

WEI YOU

(updated on 04/24/2014)

Department of Chemistry
University of North Carolina
Kenan Lab C540
Chapel Hill, NC 27599

Tel: (919) 962-6197
Fax: (919) 962-2388
E-mail: wyou@unc.edu

1. PERSONAL

Permanent Resident of the United States

2. EDUCATION

University of Chicago	Organic/Polymer Chemistry	Ph.D. 2004
University of Science and Technology of China	Chemistry	B.S.1999

3. PROFESSIONAL EXPERIENCE

2013-present Associate Editor, Polymer Chemistry (Royal Society of Chemistry)
2012-present Associate Professor of Chemistry, University of North Carolina, Chapel Hill, NC
2006-2012 Assistant Professor of Chemistry, University of North Carolina, Chapel Hill, NC
2004-2006 Postdoctoral Fellow, Department of Chemical Engineering, Stanford University, Stanford, CA
1999-2004 Graduate Assistant, Department of Chemistry, University of Chicago, Chicago, IL

4. HONORS and MEMBERSHIPS

Honors and Awards

2013 Ruth and Phillip Hettleman Prize for Artistic and Scholarly Achievement
2013 One publication was selected as one of the top 9 articles out of 1300+ for "Best of Macromolecular Journals 2012" by Wiley
2012 Two publications were in "the hottest research of 2011" by Thomas Reuters
2012 CAPA Distinguished Junior Faculty Award
2011 Camille Dreyfus Teacher-Scholar Award
2011 Tanner Award for Excellence in Undergraduate Teaching
2010-2015 NSF CAREER Award
2008-2009 R.J. Reynolds Junior Faculty Development Award
2008-2010 DuPont Young Professor Award
2007-2008 DuPont Science and Engineering Grant
2004 "Excellence in Graduate Polymer Research", American Chemical Society 228th National Meeting
2002 "Outstanding Leadership and Dedication", recognized by Consulate General of the People's Republic of China in Chicago
1999 "Excellent Thesis of USTC (Year 1999)" from University of Science and Technology of China, Hefei, Anhui, P. R. China
1998 "Excellent Student Fellowship (Third Prize)" from University of Science and Technology of China, Hefei, Anhui, P. R. China

- 1997 "P&G Scholarship" from University of Science and Technology of China, Hefei, Anhui, P. R. China
- 1996 "Panasonic Scholarship" from University of Science and Technology of China, Hefei, Anhui, P. R. China
- 1995 "Excellent Student Fellowship (First Prize)" from University of Science and Technology of China, Hefei, Anhui, P. R. China

Professional Affiliations

American Chemical Society
Materials Research Society

5. PUBLICATIONS

a. Book Chapters

- (4) "Molecular Design of Conjugated Polymers for High-Efficiency Solar Cells." Liqiang Yang, Huaxing Zhou, Andrew C. Stuart, and Wei You. **Wei You***, in "Organic Photovoltaics: Materials, Device Physics, and Manufacturing Technologies, Second Edition", **2014**, Wiley-VCH Verlag GmbH & Co. KGaA.
- (3) "Donor-Acceptor Alternating Copolymers." Wentao Li, and **Wei You***, in "*Conjugated Polymers: A Practical Guide to Synthesis*", **2013**, RSC Polymer Chemistry Series No. 9.
- (2) "Conjugated polymers based on benzo[1,2-*b*:4,5-*b'*]dithiophene for organic electronics." Huaxing Zhou, and **Wei You***, in "*High Performance Polymers and Engineering Plastics*", **2011**, Scrivener & Wiley (invited review).
- (1) "Recent Progress on Highly Efficient Bulk Heterojunction Polymer Solar Cells." Shenqiang Xiao, Samuel C. Price, Huaxing Zhou, and **Wei You***. *ACS Symp. Ser.* **2010**, 1034, 71 (invited review).

b. Refereed Papers

Independent Research (as PI at UNC-CH)

- (51) "The influence of molecular orientation on organic bulk heterojunction solar cells." John R. Tumbleston, Brian A. Collins, Liqiang Yang, Andrew C. Stuart, Eliot Gann, WeiMa, **Wei You***, and Harald Ade.* *Nature Photon.* **2014**, DOI: 10.1038/NPHOTON.2014.55
- (50) "Controlling Molecular Weight of a High Efficiency Donor-Acceptor Conjugated Polymer and Understanding Its Significant Impact on Photovoltaic Properties." Wentao Li, Liqiang Yang, John R. Tumbleston, Liang Yan, Harald Ade,* and **Wei You*** *Adv. Mater.* **2014**, DOI: 10.1002/adma.201305251
- (49) "Tuning Fluorinated Benzotriazole Polymers through Alkylthio Substitution and Selenophene Incorporation for Bulk Heterojunction Solar Cells." Rysel L. Uy, Liang Yan, Wentao Li, and **Wei You***. *Macromolecules* **2014**, 47, 2289–2295.

- (48) "Roles of Interfacial Modifiers in Hybrid Solar Cells: Inorganic/Polymer Bilayer vs. Inorganic/Polymer:Fullerene Bulk Heterojunction." Seung Hun Eom, Myung-Jin Baek, Hanok Park, Liang Yan, Shubin Liu, **Wei You**,* and Soo-Hyoung Lee.*. *ACS Appl. Mater. Inter.* **2014**, *6*, 803-810.
- (47) "Iron(II) spin crossover films on Au(111): scanning probe microscopy and photoelectron spectroscopy." Alex Pronschinske, Robert C. Bruce, Geoff Lewis, Yifeng Chen, Arrigo Calzolari, Marco Buongiorno-Nardelli, David A. Shultz, **Wei You**, and Daniel B. Dougherty*. *Chem. Commun.*, **2013**, *49*, 10446-10452.
- (46) "Soluble Reduced Graphene Oxide Sheets Grafted with Polypyridylruthenium-Derivatized Polystyrene Brushes as Light Harvesting Antenna for Photovoltaic Applications." Zhen Fang, Akitaka Ito, Andrew C. Stuart, Hanlin Luo, Zuofeng Chen, Kizhanipuram Vinodgopal, **Wei You**, Thomas J. Meyer,* and Darlene K. Taylor.* *ACS Nano* **2013**, *7*, 7992-8002.
- (45) "The effect of passivation on different GaAs surfaces." Ted, H. Yu, Liang Yan, **Wei You**, Ramesh B. Laghumavarapu, Diana Huffaker, and Christian Ratsch.* *Appl. Phys. Lett.* **2013**, *103*, 173902.
- (44) "Real Function of Semiconducting Polymer in GaAs/Polymer Planar Heterojunction Solar Cells." Liang Yan, and **Wei You**.*. *ACS Nano* **2013**, *7*, 6619-6626.
- (43) "Tuning optical and electronic properties of star-shaped conjugated molecules with enlarged π -delocalization for organic solar cell application." Youyu Jiang, Di Yu, Luhua Lu, Chun Zhan, Di Wu, **Wei You**,* Zhizhong Xie, and Shegnqiang Xiao*. *J. Mater. Chem. A*, **2013**, *1*, 8270-8279.
- (42) "Organic Solar Cells beyond One Pair of Donor-Acceptor: Ternary Blends and More." Liqiang Yang, Liang Yan, and **Wei You**.*. *J. Phys. Chem. Lett.* **2013**, *4*, 1802-1810.
- (41) "Fluorinated Polymer Yields High Organic Solar Cell Performance for a Wide Range of Morphologies." John R. Tumbleston, Andrew C. Stuart, Eliot Gann, **Wei You**, and Harald Ade*. *Adv. Funct. Mater.* **2013**, *23*, 3463-3470
- (40) "Fluorine Substituents Reduce Charge Recombination and Drive Structure and Morphology Development in Polymer Solar Cells." Andrew C. Stuart, John R. Tumbleston, Huaxing Zhou, Wentao Li, Shubin Liu, Harald Ade, and **Wei You**.* *J. Am. Chem. Soc.* **2013**, *135*, 1806-1815.
- (39) "Disentangling the impact of side chains and fluorine substituents of conjugated donor polymers on the performance of photovoltaic blends." Liqiang Yang, John R. Tumbleston, Huaxing Zhou, Harald Ade, and **Wei You**.* *Energy Environ. Sci.* **2013**, *6*, 316-326.
- (38) "An Investigation of Siloxane Cross-Linked Hydroxyapatite-Gelatin/Copolymer Composites

- for Potential Orthopedic Applications.” Jason Christopher Dyke, Kelly Jane Knight, Huaxing Zhou, Chi-Kai Chiu, Ching-Chang Ko, and **Wei You**.* *J. Mater. Chem.*, **2012**, *22*, 22888-22898.
- (37) “Surface-Initiated Poly(3-methylthiophene) as a Hole-Transport Layer for Polymer Solar Cells with High Performance.” Liqiang Yang, S. Kyle Sontag, Travis W. LaJoie, Wentao Li, N. Eric Huddleston, Jason Locklin*, and **Wei You**.* *ACS Appl. Mater. Interfaces*, **2012**, *4*, 5069–5073.
- (36) “Tunneling Characteristics of Au–Alkanedithiol–Au Junctions formed via Nanotransfer Printing (nTP).” Jeremy R. Niskala, William C. Rice, Robert C. Bruce, Timothy J. Merkel, Frank Tsui, and **Wei You**.* *J. Am. Chem. Soc.* **2012**, *134*, 12072–12082.
- (35) “Structure-Property Optimizations in Donor Polymers via Electronics, Substituents, and Side Chains Toward High Efficiency Solar Cells.” Rycel L. Uy, Samuel C. Price, and **Wei You**.* *Macromol. Rapid Commun.* **2012**, *33*, 1162-1177.
- Selected as one of the top 9 articles out of 1300+ for “Best of Macromolecular Journals 2012” by Wiley.
- (34) “Parallel-like Bulk Heterojunction Polymer Solar Cells.” Liqiang Yang, Huaxing Zhou, Samuel C. Price, and **Wei You**.* *J. Am. Chem. Soc.* **2012**, *134*, 5432.
- (33) “A Universal Optical Approach to Enhancing Efficiency of Organic-Based Photovoltaic Devices.” Jason D. Myers, Weiran Cao, Vincent Cassidy, Sang-Hyun Eom, Renjia Zhou, Liqiang Yang, **Wei You** and Jiangeng Xue.* *Energy Environ. Sci.* **2012**, *5*, 6900-6904.
- (32) “Rational Design of High Performance Conjugated Polymers for Organic Solar Cells.” Huaxing Zhou, Liqiang Yang, and **Wei You**.* *Macromolecules* **2012**, *45*, 607.
- An invited Perspective (a review type article)
 - Cover of Issue 2, Volume 45 of *Macromolecules*
- (31) “Laterally-Patterned Magnetic Nanoparticles.” Yanni Jie, Jeremy R. Niskala, Aaron C. Johnston-Peck, Peter J. Krommenhoek, Joseph B. Tracy, Huiqing Fan, and **Wei You**.* *J. Mater. Chem.* **2012**, *22*, 1962.
- (30) “Improved Synthesis of Thienothiazole and Its Utility in Developing Polymers for Photovoltaics.” Rycel L. Uy, Liqiang Yang, Huaxing Zhou, Samuel C. Price, and **Wei You**.* *Macromolecules* **2011**, *44*, 9146.
- Highlighted by *Synfacts* **2012**, *8(2)*, 0158
- (29) “Solution-Processed Flexible Polymer Solar Cells with Silver Nanowire Electrodes.” Liqiang Yang, Tim Zhang, Huaxing Zhou, Samuel C. Price, Benjamin J. Wiley*, and **Wei You**.* *ACS Appl. Mater. & Interfaces* **2011**, *3*, 4075.

- (28) "Fluorine Substituted Conjugated Polymer of Medium Band Gap Yields 7% Efficiency in Polymer-Fullerene Solar Cells." Samuel C. Price, Andrew C. Stuart, Liqiang Yang, Huaxing Zhou, and **Wei You***. *J. Am. Chem. Soc.* **2011**, *133*, 4625.
- Highlighted in *Science* (<http://www.sciencemag.org/content/332/6027/293.full>)
 - Selected into "the hottest research of 2011" by Thomas Reuters
- (27) "Low Band Gap Polymers that Utilize Quinoid Resonance Structure Stabilization by Thienothiophene: Fine-Tuning of HOMO Level." Nabil Kleinhenz, Liqiang Yang, Huaxing Zhou, Samuel C. Price, and **Wei You***. *Macromolecules* **2011**, *44*, 872.
- (26) "Development of Fluorinated Benzothiadiazole as Structural Unit towards a 7% Polymer Solar Cell." Huaxing Zhou, Liqiang Yang, Andrew C. Stuart, Samuel C. Price, Shubin Liu, and **Wei You***. *Angew. Chem., Int. Ed.* **2011**, *50*, 2995.
- Selected into "the hottest research of 2011" by Thomas Reuters
- (25) "Excited-State Photophysics in a Low Band Gap Polymer with High Photovoltaic Efficiency." Stephen A. Miller, Andrew C. Stuart, Jordan M. Womick, Huaxing Zhou, **Wei You***, and Andrew M. Moran*. *J. Phys. Chem. C* **2011**, *115*, 2371.
- (24) "A Tale of Current and Voltage: Interplay of Band Gap and Energy Levels of Conjugated Polymers in Bulk Heterojunction Solar Cells." Huaxing Zhou, Liqiang Yang, Shubin Liu, and **Wei You***. *Macromolecules* **2010**, *43*, 10390.
- (23) "Quantitatively Analyzing the Influence of Side Chains on Photovoltaic Properties of Polymer-Fullerene Solar Cells." Liqiang Yang, Huaxing Zhou, and **Wei You***. *J. Phys. Chem. C* **2010**, *114*, 16793.
- (22) "Enhanced Photovoltaic Performance of Low Band Gap Polymers with Deep LUMO Levels." Huaxing Zhou, Liqiang Yang, Samuel C. Price, Kelly Jane Knight, and **Wei You***. *Angew. Chem., Int. Ed.* **2010**, *49*, 7992.
- (21) "A Weak Donor-Strong Acceptor Strategy to Design Ideal Polymers for Organic Solar Cells." Huaxing Zhou, Liqiang Yang, Sarah Stoneking, and **Wei You***. *ACS Appl. Mater. & Interfaces* **2010**, *2*, 1377.
- 1st "**Most Cited**" of all time and one of the "**Most Read**" in the past 12 months in *ACS Appl. Mater. & Interfaces*.
- (20) "Low Band Gap Polymers Based on Benzo[1,2-*b*:4,5-*b'*]dithiophene: Rational Design of Polymers Leads to High Photovoltaic Performance." Samuel C. Price, Andrew C. Stuart, and **Wei You***. *Macromolecules* **2010**, *43*, 4609.
- Among the "**Most Cited**" of past three years in *Macromolecules*.
- (19) "Conjugated Polymer Based on Polycyclic Aromatics for Bulk Heterojunction Organic Solar Cells: A Case Study of Quadra Thieno Naphthalene Polymers with 2% Efficiency."

Shengqiang Xiao, Andrew C. Stuart, Shubin Liu, Huaxing Zhou, and **Wei You***. *Adv. Funct. Mater.* **2010**, *20*, 635.

- (18) "Donor-Acceptor Polymers Incorporating Alkylated Dithienyl Benzothiadiazole for Bulk Heterojunction Solar Cells: Pronounced Effect of Positioning Alkyl Chains." Huaxing Zhou, Liqiang Yang, Shengqiang Xiao, Shubin Liu, and **Wei You***. *Macromolecules* **2010**, *43*, 811.
- (17) "Polycyclic Aromatics with Flanking Thiophenes: Tuning Energy Level and Band Gap of Conjugated Polymers for Bulk Heterojunction Photovoltaics." Samuel C. Price, Andrew C. Stuart, and **Wei You***. *Macromolecules* **2010**, *43*, 797.
- (16) "Recent Progress on Organic Solar Cells Research", Jianfeng Zhang, Huaxing Zhou, and **Wei You***. *Journal of Hefei University (Natural Sciences)*, **2009**, *19*, 1. (invited review)
- (15) "Metal-Molecule-Metal Junctions via PFPE Assisted Nanotransfer Printing (nTP) onto Self-Assembled Monolayers." Jeremy R. Niskala, and **Wei You***. *J. Am. Chem. Soc.* **2009**, *131*, 13202.
- (14) "Conjugated Polymers Based on Benzo[2,1-*b*:3,4-*b'*]dithiophene with Low-Lying Highest Occupied Molecular Orbital Energy Levels for Organic Photovoltaics" Shengqiang Xiao, Andrew C. Stuart, Shubin Liu, and **Wei You***. *ACS Appl. Mater. & Interfaces* **2009**, *1*, 1613.
- (13) "Conjugated Polymers of Fused Bithiophenes with Enhanced π -Electron Delocalization for Photovoltaic Applications." Shengqiang Xiao, Huaxing Zhou, and **Wei You***. *Macromolecules*, **2008**, *41*, 5688.
- (12) "Comprehensive Investigation of Self-Assembled Monolayer Formation on Ferromagnetic Thin Film Surfaces." Paul G. Hoertz, Jeremy R. Niskala, Peng Dai, Hayden T. Black, and **Wei You***. *J. Am. Chem. Soc.* **2008**, *130*, 9763.

Graduate and Postdoctoral Research

- (11) "Lyotropic Liquid-Crystalline Solutions of High-Concentration Dispersions of Single-Walled Carbon Nanotubes with Conjugated Polymers." Hang Woo Lee, **Wei You**, Soumendra Barman, Sondra Hellstrom, Melburne C. LeMieux, Joon Hak Oh, Shuhong Liu, Takenori Fujiwara, Wechung Maria Wang, Bin Chen, Yong Wan Jin, Jong Min Kim, and Zhenan Bao. *Small* **2009**, *5*, 1019.
- (10) "Selective crystallization of organic semiconductors on patterned templates of carbon nanotubes." Shuhong Liu, Alejandro L. Briseno, Stefan C. B. Mannsfeld, **Wei You**, Jason Locklin, Hang Woo Lee, Younan Xia, and Zhenan Bao. *Adv. Funct. Mater.* **2007**, *17*, 2891.
- (9) "Inversion of the Rectifying Effect in Diblock Molecular Diodes by Protonation." Gustavo M. Morales, Ping Jiang, Shenwen Yuan, Youngu Lee, Arturo Sanchez, **Wei You**, and Luping Yu. *J. Am. Chem. Soc.* **2005**, *127*, 10456.

- (8) "Pronounced Photorefractive Effect at Wavelength over 1000 nm in Monolithic Organic Materials." **Wei You**, Zhanjia Hou and Luping Yu. *Appl. Phys. Lett.* **2005**, *86*, 151906.
- (7) "Effect of a Trapping Molecule on the Monolithic Organic Photorefractive Materials." Zhanjia Hou, **Wei You** and Luping Yu. *Appl. Phys. Lett.* **2004**, *85*, 5221.
- (6) "Synthesis of Diode Molecules and Their Sequential Assembly to Control Electron Transport." Ping Jiang, Gustavo M. Morales, **Wei You** and Luping Yu. *Angew. Chem., Int. Ed.* **2004**, *43*, 4471.
- (5) "Dramatic Enhancement of Photorefractive Properties by Controlling Electron Trap Density in a Monolithic Material." **Wei You**, Zhanjia Hou and Luping Yu. *Adv. Mater.* **2004**, *16*, 356.
- (4) "Supramolecular Self-Assembly of Conjugated Diblock Copolymers." Hengbin Wang, **Wei You**, Ping Jiang, Luping Yu and Hau H. Wang. *Chemistry-A European Journal* **2004**, *10*, 986.
- (3) "Fully Functionalized Photorefractive Polymer with Infrared Sensitivity Based on Novel Chromophores." **Wei You**, Shaokui Cao, Zhanjia Hou and Luping Yu. *Macromolecules* **2003**, *36*, 7014.
- (2) "Fine-Tuning Photorefractive Properties of Monolithic Molecular Materials." Zhanjia Hou, **Wei You** and Luping Yu. *Appl. Phys. Lett.* **2003**, *82*, 3385.
- (1) "Synthesis and Structure/Property Correlation of Fully Functionalized Photorefractive Polymers." **Wei You**, Liming Wang, Qing Wang and Luping Yu. *Macromolecules* **2002**, *35*, 4636.

c. Patents

- (1) "Polymers with Tunable Band Gaps for Photonic and Electronic Applications." **Wei You**. US Patent Application. US 2013/0092912 A1. Published Date April 18, 2013

d. Meeting Proceedings (including students' presentations/preprints)

Independent Research (as PI at UNC CH)

- (13) "The design and synthesis of a thienothiazole-based polymer for organic solar cells." Rysel Uy, Liqiang Yang, and **Wei You***. *Polymer Preprints* **2011**, *52(2)*, 940.
- (12) "Enhance photovoltaic performances of polymers with low-lying lumo levels and reduced band gap." Huaxing Zhou, Liqiang Yang, and **Wei You***. *Polymer Preprints* **2011**, *52(2)*, 949-950.
- (11) "High photovoltaic performance of low band gap copolymers based upon benzo[1,2-b:4,4-b']dithiophene." Samuel C. Price, Andrew C. Stuart, and **Wei You***. *Polymer Preprints* **2011**,

52(1), no pp.

- (10) "Donor-Acceptor Polymers Incorporating Alkylated Dithienyl Benzothiadiazole." Huaxing Zhou, Liqiang Yang, and **Wei You***. *Polymer Preprints* **2010**, 51(2), 227-228.
- (9) "Rational Design of Low Band Gap Polymers Leads to High Photovoltaic Performance." **Wei You***. *PMSE Preprints* **2009**, 101, no pp.
- (8) "Conjugated Polymers Based on Benzo[2,1-b:3,4-b']dithiophene with Low-Lying Highest Occupied Molecular Orbital Energy Levels for Organic Photovoltaics." Shengqiang Xiao, Andrew C. Stuart, and **Wei You***. *PMSE Preprints* **2009**, 101, 1535-1536.
- (7) "Engineering bandgap and energy levels of conjugated polymers for organic solar cells: Fused bithiophenes." Shengqiang Xiao, Huaxing Zhou, Andrew C. Stuart, and **Wei You***. *PMSE Preprints* **2009**, 100, 741-743.

Graduate and Postdoctoral Research

- (6) "Conjugated polymer and carbon nanotube dispersion forming lyotropic liquid crystalline phase and transparent electrodes." Zhenan Bao, Hangwoo Lee, **Wei You**, Sondra Hellstrom, Soumendra Barman, Melburne LeMieux. *Polymer Preprints* **2009**, 50(1), NA
- (5) "Fully Functionalized Photorefractive Polymer Based on Novel Chromophores." **Wei You**, Shaokui Cao, Zhanjia Hou and Luping Yu. *Polymer Preprints* **2004**, 45(2), 85.
- (4) "Synthesis and Structure/Property Correlation of Cyano Substituted Oligo(phenylene vinylene)s." Hengbin Wang, **Wei You** and Luping Yu. *Polymer Preprints* **2004**, 45(1), 187.
- (3) "Fine Tuning Photorefractive Properties of Molecular Photorefractive Materials." **Wei You**, Zhanjia Hou and Luping Yu. *Polymer Preprints* **2003**, 44(2), 697.
- (2) "Progress in Fully Functionalized Organic Photorefractive Materials." Man-Kit Ng, Liming Wang, **Wei You** and Luping Yu. *Proceedings of SPIE* **2002**, 4462 (Nonlinear Optical Transmission Processes and Organic Photorefractive Materials) 139.
- (1) "Novel Synthesis of Electron-Deficient PPV and Its Application for Photorefractive Materials." **Wei You**, Liming Wang and Luping Yu. *Polymer Preprints* **2002**, 43(2), 525.

6. SEMINARS and PRESENTATIONS

a. Invited Presentations

- (29) Materials Research Society Spring Meeting, San Francisco, CA April 23, 2014
- (28) 3rd Symposium on Organic Photovoltaics at Kent State University April 16, 2014
Kent, OH
- (27) American Chemical Society Spring 2013 National Meeting March 18, 2014
Dallas, TX

(26)	American Chemical Society Spring 2013 National Meeting Dallas, TX	March 16, 2014
(25)	2013 WUT International Symposium on Advanced Optoelectronic Materials and Devices, Wuhan, China	October 15, 2013
(24)	Joint AFOSR and ONR Organic Photovoltaics Program Review Arlington, VA	May 21, 2013
(23)	Eastman Chemicals, Kingsport, TN	May 8, 2013
(22)	American Chemical Society Spring 2013 National Meeting San Diego, CA	April 9, 2013
(21)	Duke 2012-2013 FIP Annual Symposium, Durham, NC	March 12, 2013
(20)	Dreyfus Foundation Teacher-Scholar Symposium (Poster) New York City, NY	October 26, 2012
(19)	NSF/ONR Workshop on Next Generation Organic Solar Cell Arlington, VA	September 21, 2012
(18)	Sungkyun International Solar Forum 2012, Seoul, Korea	May 31, 2012
(17)	ONR Organic/Hybrid Photovoltaics Program Review Arlington, VA	May 25, 2012
(16)	American Chemical Society Spring 2012 National Meeting San Diego, CA	March 27, 2012
(15)	SPIE Organic Photovoltaics XII, San Diego, CA	August 24, 2011
(14)	Joint Navy Air Force Organic Hybrid Solar Cell Research Program Review, National Harbor, MD	June 28, 2011
(13)	Konarka Technologies, Lowell, MA	November 2, 2010
(12)	Oak Ridge Organic Photovoltaics Workshop Oak Ridge National Lab, TN	September 15, 2010
(11)	American Chemical Society 239 th National Meeting San Francisco, CA (in POLY/PMSE Young Investigator Symposium)	March 23, 2010
(10)	Nano Conferences, Wake Forest University Wake Forest, NC	October 19, 2009
(9)	MRS Student Chapter, UNC Chapel Hill	August 25, 2009
(8)	Joint Navy Air Force Organic Hybrid Solar Cell Research Program Review, National Harbor, MD	May 19, 2009
(7)	External Advisory Board Meeting of Chemistry Department UNC Chapel Hill	May 15, 2009
(6)	American Chemical Society 237 th National Meeting Salk Lake City, UT	March 24, 2009
(5)	SERC Annual Symposium: "Securing our Energy Future – Next Generation Photovoltaics & Solar Fuels", Chapel Hill, NC	January 16, 2009
(4)	The Arizona Research Institute for Solar Energy-PV 2008 Workshop, Esplendor Resort at Rio Rico, AZ	October 29, 2008
(3)	The 3 rd International Symposium on Polymer Chemistry PC' 2008, Hefei, China	June 17, 2008
(2)	4 th Japan-US Young Researcher Exchange Symposium Tohoku University, Sendai, Japan	May 30, 2007

- (1) 4th Japan-US Young Researcher Exchange Symposium March 7, 2007
UNC Charlotte, Charlotte, NC
- b. Departmental Seminar**
- (34) Department of Chemistry, University of Tennessee, Knoxville April 3, 2014
- (33) Department of Chemistry, East Carolina University April 5, 2013
- (32) Department of Materials Science and Engineering Feb 6, 2013
University of Florida
- (31) State Key Lab of Advanced Technology for Materials Synthesis and Processing Wuhan University of Technology November 6, 2012
- (30) Department of Polymer Science & Engineering June 12, 2012
Zhejiang University, China
- (29) Pusan National University (Pusan, South Korea) June 5, 2012
- (28) Postech (Pohang, South Korea) June 5, 2012
- (27) DGIST (Daegu, South Korea) June 4, 2012
- (26) Department of Chemistry & Chemical Biology, U. of New Mexico April 27, 2012
- (25) Department of Chemistry, UNC Charlotte March 18, 2012
- (24) Center for Functional Nanomaterials, Brookhaven National Lab January 23, 2012
- (23) Department of Chemistry, Duke University October 4, 2011
- (22) School of Science, Anhui Agricultural University, China June 1, 2011
- (21) Department of Polymer Science & Engineering, USTC, China May 13, 2011
- (20) Department of Polymer Science & Engineering, U. Mass Amherst April 22, 2011
- (19) Department of Chemistry, Northwestern University April 8, 2011
- (18) Materials Science Program, U. of Wisconsin March 10, 2011
- (17) Department of Chemistry, U. of Southern California March 8, 2011
- (16) Department of Chemistry, Caltech March 7, 2011
- (15) Department of Chemistry, U. of Michigan February 15, 2011
- (14) Industrial Partnership for Research in Interfacial and Materials Engineering (IPrime) University of Minnesota November 18, 2010
- (13) Research Laboratory of Electronics, MIT November 7, 2010
- (12) Department of Chemistry & Chemical Biology, Rensselaer Polytechnic Institute October 19, 2010
- (11) Department of Chemistry, U. of Chicago October 1, 2010
- (10) Department of Materials Science & Engineering, U. of Tennessee at Knoxville September 16, 2010
- (9) Department of Chemistry, U. of Washington May 25, 2010
- (8) Department of Chemistry, Penn State University March 1, 2010
- (7) Department of Chemistry, Appalachian State University November 6, 2009
- (6) Department of Chemistry, U. of Nevada, Las Vegas October 23, 2009
- (5) Department of Chemistry, Loyola University of Chicago March 26, 2009
- (4) Department of Chemistry, NC A&T State University, Greensboro February 26, 2009
- (3) Department of Chemistry, U. of Georgia October 16, 2008
- (2) Department of Physics, North Carolina State University November 19, 2007
- (1) Department of Chemistry, UNC-Chapel Hill September 7, 2006

c. Other Presentations

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| (3) | American Chemical Society 238 th National Meeting
Washington, DC | August 19, 2009 |
| (2) | Gordon Research Conference: Polymers
Mount Holyoke College, South Hadley, MA (poster) | June 23, 2009 |
| (1) | Materials Research Society Spring Meeting, San Francisco, CA | March 26, 2008 |

7. TEACHING RECORD

a. Course Assignments

- | | | |
|------|-------------|--|
| (15) | Spring 2014 | CHEM 721 "Polymer/Materials Seminar" (16 students) |
| (14) | Fall 2013 | CHEM 421 "Polymer Synthesis" (24 students) |
| (13) | Summer 2013 | CHEM 261 "Introduction to Organic Chemistry (I)" (18 students) |
| (12) | Spring 2013 | CHEM 521 "Polymer Lab" (7 students) |
| (11) | Fall 2012 | CHEM 421 "Polymer Synthesis" (32 students), and 20+ Chinese students |
| (10) | Spring 2012 | CHEM 764 Special Topic in Organic Chemistry: Organic Electronics and Photonics" (4 registered, total 10 sitting in the class) |
| (9) | Fall 2011 | CHEM 421 "Polymer Synthesis" (30 students), and 50+ Chinese students |
| (8) | Fall 2010 | CHEM 421 "Polymer Synthesis" (35 students) |
| (7) | Spring 2010 | CHEM 262 "Introduction to Organic Chemistry (II)" (143 students) |
| (6) | Fall 2009 | CHEM 421 "Polymer Synthesis" (30 students) |
| (5) | Spring 2009 | CHEM 764 Special Topic in Organic Chemistry: Organic Electronics and Photonics" (6 students) |
| (4) | Fall 2008 | CHEM 421 "Polymer Synthesis" (38 students) |
| (3) | Spring 2008 | CHEM 262 "Introduction to Organic Chemistry (II)" (113 students) |
| (2) | Fall 2007 | CHEM 421 "Polymer Synthesis" (35 students) |
| (1) | Spring 2007 | CHEM 764 "Special Topic in Organic Chemistry: Organic Electronics and Photonics" (5 registered, total 20 sitting in the class) |

b. Dissertation and Theses

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|------|-------------------|---------------------------------------|
| (12) | Maggie Radack | Undergraduate Honor Thesis (May 2014) |
| (11) | Erik Thiede | Undergraduate Honor Thesis (May 2013) |
| (10) | Liqiang Yang | PhD (July 2012) |
| (9) | Andrew Stuart | PhD (July 2012) |
| (8) | Rui Jin | MS (May 2012) |
| (7) | James Blair | MS (December 2011) |
| (6) | Huaxing Zhou | PhD (November 2011) |
| (5) | Samuel C. Price | PhD (May 2011) |
| (4) | Jeremy R. Niskala | PhD (December 2010) |
| (3) | Kelly Jane Knight | Undergraduate Thesis (September 2010) |
| (2) | Nabil Kleinhenz | Undergraduate Honor Thesis (May 2010) |
| (1) | Peng Dai | MS (KTH, Sweden) |

c. Research Group

Current Group

Postdoctoral Scholar

(1) Liang Yan 12/2011 – present PhD: University of Tennessee, Knoxville

Graduate Students

(12) Jason Dyke 5th Year BS: Indiana University
(11) Wentao Li 4th Year BS: USTC (China)
(10) Travis LaJoie 4th Year BS: University of Florida
(9) Robert Bruce 4th Year BS: Cornell University
(8) Josh Yablonski 4th Year BS: Millersville University
(7) Sam Anderson 3rd Year BS: University of Rochester
(6) Adam Alman 3rd Year BS: Central Washington University
(5) Allison Kelly 2nd Year BS: University of Maryland Baltimore County
(4) Qianqian Zhang 2nd Year BS: USTC (China)
(3) Elizabeth Keenan 1st Year BS: University of Michigan, Ann Arbor
(2) Huamin Hu 1st Year BS: USTC (China)
(1) David Dirkes 1st Year BS: University of Kentucky

Undergraduate Students

(1) Maggie Radack 01/2012 – present Class of 2014
(2) Joseph Nenow 08/2013 – present Class of 2015

Visiting Student

(1) Seunghun Eom 06/2012 – present visiting student from Chungbuk National University, South Korea

Volunteer

(1) Graham Gash 01/2011 – present retiree from UNC Chapel Hill

Former Members

Postdoctoral Scholars

(3) Liqiang Yang 08/2012 – present PhD: UNC at Chapel Hill
Current position: Staff Scientist at Cree
(2) Dr. Shengqiang Xiao 11/2006 – 08/2008 PhD: Chinese Academy of Science
Current position: Professor at Wuhan University of Technology
(1) Dr. Paul Hoertz 02/2007 – 08/2008 PhD: Johns Hopkins University
Current position: Research Staff at RTI

Graduate Student

(8) Rycel Uy PhD, 06/2013, UNC-CH Current: BAE Systems
(7) Liqiang Yang PhD, 07/2012, UNC-CH Current: Cree
(6) Andrew Stuart PhD, 07/2012, UNC-CH Current: startup
(5) Rui Jin MS, 05/2012, UNC-CH Current: NA
(4) James Blair MS, 12/2011, UNC-CH Current: medical leave

(3)	Huaxing Zhou	PhD, 11/2011, UNC-CH	Current: postdoc at MIT
(2)	Sam Price	PhD, 05/2011, UNC-CH	Current: postdoc at ARL
(1)	Jeremy Niskala	PhD, 12/2010, UNC-CH	Current: Intel

Undergraduate Students

(16)	Luke Ellis	08/2012 – 05/2013	Class of 2013
(15)	Erik Thiede	08/2011 – 05/2013	Class of 2013
(14)	Matt Wilkins	08/2011 – 05/2012	Exchange student from University of Bristol, UK
(13)	Adam Rieth	08/2011 – 05/2012	Class of 2012
(12)	Betsy Melenbrink	01/2011 – 08/2011	Class of 2011
(11)	Phil Hamilton	08/2010 – 08/2011	Class of 2012
(10)	Michael Aubrey	08/2009 – 05/2011	Class of 2011
(9)	Matt Krattenmaker	08/2010 – 12/2010	Class of 2013
(8)	Rachel Zachary	08/2010 – 12/2010	Class of 2012
(7)	Marco Torelli	08/2009 – 05/2010	Class of 2010
(6)	Nabil Kleinhenz	08/2008 – 05/2010	Class of 2010
(5)	Kelly Jane Knight	08/2009 – 05/2010	Exchange student from University of Bristol, UK
(4)	Sarah Stoneking	08/2008 – 05/2009	Class of 2010
(3)	Michael Feng (Duke)	summer 2008, REU	
(2)	Kevin Pfeuffer	01/2007 – 05/2007	BS: UNC Chapel Hill Class of 2008
(1)	Rakjoon Jeon	01/2007 – 03/2007	BS: UNC Chapel Hill Class of 2008

High School Students

(1)	Dalana Mack	Summer 2008 (10 weeks)	Project SEED
(1)	Darren Zhu	Summer 2008 (3 weeks)	RECAP

Visiting Scholar

(1)	Dr. Soo-Hyoung Lee	01/2012 – 07/2013	visiting professor from Chungbuk National University, South Korea
(2)	Dr. Jianfeng Zhang	09/2008 – 02/2009	visiting professor from Ningbo University, China

Visiting Students

(2)	Yanni Jie	09/2009 – 03/2012	visiting student from Northwest Polytechnic University, China
(1)	Peng Dai	10/2007 – 05/2008	visiting student from KTH, Sweden

Awards, Honors, and Special Achievements

(19)	Elizabeth Keenan (graduate student)	NSF Graduate Fellowship
(18)	Maggie Radack (undergraduate)	Poster Award, NC-ACS meeting
(17)	Maggie Radack (undergraduate)	Jason D. Altom Memorial Award for Undergraduate Research

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|------|----------------------------------|---|
| (16) | Jason Dyke (graduate students) | Graduate Student Mentoring Award |
| (15) | Adam Alman (graduate student) | Carolina Energy Fellowship |
| (14) | Maggie Radack (undergraduate) | Gertrude Elion NC-ACS Undergraduate Scholarship Award |
| (13) | Jason Dyke (graduate student) | Eastman Fellowship |
| (12) | Robert Bruce (graduate student) | Richard G. Hiskey Graduate Fellowship |
| (11) | Sam Anderson (graduate student) | NSF Graduate Fellowship |
| (10) | Travis LaJoie (graduate student) | NSF Graduate Fellowship |
| (9) | Rycel Uy (graduate student) | PMSE Poster Award, ACS Meeting, August 2011 |
| (8) | Huaxing Zhou (graduate student) | Francis Preston Venable Award |
| (7) | Huaxing Zhou (graduate student) | ACS POLY Travel Award |
| (6) | Darren Zhu (RECAP student) | Davidson Fellow 2009 |
| (5) | Sam Price (graduate student) | Carolina Energy Fellowship 2009-2011 |
| (4) | Nabil Kleinhenz (undergraduate) | Ernest Eliel Undergraduate Scholarship 2009 |
| (3) | Paul G. Hoertz (postdoc) | UNC Postdoctoral Scholar Research Award 2008 |
| (2) | Sam Price (graduate student) | Applied Materials graduate fellowship 2008-2009 |
| (1) | Darren Zhu (RECAP student) | Siemens competition, semi-finalist 2008 |

8. PROFESSIONAL SERVICES

a. Service to discipline

- (19) National Science Foundation, Panelist, March 2014
- (18) National Science Foundation, STC site visit, April 2013
- (17) National Science Foundation, Panelist, April 2013
- (16) National Science Foundation, Panelist, March 2013
- (15) National Science Foundation, Panelist, March 2012
- (14) session Chair, "Solar Fuels: Photonic Assemblies, Materials and Catalysts", SERMACS, November 14-15, 2012, Raleigh, NC
- (13) co-Chair, NSF / ONR Workshop on "Key Scientific and Technological Issues for the Development of Next Generation Organic Solar Cells", September 20-21, 2012, Arlington, VA
- (12) National Science Foundation, Panelist, April 2012
- (11) co-Chair, MRS Spring 2012 Meeting Symposium Z: Conjugated Organic Materials – Synthesis, Structure, Device, and Applications, April 9-13, 2012, San Francisco, CA
- (10) National Science Foundation, Panelist, October 2011
- (9) Organizer, 8th National Graduate Research Polymer Conference, June 6-9, 2010, Chapel Hill, NC
- (8) National Science Foundation, Panelist, March 2010
- (7) National Science Foundation, Panelist, March 2009
- (6) National Science Foundation, Panelist, February 2009
- (5) co-Chair, MRS Spring 2008 Meeting Symposium AA: Conjugated Organic Materials – Synthesis, Structure, Device, and Applications, March 24-28, 2008, San Francisco, CA
- (4) National Science Foundation, Panelist, November 2007
- (3) Lecture at American Chemical Society's "Preparing for Life after Graduate School (PFLAGS), UNC Chapel Hill, May 3, 2007

- (2) Co-Organizer, the Annual Upper Midwest MRSEC Student Symposium 2003, May 2003, Chicago, IL
- (1) Reviewer of research proposals submitted to the National Science Foundation, Department of Energy, ACS Petroleum Research Fund, AAAS, and Hong Kong Research Council

b. Departmental services

- (8) Faculty Search Committee for Dept. of Applied Physical Sciences, 2014
- (7) Faculty Search Committee, 2012-2013 (hired Lockett, Hicks)
- (6) Vice Chair for Research, 2012 – present
- (5) Facility Committee, 2011 – 2012
- (4) Faculty Search Committee, 2010-2011 (hired Kanai, Cahoon, Meek, Dempsey, Miller)
- (3) Point of Contact for “*Tier 1 Polymer Focus School*” of Eastman Chemical
- (2) Graduate Study Committee, 2006 – 2012
- (1) Faculty Advisor to Alpha Eta Chapter (at UNC-CH) of Gamma Sigma Epsilon Gamma Sigma Epsilon , the National Chemistry Honor Society, 2008 – present

c. University service

- (3) Faculty Council, 2014 – present (elected, 3 year term)
- (2) Faculty Council, 2011 – 2014 (elected, 3 year term)
- (1) University Teaching Award Committee, 2011-2012

d. Services to the public

- (8) Participating in UNC Science Expo, April 12, 2014
- (7) Participating in UNC Science Expo, April 9, 2013
- (6) Participating in UNC Science Expo, April 14, 2012
- (5) Participated in the Center for Faculty Excellence interview project, October 2012
- (4) Lecture at NC Science Expo, September 25, 2010
- (3) Participating in the Climate LEAP program every summer (2009, 2010, 2011, 2012)
- (2) Advisor for a *Science 360* Program on Organic Solar Cells, Morehead Planetarium
- (1) North Carolina Science Festival, brown bag lunch and discussion, September 21, 2010