreira, Yonggang Huang, Angus Rockett and John A. Rogers, Ultrathin silicon solar microcells for semitransparent, mechanically flexible and microconcentrator module designs, *Nature Materials*, **7**, 907-915, 2008
2. **L. Li**, S. Kang, J. Harden, Q. Sun, X. Zhou, L. Dai, A. Jakli, S. Kumar, and Q. Li, Nature Inspired Light-harvesting Liquid Crystalline Porphyrins for Organic Photovoltaics, *Liquid Crystals*, **35** (3), 233-239, 2008
3. Q. Sun, L. Dai, X. Zhou, **L. Li**, and Q. Li, Bilayer- and Bulk-heterojunction Solar Cells Using Liquid Crystalline Porphyrins as Donors by Solution Processing, *Applied Physics Letters*, **91**, 253505/1-253505/3, 2007
4. S. Kang, Q. Li, B. D. Chapman, R. Pindak, J. O. Cross, **L. Li**, M. Nakata, S. Kumar, Micro-focus X-ray Diffraction Study of the Columnar Phase of Porphyrin-based Mesogens, *Chemistry of Materials*, **19**, 5657-5663, 2007
5. Quan Li, **Lanfang Li**, Photoconducting Discotic Liquid Crystals, in *Thermotropic Liquid Crystals – Recent Advances*, Ramamoorthy, Ayyalusamy (Ed.), Springer, New York, 2007
6. Q. Li, **L. Li**, J. Kim, Reversible Photoresponsive Chiral Liquid Crystals Containing a Cholesteryl Moiety and Azobenzene Linker, *Chemistry of Materials*, **17**(24) 6018-6021, 2005
7. C. Woolverton, E. Gustely, **L. Li**, O. D. Lavrentovich, Liquid crystal effects on bacterial viability, *Liquid Crystals*, **32**(4), 412-423, 2005

8. **L. Li**, C.O. Catanescu, L. Chien, Liquid Crystal Influenced Self-assembly in Mesogenic Polymer and Liquid Crystal Blends”, *MRS proc. 2004 Fall Meeting*;

Conference Presentations

1. **Lanfang Li**, Otilia C. Catanescu, Liang-Chy Chien, “Dynamics and morphology of polymer stabilized liquid crystals,” *Photonics West 2008*, San Jose, CA, Jan. 19- Jan. 24, 2008, [6911-23]
2. Q. Li, **L. Li**, X. Zhou, Molecular Design and Synthesis of Novel Photoconducting Discotic Liquid Crystalline Porphyrins, ACS Annual Meeting, 231: 617-ORGN MAR 26 2006
3. **L. Li**, L. Chien, Templating Effect in Liquid Crystalline Guest Host System, International Liquid Crystal Conference, Ljubljana, Slovenia, July 4 - 9, 2004, Poly026
4. **L. Li**, C.O. Catanescu, L. Chien, Liquid Crystal Influenced Self-assembly in Mesogenic Polymer and Liquid Crystal Blends, MRS 2004 fall meeting, Boston, Nov. 29 – Dec. 3, 2004, BB11.2

Patents

* Quan Li, **Lanfang Li**, Antal Jakli, John Harden, Nanoscale Discotic Liquid Crystalline Porphyrins, US patent 7,279,570, 2007