

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. EDUCATION

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

2. PROFESSIONAL EXPERIENCE

2017-present Professor of Chemistry, University of North Carolina, Chapel Hill, NC
2017-present Editorial Advisory Board, *ACS Applied Energy Materials* (American Chemical Society),
2017-present Editorial Advisory Board, *Macromolecules* (American Chemical Society)
2013-present Associate Editor, *Polymer Chemistry* (Royal Society of Chemistry)
2012-2017 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, Dept. of Chem. Eng., Stanford University, Stanford, CA
1999-2004 Graduate Assistant, Department of Chemistry, University of Chicago, Chicago, IL

3. HONORS and MEMBERSHIPS

Honors and Awards

2019 "World Highly Cited Researchers" by Web of Science Group
2019 Nano Research Young Innovator Award in Nanoenergy, Springer
2017 Fellow of Royal Society of Chemistry (FRSC)
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

4. PUBLICATIONS

a. Book Chapters

- (5) "Design and Synthesis of Conjugated Polymers for Solar Cells." Mary Allison Kelly, Qianqian Zhang, Nicole Bauer and **Wei You***, in "World Scientific Handbook of Organic Optoelectronic Devices," **2018**, World Scientific.
- (4) "Molecular Design of Conjugated Polymers for High-Efficiency Solar Cells." Liqiang Yang, Huaxing Zhou, Andrew C. Stuart, and **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." Shengqiang Xiao, Samuel C. Price, Huaxing Zhou, and **Wei You***. *ACS Symp. Ser.* **2010**, 1034, 71 (invited review).

b. Refereed Papers (citations: >14,000, H index: 51)

Google scholar: https://scholar.google.com/citations?user=o_z_zNcAAAAJ&hl=en
ORCID: <https://orcid.org/0000-0003-0354-1948>

Independent Research (as PI at UNC-CH)

- (140) "Imaging Excited State Dynamics in Layered 2D Perovskites with Transient Absorption Microscopy." Olivia F Williams, Ninghao Zhou, Jun Hu, Zhenyu Ouyang, Amar Kumbhar, **Wei You**, Andrew M Moran.* *J. Phys. Chem. A* **2019** ASAP (DOI: 10.1021/acs.jpca.9b08852)
- (139) "Nonlinear Photocurrent Spectroscopy of Layered 2D Perovskite Quantum Wells." Ninghao Zhou, Jun Hu, Zhenyu Ouyang, Olivia F. Williams, Liang Yan, **Wei You**, Andrew M. Moran* *J. Phys. Chem. Lett.* **2019**, 10, 7362-7367. (DOI: 10.1021/acs.jpcllett.9b02959)
- (138) "Enhancing Photovoltaic Performance of Aromatic Ammonium based Two - Dimensional Organic - Inorganic Hybrid Perovskites via Tuning CH \cdots π Interaction" Liang Yan, Jun Hu, Ninghao Zhou, Andrew M Moran, **Wei You**.* *Solar RRL*, **2019**, ASAP (DOI: 10.1002/solr.201900374)

- (137) “Effect of Cyano Substitution on Conjugated Polymers for Bulk Heterojunction Solar Cells.” Qianqian Zhang, Jeromy James Rech, Liang Yan, Quanbin Liang, Zhengxing Peng, Harald Ade, Hongbin Wu, **Wei You**.* *ACS Appl. Polym. Mater.* **2019**, *1*, 3313-3322. (DOI: 10.1021/acsapm.9b00767)
- (136) “Resolving rotational stacking disorder and electronic level alignment in a 2D oligothiophene-based lead iodide perovskite.” Manoj K Jana, Chi Liu, Sven Lidin, David J Dirkes, **Wei You**, Volker Blum, David B Mitzi.* *Chem. Mater.* **2019**, *31*, 8523-8532. (DOI: 10.1021/acs.chemmater.9b03208)
- (135) “Tunable internal quantum well alignment in rationally designed oligomer-based perovskite films deposited by resonant infrared matrix-assisted pulsed laser evaporation.” Wiley Dunlap-Shohl, E Tomas Barraza, Andrew Barrette, Seyitliyev Dovletgeldi, Gamze Findik, David Dirkes, Chi Liu, Manoj K Jana, Volker Blum, **Wei You**, Kenan Gundogdu, Adrienne Stiff-Roberts, David B Mitzi.* *Mater. Horiz.* **2019**, *6*, 1707-1716 (DOI: 10.1039/C9MH00366E)
- (134) “Utilizing Difluorinated Thiophene Units To Improve the Performance of Polymer Solar Cells.” Jeromy J Rech, Liang Yan, Zhengxing Peng, Shuixing Dai, Xiaowei Zhan, Harald Ade, and **Wei You***. *Macromolecules* **2019**, *52*, 6523-6532. (DOI: 10.1021/acs.macromol.9b01168)
- (133). “The impact of fluorination on both donor polymer and non-fullerene acceptor: The more fluorine, the merrier.” Nicole Bauer, Qianqian Zhang, Jeromy James Rech, Shuixing Dai, Zhengxing Peng, Harald Ade, Jiayu Wang, Xiaowei Zhan, and **Wei You***. *Nano Research* **2019**, *12*, 2400-2405. (DOI: 10.1007/s12274-019-2362-3)
- (132) “The Importance of Entanglements in Optimizing the Mechanical and Electrical Performance of All-polymer Solar Cells.” Nrup Balar, Jeromy James Rech, Reece Henry, Long Ye, Harald Ade, **Wei You**, and Brendan T. O'Connor*. *Chem. Mater.* **2019**, *31*, 5124-5132. (DOI: 10.1021/acs.chemmater.9b01011)
- (131) “Aryl-Perfluoroaryl Interaction in Two-Dimensional Organic-Inorganic Hybrid Perovskites Boosts Stability and Photovoltaic Efficiency.” Jun Hu, Iain WH Oswald, Huamin Hu, Samuel J Stuard, Masrur Morshed Nahid, Liang Yan, Zheng Chen, Harald Ade, James R Neilson, and **Wei You***. *ACS Materials Lett.* **2019**, *1*, 171-176. (DOI: 10.1021/acsmaterialslett.9b00102)
- (130) “The Recombination between Photogenerated and Electrode-Induced Charges Dominates the Fill Factor Losses in Optimized Organic Solar Cells.” Uli Würfel, Lorena Perdigón Toro, Jona Kurpiers, Christian M Wolff, Pietro Caprioglio, Jeromy James Rech, Jingshuai Zhur, Xiaowei Zhan, **Wei You**, Safa Shoaee, Dieter Neher, Martin Stollerfoht*. *J. Phys. Chem. Lett.* **2019**, *10*, 3473–3480. (DOI: 10.1021/acs.jpcllett.9b01175)
- (129) “A Direct-Bandgap 2D Silver-Bismuth Iodide Double Perovskite: The Structure-Directing Influence of an Oligothiophene Spacer Cation.” Manoj K Jana, Svenja M Janke, David J Dirkes, Seyitliyev Dovletgeldi, Chi Liu, Xixi Qin, Kenan Gundogdu, **Wei You**, Volker Blum, and David B Mitzi*. *J. Am. Chem. Soc.* **2019**, *141*, 7955–7964. (DOI: 10.1021/jacs.9b02909)
- (128) “Alcohol mediated degenerate chain transfer controlled cationic polymerisation of para-

- alkoxystyrene.” Alka Prasher, Huamin Hu, Joji Tanaka, David Nicewicz, and **Wei You***. *Polym. Chem.*, **2019**, *10*, 4126-4133. (DOI: 10.1039/C9PY00480G)
- (127) “The crucial role of end group planarity for fused-ring electron acceptors in organic solar cells.” Jeromy Rech, Nicole Bauer, David Dirkes, Joseph Kaplan, Zhengxing Peng, Huotian Zhang, Long Ye, Shubin Liu, Feng Gao, Harald Ade, and **Wei You***. *Mater. Chem. Front.* **2019**, *3*, 1642-1652. (DOI: 10.1039/C9QM00314B)
- (126) “Delineation of Thermodynamic and Kinetic Factors that Control Stability in Non-fullerene Organic Solar Cells.” Masoud Ghasemi, Huawei Hu, Zhengxing Peng, Jeromy James Rech, Indunil Angunawela, Joshua H Carpenter, Samuel J Stuard, Andrew Wadsworth, Iain McCulloch, **Wei You**, Harald Ade*. *Joule*, **2019**, *3*, 1328-1348. (DOI:10.1016/j.joule.2019.03.020)
- (125) “Synthetic control over orientational degeneracy of spacer cations enhances solar cell efficiency in two-dimensional perovskites.” Jun Hu, Iain WH Oswald, Samuel J Stuard, Masrur Morshed Nahid, Ninghao Zhou, Olivia F Williams, Zhenkun Guo, Liang Yan, Huamin Hu, Zheng Chen, Xun Xiao, Yun Lin, Zhibin Yang, Jinsong Huang, Andrew M Moran, Harald Ade, James R Neilson, **Wei You***, *Nature Communications* **2019**, *10*, 1276 (DOI: 10.1038/s41467-019-08980-x)
- (124) “Enhanced Charge Transport in 2D Perovskite via Fluorination of Organic Cation.” Fei Zhang, Dong Hoe Kim, Haipeng Lu, Ji-Sang Park, Bryon Larson, Jun Hu, Liguao Gao, Chuanxiao Xiao, Obadiah Reid, Xihan Chen, Qian Zhao, Paul F Ndione, Joseph J Berry, **Wei You**, Aron Walsh, Matthew C Beard, Kai Zhu.* *J. Am. Chem. Soc.*, **2019**, *141*, 5972–5979. (DOI: 10.1021/jacs.9b00972)
- (123) “Highly Efficient, Stable, and Ductile Ternary Nonfullerene Organic Solar Cells from a Two Donor Polymer Blend.” Huawei Hu, Long Ye, Masoud Ghasemi, Nrup Balar, Jeromy James Rech, Samuel J Stuard, **Wei You**, Brendan T O'Connor, Harald Ade.* *Adv. Mater.* **2019**, *31*, 1808279. (DOI:10.1002/adma.201808279)
- (122) “Sequential Deposition of Organic Films with Eco Compatible Solvents Improves Performance and Enables Over 12% Efficiency Nonfullerene Solar Cells.” Long Ye,* Yuan Xiong, Zheng Chen, Qianqian Zhang, Zhuping Fei, Reece Henry, Martin Heeney, Brendan T O'Connor, **Wei You**,* Harald Ade.* *Adv. Mater.* **2019**, *31*, 1808153. (DOI: 10.1002/adma.201808153)
- (121) “Green Solvent Processed Conjugated Polymers for Organic Solar Cells: The Impact of Oligoethylene Glycol Side Chains.” Zheng Chen,* Liang Yan, Jeromy James Rech, Jun Hu, Qianqian Zhang, **Wei You**.* *ACS Appl. Polym. Mater.*, **2019**, *1*, 804–814. (DOI: 10.1021/acsp.9b00044)
- (120) “Competition between Exceptionally Long Range Alkyl Sidechain Ordering and Backbone Ordering in Semiconducting Polymers and Its Impact on Electronic and Optoelectronic Properties.” Joshua H Carpenter, Masoud Ghasemi, Eliot Gann, Indunil Angunawela, Samuel J Stuard, Jeromy James Rech, Earl Ritchie, Brendan T O'Connor, Joanna Atkin, **Wei You**, Dean M DeLongchamp, Harald Ade.* *Adv. Funct. Mater.* **2019**, *29*, 1806977. (DOI: 10.1002/adfm.201806977)
- (119) “Panchromatic All Polymer Photodetector with Tunable Polarization Sensitivity.” Pratik

- Sen, Ruonan Yang, Jeromy J Rech, Yuanxiang Feng, Carr Hoi Yi Ho, Jinsong Huang, Franky So, R Joseph Kline, **Wei You**, Michael W Kudenov, Brendan T O'Connor.* *Adv. Optical Mater.* **2018**, 1801346. (DOI: 10.1002/adom.201801346)
- (118) “Perfluorocarbon-based O₂ nanocarrier for efficient photodynamic therapy.” Huamin Hu, Xuefeng Yan, Hui Wang, Joji Tanaka, Mengzhe Wang, **Wei You**,* Zibo Li.* *J. Mater. Chem. B*, **2019**, 7, 1116-1123. (DOI: 10.1039/C8TB01844H)
- (117) “Pairing 1D/2D-conjugation donors/acceptors towards high-performance organic solar cells.” Jiayu Wang, Yiqun Xiao, Wei Wang, Cenqi Yan, Jeromy Rech, Mingyu Zhang, **Wei You**, Xinhui Lu,* Xiaowei Zhan.* *Mater. Chem. Front.*, **2019**, 3, 276-283. (DOI: 10.1039/C8QM00512E)
- (116) “Revealing the Impact of FTCNQ as Additive on Morphology and Performance of High - Efficiency Nonfullerene Organic Solar Cells.” Yuan Xiong, Long Ye,* Abay Gadisa, Qianqian Zhang, Jeromy James Rech, **Wei You**, Harald Ade.* *Adv. Funct. Mater.* **2019**, 29, 1806262 (10.1002/adfm.201806262)
- (115) “End-cap Group Engineering of a Small Molecule Non-Fullerene Acceptor: The Influence of Benzothiophene Dioxide.” Hongda Cao, Nicole Bauer, Chao Pang, Jeromy Rech, **Wei You**, Paul A Rugar.* *ACS Appl. Energy Mater.*, **2018**, 1, 7146–7152. (DOI: 10.1021/acsaem.8b01576)
- (114) “Tunable Semiconductors: Control over Carrier States and Excitations in Layered Hybrid Organic-Inorganic Perovskites.” Chi Liu, William Huhn, Ke-Zhao Du, Alvaro Vazquez-Mayagoitia, David Dirkes, **Wei You**, Yosuke Kanai, David B Mitzi, Volker Blum. *Phys. Rev. Lett.* **2018**, 121, 146401 (DOI: 10.1103/PhysRevLett.121.146401)
- (113) “Shear-Enhanced Transfer Printing of Conducting Polymer Thin Films.” Pratik Sen, Yuan Xiong, Qianqian Zhang, Sungjune Park, **Wei You**, Harald Ade, Michael W. Kudenov, and Brendan T. O’Connor.* *ACS Appl. Mater. Interfaces* **2018**, 10, 31560–31567 (DOI: 10.1021/acsaem.8b09968)
- (112) “The finale of a trilogy: comparing terpolymers and ternary blends with structurally similar backbones for use in organic bulk heterojunction solar cells.” Mary Allison Kelly, Qianqian Zhang, Zhengxing Peng, Victoria Noman, Chenhui Zhu, Harald Ade and **Wei You**.* *J. Mater. Chem. A*, **2018**, 6, 19190–19200. (DOI: 10.1039/c8ta05132a)
- (111) “A Fused Ring Electron Acceptor with Decacyclic Core Enables over 13.5% Efficiency for Organic Solar Cells.” Dan He, Fuwen Zhao,* Jingming Xin, Jeromy James Rech, Zhixiang Wei,* Wei Ma, **Wei You**, Bao Li, Li Jiang, Yongfang Li, and Chunru Wang.* *Adv. Energy Mater.* **2018**, 1802050. (DOI: 10.1002/aenm.201802050)
- (110) “General Post-annealing Method Enables High-Efficiency Two-Dimensional Perovskite Solar Cells.” Liang Yan, Jun Hu, Zhenkun Guo, Hong Chen, Michael F. Toney, Andrew M. Moran,* and **Wei You**.* *ACS Appl. Mater. Interfaces* **2018**, 10, 33187–33197. (DOI: 10.1021/acsaem.8b10230)
- (109) “Two-Dimensional Organic–Inorganic Hybrid Perovskites: A New Platform for Optoelectronic Applications.” Jun Hu, Liang Yan, and **Wei You**.* *Adv. Mater.* **2018**, 1802041. (DOI: 10.1002/adma.201802041)

- (108) “Sensitivity of Molecular Packing and Photovoltaic Performance to Subtle Fluctuation of Steric Distortions within D–A Copolymer Backbones.” Jianhong Gao, Wei Wang, Shubin Liu, Chun Zhan, Shengqiang Xiao,* Xinhui Lu,* and **Wei You**.* *ACS Appl. Energy Mater.* **2018**, *1*, 4332–4340. (DOI: 10.1021/acsaem.8b00948)
- (107) “Effect of Core Size on Performance of Fused-Ring Electron Acceptors.” Shuixing Dai, Yiqun Xiao, Peiyao Xue, Jeromy James Rech, Kuan Liu, Zeyuan Li, Xinhui Lu, Wei You, and Xiaowei Zhan.* *Chem. Mater.*, **2018**, *30*, 5390–5396. (DOI: 10.1021/acs.chemmater.8b02222)
- (106) “Understanding the side-chain effects on A–D–A acceptors: in-plane and out-of-plane.” Qishi Liu, Zuo Xiao, Ting Li, Shangfeng Yang,* Wei You,* Mingkui Wang* and Liming Ding.* *Mater. Chem. Front.*, **2018**, *2*, 1563. (DOI: 10.1039/c8qm00238j)
- (105) “Imaging Carrier Diffusion in Perovskites with a Diffractive Optic-Based Transient Absorption Microscope.” Zhenkun Guo, Ninghao Zhou, Olivia F. Williams, Jun Hu, **Wei You**, and Andrew M. Moran.* *J. Phys. Chem. C*, **2018**, *122*, 10650–10656. (DOI: 10.1021/acs.jpcc.8b03643)
- (104) “Unique Energy Alignments of a Ternary Material System toward High-Performance Organic Photovoltaics.” Pei Cheng, Jiayu Wang, Qianqian Zhang, Wenchao Huang, Jingshuai Zhu, Rui Wang, Sheng-Yung Chang, Pengyu Sun, Lei Meng, Hongxiang Zhao, Hao-Wen Cheng, Tianyi Huang, Yuqiang Liu, Chaochen Wang, Chenhui Zhu, **Wei You**, Xiaowei Zhan, and Yang Yang.* *Adv. Mater.* **2018**, *30*, 1801501. (DOI: 10.1002/adma.201801501)
- (103) “Measuring Temperature-Dependent Miscibility for Polymer Solar Cell Blends: An Easily Accessible Optical Method Reveals Complex Behavior.” Zhengxing Peng, Xuechen Jiao, Long Ye, Sunsun Li, Jeromy James Rech, **Wei You**, Jianhui Hou, and Harald Ade.* *Chem. Mater.*, **2018**, *30*, 3943–3951. (DOI: 10.1021/acs.chemmater.8b00889)
- (102) “Post-polymerization modification of phosphorus containing conjugated copolymers.” Hongda Cao, Nicole Bauer, Sheng Bi, Dawen Li, **Wei You**, and Paul A. Rugar.* *European Polymer Journal* **2018**, *104*, 157-163. (DOI: 10.1016/j.eurpolymj.2018.05.009)
- (101) “Morphology, Structure, and Enhanced Intramolecular Conduction in Ultralong Conjugated Polymer Brushes.” Ian A. VonWald, Mark M. Moog, Travis W. LaJoie, Joshua D. Yablonski, Dean M. DeLongchamp, Jason Locklin, Frank Tsui,* and **Wei You**.* *J. Phys. Chem. C* **2018**, *122*, 7586–7596. (DOI: 10.1021/acs.jpcc.8b00033)
- (100) “Dramatic Improvement of the Mechanical Strength of Silane Modified Hydroxyapatite–Gelatin Composites via Processing with Cosolvent.” Huamin Hu, Bo-Wen Huang, Yan-Ting Lee, Jun Hu, Sing-Wai Wong, Ching-Chang Ko,* and **Wei You**.* *ACS Omega*, **2018**, *3*, 3592–3598. (DOI: 10.1021/acsomega.7b01924)
- (99) “Energy transfer mechanisms in layered 2D perovskites.” Olivia F. Williams, Zhenkun Guo, Jun Hu, Liang Yan, **Wei You**, and Andrew M. Moran.* *J. Chem. Phys.* **2018**, *148*, 134706. (DOI: 10.1063/1.5009663)
- (98) “A carbon–oxygen-bridged hexacyclic ladder-type building block for low-bandgap

- nonfullerene acceptors.” Ting Li, Honghong Zhang, Zuo Xiao, Jeromy J. Rech, Helin Niu, **Wei You**,* and Liming Ding.* *Mater. Chem. Front.* **2018**, 2, 700. (DOI: 10.1039/c8qm00004b)
- (97) “Balanced Partnership between Donor and Acceptor Components in Nonfullerene Organic Solar Cells with >12% Efficiency.” Yuze Lin, Fuwen Zhao, Shyamal K. K. Prasad, Jing-De Chen, Wanzhu Cai, Qianqian Zhang, Kai Chen, Yang Wu, Wei Ma, Feng Gao, Jian-Xin Tang, Chunru Wang, **Wei You**, Justin M. Hodgkiss,* and Xiaowei Zhan.* *Adv. Mater.* **2018**, 30, 1706363. (DOI: 10.1002/adma.201706363)
- (96) “Polymer Solar Cells with 90% External Quantum Efficiency Featuring an Ideal Light- and Charge-Manipulation Layer.” Jing-De Chen, Yan-Qing Li, Jingshuai Zhu, Qianqian Zhang, Rui-Peng Xu, Chi Li, Yue-Xing Zhang, Jing-Sheng Huang, Xiaowei Zhan, **Wei You**, and Jian-Xin Tang.* *Adv. Mater.* **2018**, 30, 1706083. (DOI: 10.1002/adma.201706083)
- (95) “Optical studies of native defects in π -conjugated donor–acceptor copolymers.” Sangita Baniya, Dipak Khanal, Evan Lafalce, **Wei You**, and Z. Vally Vardeny. *Journal of Applied Physics* **2018**, 123, 161571. (DOI:10.1063/1.5012995)
- (94) “Enhancing the performance of the electron acceptor ITIC-Th via tailoring its end groups.” Zeyuan Li, Shuixing Dai, Jingming Xin, Lin Zhang, Yang Wu, Jeromy Rech, Fuwen Zhao, Tengfei Li, Kuan Liu, Qiao Liu, Wei Ma, **Wei You**, Chunru Wang and Xiaowei Zhan.* *Mater. Chem. Front.* **2018**, 2, 537. (DOI: 10.1039/c7qm00547d)
- (93) “Effect of Replacing Alkyl Side Chains with Triethylene Glycols on Photovoltaic Properties of Easily Accessible Fluorene-Based Non-Fullerene Molecular Acceptors: Improve or Deteriorate?” Shoujie Zhang, Jianhong Gao, Wei Wang, Chun Zhan, Shengqiang Xiao,* Zhiqiang Shi, and **Wei You**.* *ACS Appl. Energy Mater.* **2018**, 1, 1276–1285. (DOI: 10.1021/acsaem.8b00012)
- (92) “Surpassing 10% Efficiency Benchmark for Nonfullerene Organic Solar Cells by Scalable Coating in Air from Single Nonhalogenated Solvent.” Long Ye, Yuan Xiong, Qianqian Zhang, Sunsun Li, Cheng Wang, Zhang Jiang, Jianhui Hou, **Wei You**, and Harald Ade.* *Adv. Mater.* **2018**, 30, 1705485. (DOI: 10.1002/adma.201705485)
- (91) “Enhancing the performance of a fused-ring electron acceptor via extending benzene to naphthalene.” Jingshuai Zhu, Yang Wu, Jeromy Rech, Jiayu Wang, Kuan Liu, Tengfei Li, Yuze Lin,* Wei Ma, **Wei You** and Xiaowei Zhan.* *J. Mater. Chem. C*, **2018**, 6, 66. (DOI: 10.1039/c7tc04520d)
- (90) “Distinction between PTB7-Th samples prepared from Pd(PPh₃)₄ and Pd₂(dba)₃/P(o-tol)₃ catalysed stille coupling polymerization and the resultant photovoltaic performance.” Jianhong Gao, Wei Wang, Shoujie Zhang, Shengqiang Xiao,* Chun Zhan, Mingyan Yang, Xinhui Lu* and **Wei You**.* *J. Mater. Chem. A*, **2018**, 6, 179. (DOI: 10.1039/c7ta09464g)
- (89) “Naphthodithiophene-Based Nonfullerene Acceptor for High-Performance Organic Photovoltaics: Effect of Extended Conjugation.” Jingshuai Zhu, Zhifan Ke, Qianqian Zhang, Jiayu Wang, Shuixing Dai, Yang Wu, Ye Xu, Yuze Lin,* Wei Ma, **Wei You**, and Xiaowei Zhan.* *Adv. Mater.* **2018**, 30, 1704713. (DOI: 10.1002/adma.201704713)

- (88) “Donor polymer fluorination doubles the efficiency in non-fullerene organic photovoltaics.” Nicole Bauer, Qianqian Zhang, Jingshuai Zhu, Zhengxing Peng, Liang Yan, Chenhui Zhu, Harald Ade, Xiaowei Zhan and **Wei You**.* *J. Mater. Chem. A*, **2017**, *5*, 22536. (DOI: 10.1039/c7ta07882j)
- (87) “Enhancing Efficiency and Stability of Organic Solar Cells by UV Absorbent.” Meng Qin, Pei Cheng, Jiangquan Mai, Tsz-Ki Lau, Qianqian Zhang, Jiayu Wang, Cenqi Yan, Kuan Liu, Chun-Jen Su, **Wei You**, Xinhui Lu, and Xiaowei Zhan. *Sol. RRL* **2017**, *1*, 1700148. (DOI: 10.1002/solr.201700148)
- (86) “A Ladder-type Heteroheptacene 12*H*-Dithieno[2',3':4,5]thieno[3,2-*b*:2',3'-*h*]fluorene Based D-A Copolymer with Strong Intermolecular Interactions toward Efficient Polymer Solar Cells.” Mingyan Yang, Tsz-Ki Lau, Shengqiang Xiao*, Jianhong Gao, Wei Wang, Xinhui Lu*, Shoujie Zhang, Jiansheng Wu, Chun Zhan, and **Wei You**.* *ACS Appl. Mater. Interfaces*, **2017**, *9*, 35159–35168. (DOI: 10.1021/acsami.7b12142)
- (85) “Fluorination of Donor–Acceptor Copolymer Active Layers Enhances Charge Mobilities in Thin-Film Transistors.” Brandon H. Smith, Qianqian Zhang, Mary Allison Kelly, Joshua H. Litofsky, Dinesh Kumar, Alexander Hexemer, **Wei You**, and Enrique D. Gomez* *ACS Macro Lett.*, **2017**, *6*, 1162–1167. (DOI: 10.1021/acsmacrolett.7b00716)
- (84) “The Curious Case of Fluorination of Conjugated Polymers for Solar Cells.” Qianqian Zhang, Mary Allison Kelly, Nicole Bauer and **Wei You**.* *Acc. Chem. Res.* **2017**, *50*, 2401-2409. (DOI: 10.1021/acs.accounts.7b00326)
- (83) “Enhancing Performance of Nonfullerene Acceptors via Side-Chain Conjugation Strategy.” Jiayu Wang, Wei Wang, Xiaohui Wang, Yang Wu, Qianqian Zhang, Cenqi Yan, Wei Ma, Wei You, and Xiaowei Zhan.* *Adv. Mater.* **2017**, *29*, 1702125. (DOI: 10.1002/adma.201702125)
- (82) “Fluorinated Thiophene Units Improve Photovoltaic Device Performance of Donor–Acceptor Copolymers.” Qianqian Zhang, Liang Yan, Xuechen Jiao, Zhengxing Peng, Shubin Liu, Jeromy James Rech, Erik Klump, Harald Ade, Franky So, and **Wei You**.* *Chem. Mater.* **2017**, *29*, 5990-6002. (DOI: 10.1021/acs.chemmater.7b01683)
- (81) “Charge Generation and Mobility-Limited Performance of Bulk Heterojunction Solar Cells with a Higher Adduct Fullerene.” Steffen Roland, Liang Yan, Qianqian Zhang, Xuechen Jiao, Adrian Hunt, Masoud Ghasemi, Harald Ade, Wei You, and Dieter Neher.* *J. Phys. Chem. C* **2017**, *121*, 10305-10316. (DOI: 10.1021/acs.jpcc.7b02288)
- (80) “Single-Junction Binary-Blend Nonfullerene Polymer Solar Cells with 12.1% Efficiency.” Fuwen Zhao, Shuixing Dai, Yang Wu, Qianqian Zhang, Jiayu Wang, Li Jiang, Qidan Ling, Zhixiang Wei, Wei Ma, Wei You, Chunru Wang,* and Xiaowei Zhan* *Adv. Mater.* **2017**, 1700144. (DOI: 10.1002/adma.201700144)
- (79) “Comparing non-fullerene acceptors with fullerene in polymer solar cells: a case study with FTAZ and PyCNTAZ.” Nicole Bauer, Qianqian Zhang, Jingbo Zhao, Long Ye, Joo-Hyun Kim, Iordania Constantinou, Liang Yan, Franky So, Harald Ade, He Yan and **Wei You**.* *J. Mater. Chem. A*, **2017**, *5*, 4886. (DOI: 10.1039/C6TA10450A)

- (78) "Incorporating Fluorine Substitution into Conjugated Polymers for Solar Cells: Three Different Means, Same Results." Mary Allison Kelly, Steffen Roland, Qianqian Zhang, Youngmin Lee, Bernd Kabius, Qing Wang, Enrique D. Gomez, Dieter Neher*, and **Wei You**.* *J. Phys. Chem. C*, **2017**, *121*, 2059–2068. (DOI: 10.1021/acs.jpcc.6b10993)
- (77) "Fused Nonacyclic Electron Acceptors for Efficient Polymer Solar Cells." Shuixing Dai, Fuwen Zhao, Qianqian Zhang, Tsz-Ki Lau, Tengfei Li, Kuan Liu, Qidan Ling, Chunru Wang, Xinhui Lu, Wei You, and Xiaowei Zhan.* *J. Am. Chem. Soc.*, **2017**, *139*, 1336–1343. (DOI: 10.1021/jacs.6b12755)
- (76) "Sequence Effects in Donor–Acceptor Oligomeric Semiconductors Comprising Benzothiadiazole and Phenylenevinylene Monomers." Shaopeng Zhang, Nicole E. Bauer, Ilana Y. Kanal, Wei You, Geoffrey R. Hutchison,* and Tara Y. Meyer.* *Macromolecules*, **2017**, *50*, 151–161. (DOI: 10.1021/acs.macromol.6b02215)
- (75) "Molecular Engineering of Conjugated Polymers for Solar Cells: An Updated Report." Shengqiang Xiao,* Qianqian Zhang, and **Wei You**.* *Adv. Mater.* **2017**, *29*, 1601391. (DOI: 10.1002/adma.201601391)
- (74) "Panchromatic Sequentially Cast Ternary Polymer Solar Cells." Masoud Ghasemi, Long Ye, Qianqian Zhang, Liang Yan, Joo-Hyun Kim, Omar Awartani, Wei You, Abay Gadisa, and Harald Ade* *Adv. Mater.* **2017**, *29*, 1604603. (DOI: 10.1002/adma.201604603)
- (73) "Investigation of Dopamine Analogues: Synthesis, Mechanistic Understanding, and Structure–Property Relationship." Huamin Hu, Jason Christopher Dyke, Brett Allen Bowman, Ching-Chang Ko, and **Wei You**.* *Langmuir* **2016**, *32*, 9873–9882. (DOI: 10.1021/acs.langmuir.6b02141)
- (72) "Communication: Uncovering correlated vibrational cooling and electron transfer dynamics with multidimensional spectroscopy." Zhenkun Guo, Paul G. Giokas, Thomas P. Cheshire, Olivia F. Williams, David J. Dirkes, Wei You, and Andrew M. Moran.* *The J. Chem. Phys.* **2016**, *145*, 101101. (DOI: 10.1063/1.4962670)
- (71) "Ultrafast Spectroscopic Signatures of Coherent Electron-Transfer Mechanisms in a Transition Metal Complex." Zhenkun Guo, Paul G. Giokas, Thomas P. Cheshire, Olivia F. Williams, David J. Dirkes, Wei You, and Andrew M. Moran.* *J. Phys. Chem. A* **2016**, *120*, 5773–5790. (DOI: 10.1021/acs.jpca.6b04313)
- (70) "Enhancement of Photovoltaic Performance by Utilizing Readily Accessible Hole Transporting Layer of Vanadium(V) Oxide Hydrate in a Polymer–Fullerene Blend Solar Cell." Youyu Jiang, Shengqiang Xiao,* Biao Xu, Chun Zhan, Liqiang Mai,* Xinhui Lu,* and **Wei You**.* *ACS Appl. Mater. Interfaces* **2016**, *8*, 11658–11666. (DOI: 10.1021/acsami.6b02824)
- (69) "Comparative Photovoltaic Study of Physical Blending of Two Donor–Acceptor Polymers with the Chemical Blending of the Respective Moieties." Qianqian Zhang, Mary Allison Kelly, Adrian Hunt, Harald Ade, and **Wei You**.* *Macromolecules*. **2016**, *49*, 2533–2540. (DOI: 10.1021/acs.macromol.5b02586)
- (68) "Site-Selective Passivation of Defects in NiO Solar Photocathodes by Targeted Atomic Deposition." Cory J. Flynn, Shannon M. McCullough, EunBi Oh, Lesheng Li, Candy C.

- Mercado, Byron H. Farnum, Wentao Li, Carrie L. Donley, Wei You, Arthur J. Nozik, James R. McBride, Thomas J. Meyer, Yosuke Kanai, and James F. Cahoon.* *ACS Appl. Mater. Interfaces* **2016**, 8, 4754–4761. (DOI: 10.1021/acsami.6b01090)
- (67) “Valence Band Dependent Charge Transport in Bulk Molecular Electronic Devices Incorporating Highly Conjugated Multi-[(Porphinato)Metal] Oligomers.” Robert C. Bruce, Ruobing Wang, Jeff Rawson, Michael J. Therien,* and **Wei You**.* *J. Am. Chem. Soc.* **2016**, 138, 2078–2081. (DOI: 10.1021/jacs.5b10772)
- (66) “Charge Photogeneration in Organic Photovoltaics: Role of Hot versus Cold Charge-Transfer Excitons.” Bhoj R. Gautam, Robert Younts, Wentao Li, Liang Yan, Evgeny Danilov, Erik Klump, Iordania Constantinou, Franky So, Wei You, Harald Ade , and Kenan Gundogdu* *Adv. Energy Mater.* **2015**, 1501032. (DOI: 10.1002/aenm.201501032)
- (65) “A General Approach toward Electron Deficient Triazole Units to Construct Conjugated Polymers for Solar Cells.” Wentao Li, Liang Yan, Huaxing Zhou, and **Wei You**.* *Chem. Mater.*, **2015**, 27 (18), 6470–6476. (DOI: 10.1021/acs.chemmater.5b03098)
- (64) “Direct Optical Observation of Stimulated Emission from Hot Charge Transfer Excitons in Bulk Heterojunction Polymer Solar Cells.” Bhoj R. Gautam, Andy Barrette, Cong Mai, Liang Yan, Qianqian Zhang, Evgeny Danilov, Wei You, Harald Ade, and Kenan Gundogdu.* *J. Phys. Chem. C*, **2015**, 119 (34), 19697–19702. (DOI: 10.1021/acs.jpcc.5b06557)
- (63) “Status and prospects for ternary organic photovoltaics.” Luyao Lu, Mary Allison Kelly, **Wei You**,* and Luping Yu.* *Nature Photon.* **2015**, 9, 491-500. (DOI: 10.1038/nphoton.2015.128)
- (62) “Visible Light Photoinitiated Metal-Free Living Cationic Polymerization of 4-Methoxystyrene.” Andrew J. Perkowski, **Wei You**,* and David A. Nicewicz.* *J. Am. Chem. Soc.* **2015**, 137, 7580–7583. (DOI: 10.1021/jacs.5b03733)
- (61) “Anion–Dipole Interactions Make the Homopolymers Self-Assemble into Multiple Nanostructures” Long-Hai Wang, Zi-Dan Zhang, Chun-Yan Hong, Xue-Hao He, **Wei You**, and Ye-Zi You.* *Adv. Mater.* **2015**, 27, 3202-3207. (DOI: 10.1002/adma.201405579)
- (60) “Orientation effect on GaAs/ultrathin polymer/PEDOT:PSS hybrid solar cell.” Liang Yan, and **Wei You**.* *Organic Electronics* **2015**, 16, 71-76. (DOI: 10.1016/j.orgel.2014.10.037)
- (59) “Tailoring Porphyrin-Based Electron Accepting Materials for Organic Photovoltaics.” Jeff Rawson, Andrew C. Stuart, **Wei You**,* and Michael J. Therien.* *J. Am. Chem. Soc.* **2014**, 136, 17561–17569. (DOI: 10.1021/ja5097418)
- (58) “Mobility-Controlled Performance of Thick Solar Cells Based on Fluorinated Copolymers.” Wentao Li, Steve Albrecht, Liqiang Yang, Steffen Roland, John R. Tumbleston, Terry McAfee, Liang Yan, Mary Allison Kelly, Harald Ade,* Dieter Neher,* and **Wei You**.* *J. Am. Chem. Soc.*, **2014**, 136, 15566–15576. (DOI: 10.1021/ja5067724)
- Also featured in JACS Spotlights (*J. Am. Chem. Soc.* **2014**, 136, 15439)
- (57) “Characterization of the Polymer Energy Landscape in Polymer:Fullerene Bulk

- Heterojunctions with Pure and Mixed Phases.” Sean Sweetnam, Kenneth R. Graham, Guy O. Ngongang Ndjawa, Thomas Heumüller, Jonathan A. Bartelt, Timothy M. Burke, Wentao Li, **Wei You**, Aram Amassian, and Michael D. McGehee.* *J. Am. Chem. Soc.* **2014**, *136*, 14078–14088. (DOI: 10.1021/ja505463r)
- (56) “The role of temperature in forming sol–gel biocomposites containing polydopamine.” Jason Christopher Dyke, Huamin Hu, Dong Joon Lee, Ching-Chang Ko,* and **Wei You**.* *J. Mater. Chem. B*, **2014**, *2*, 7704–7711. (DOI: 10.1039/C4TB00884G)
- (55) “Morphological Effects on the Small-Molecule-Based Solution-Processed Organic Solar Cells.” Dong-Chan Lee,* Lacie V. Brownell, Liang Yan, and **Wei You**. *ACS Appl. Mater. Interfaces* **2014**, *6*, 15767–15773. (DOI: 10.1021/am5027538)
- (54) “Shifting Electronic Structure by Inherent Tension in Molecular Bottlebrushes with Polythiophene Backbones.” Yuanchao Li, Alper Nese, Xiangqian Hu, Natalia V. Lebedeva, Travis W. LaJoie, Joanna Burdyńska, Mihaela C. Stefan, **Wei You**, Weitao Yang, Krzysztof Matyjaszewski, and Sergei S. Sheiko.* *ACS Macro Lett.* **2014**, *3*, 738–742. (DOI: 10.1021/mz5003323)
- (53) “Morphology linked to miscibility in highly amorphous semi-conducting polymer/fullerene blends.” John R. Tumbleston, Liqiang Yang, **Wei You**, and Harald Ade.* *Polymer*, **2014**, *55*, 4884–4889. (DOI: 10.1016/j.polymer.2014.07.051)
- (52) “Solution-processed copper–nickel nanowire anodes for organic solar cells.” Ian E. Stewart, Aaron R. Rathmell, Liang Yan, Shengrong Ye, Patrick F. Flowers, **Wei You**, and Benjamin J. Wiley.* *Nanoscale*, **2014**, *6*, 5980–5988. (DOI: 10.1039/C4NR01024H)
- (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, Wei Ma, **Wei You**,* and Harald Ade.* *Nature Photon.* **2014**, *8*, 385–391. (DOI: 10.1038/nphoton.2014.55)
- Cover of Issue 5, Volume 8 of *Nature Photonics*
- (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**, *26*, 4456–4462. (DOI: 10.1002/adma.201305251)
- (49) “Tuning Fluorinated Benzotriazole Polymers through Alkylthio Substitution and Selenophene Incorporation for Bulk Heterojunction Solar Cells.” Rycel L. Uy, Liang Yan, Wentao Li, and **Wei You**.* *Macromolecules* **2014**, *47*, 2289–2295. (DOI: 10.1021/ma5001095)
- (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. Interfaces* **2014**, *6*, 803–810. (DOI: 10.1021/am402684w)
- (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. (DOI: 10.1039/C3CC44904A)
- (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. (DOI: 10.1021/nn403079z)
- (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. (DOI: 10.1063/1.4826480)
- (44) “Real Function of Semiconducting Polymer in GaAs/Polymer Planar Heterojunction Solar Cells.” Liang Yan, and **Wei You**.* *ACS Nano* **2013**, 7, 6619-6626. (DOI: 10.1021/nn306047q)
- (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 Shengqiang Xiao*. *J. Mater. Chem. A*, **2013**, 1, 8270-8279. (DOI: 10.1039/C3TA11001J)
- (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. (DOI: 10.1021/jz400723u)
- (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 (DOI: 10.1002/adfm.201300093)
- (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. (DOI: 10.1021/ja309289u)
- Selected into ACS Select Virtual Issue #33 (*J. Am. Chem. Soc.* **2015**, 137, 9503–9505).
- (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. (DOI: 10.1039/C2EE23235A)
- (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. (DOI: 10.1039/C2JM32466K)
- (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. LaJorie, Wentao Li, N. Eric Huddleston, Jason Locklin*, and **Wei You**.* *ACS Appl. Mater. Interfaces*, **2012**, 4, 5069–5073. (DOI: 10.1021/am301401n)

- (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. (DOI: 10.1021/ja302602b)
- (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. (DOI: 10.1002/marc.201200129)
- 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*, 5432-5435. (DOI: 10.1021/ja211597w)
- (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. (DOI: 10.1039/C2EE21254D)
- (32) "Rational Design of High Performance Conjugated Polymers for Organic Solar Cells." Huaxing Zhou, Liqiang Yang, and **Wei You**.* *Macromolecules* **2012**, *45*, 607-632. (DOI: 10.1021/ma201648t)
- 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*, 1962-1968. (DOI: 10.1039/C1JM14612B)
- (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*, 9146-9154. (DOI: 10.1021/ma201835h)
- 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*, 4075-4084. (DOI: 10.1021/am2009585)
- (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*, 4625-4631. (DOI: 10.1021/ja1112595)
- 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*, 872-877. (DOI:

10.1021/ma1024126)

- (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*, 2995-2998. (DOI: 10.1002/anie.201005451)
- 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*, 2371-2380. (DOI: 10.1021/jp108534d)
- (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*, 10390-10396. (DOI: 10.1021/ma101646r)
- (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*, 16793-16800. (DOI: 10.1021/jp106640r)
- (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*, 7992-7995. (DOI: 10.1002/anie.201003357)
- (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*, 1377-1383. (DOI: 10.1021/am1000344)
- (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*, 4609-4612. (DOI: 10.1021/ma100051v)
- (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*, 635-643. (DOI: 10.1002/adfm.200901407)
- (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*, 811-820. (DOI: 10.1021/ma902241b)
- (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*, 797-804. (DOI: 10.1021/ma902164q)
- (16) "Recent Progress on Organic Solar Cells Research", Jianfeng Zhang, Huaxing Zhou, and **Wei You***. *Journal of Hefei University (Natural Sciences)*, **2009**, *19*, 1-6. (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*, 13202-13203. (DOI: 10.1021/ja9047152)
- (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*, 1613-1621. (DOI: 10.1021/am900327n)
- (13) "Conjugated Polymers of Fused Bithiophenes with Enhanced π -Electron Delocalization for Photovoltaic Applications." Shengqiang Xiao, Huaxing Zhou, and **Wei You***. *Macromolecules*, **2008**, *41*, 5688-5696. (DOI: 10.1021/ma800776q)
- (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*, 9763-9772. (DOI: 10.1021/ja800278a)

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. (DOI: 10.1002/smll.200800640)
- (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. (DOI: 10.1002/adfm.200700484)
- (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. (DOI: 10.1021/ja051332c)
- (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. (DOI: 10.1063/1.1900926)
- (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. (DOI: 10.1063/1.1829796)
- (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. (DOI: 10.1002/anie.200460110)
- (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. (DOI: 10.1002/adma.200306133)

- (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. (DOI: 10.1002/chem.200305554)
- (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. (DOI: 10.1021/ma034587o)
- (2) "Fine-Tuning Photorefractive Properties of Monolithic Molecular Materials." Zhanjia Hou, **Wei You** and Luping Yu. *Appl. Phys. Lett.* **2003**, *82*, 3385. (DOI: 10.1063/1.1575938)
- (1) "Synthesis and Structure/Property Correlation of Fully Functionalized Photorefractive Polymers." **Wei You**, Liming Wang, Qing Wang and Luping Yu. *Macromolecules* **2002**, *35*, 4636. (DOI: 10.1021/ma020078v)

6. SEMINARS and PRESENTATIONS

a. Keynote or Named Lectures

- (1) Chinese University of Hong Kong, Physics Colloquium Speaker November 2, 2018

b. Invited Presentations

- | | | |
|------|--|--------------------|
| (60) | The 16th Pacific Polymer Conference (PPC-16), Singapore | December 10, 2019 |
| (59) | DGIST Global Innovation Festival (DGIF), Daegu, Korea | November 11, 2019 |
| (58) | American Chemical Society Fall 2019 National Meeting
San Diego, CA | August 25, 2019 |
| (57) | GPVC 2019, Gwangju, Korea | March 14, 2019 |
| (56) | SPIE Organic, Hybrid, and Perovskite Photovoltaics XIX, San Diego, CA | August 23, 2018 |
| (55) | The 2nd WUT International Symposium on Advanced Optoelectronic Materials and Devices, Wuhan, China | June 24, 2018 |
| (54) | Polymers Appreciation Day, University of Akron, Akron, OH | May 10th, 2018 |
| (53) | The 15th Pacific Polymer Conference (PPC-15), Xiamen, China | December 12, 2017 |
| (52) | American Chemical Society Fall 2017 National Meeting
Washington, D.C. | August 20-24, 2017 |
| (51) | 13th International Symposium on Functional Pi-Electron Systems
Hong Kong, China | June 8, 2017 |
| (50) | ONR Organic Photovoltaics Program Review
Baltimore, MD | May 17, 2017 |
| (49) | Materials Research Society Spring Meeting, Phoenix, AZ | April 20, 2017 |
| (48) | American Chemical Society Spring 2017 National Meeting
San Francisco, CA | April 2-5, 2017 |
| (47) | SERMACS (Southeastern Regional Meeting of the American Chemical Society)
Columbia, SC | October 25, 2016 |
| (46) | NSFC-RSC International Symposium: Novel Polymer Synthesis to Solve Tomorrow's Problems – Healthcare, Materials and Energy
Hangzhou, China | September 27, 2016 |
| (45) | American Chemical Society Fall 2016 National Meeting
Philadelphia, PA | August 23, 2016 |
| (44) | Warwick Polymer Conference 2016
Warwick, UK | July 12, 2016 |
| (43) | International Conference of Synthetic Metals (ICSM) 2016 | June 30, 2016 |

	Guangzhou, China	
(42)	ONR Organic Photovoltaics Program Review Arlington, VA	May 18, 2016
(41)	American Chemical Society Spring 2016 National Meeting San Diego, CA	March 15-16, 2016
(40)	Pacificchem 2015 Congress, Hawaii	December 15, 2015
(39)	9th National and Global Chinese Conference on Organic Molecules & Polymer Light-Emitting Materials and Their Optoelectronic Properties together with the 1st Conference on Organic Electronics Nanjing, China	Oct 12, 2015
(38)	13th International Conference of Polymers for Advanced Technologies (PAT2015) Hangzhou, China	June 28, 2015
(37)	Joint AFOSR and ONR Organic Photovoltaics Program Review Santa Barbara, CA	June 9, 2015
(36)	Workshop in NanoScience and NanoEngineering at Duke	April 17, 2015
(35)	American Chemical Society Spring 2015 National Meeting Denver, CO	March 23, 2015
(34)	KAUST Solar Future 2014 Meeting, KAUST, Saudi Arabia	November 10, 2014
(33)	29th Congress of Chinese Chemical Society, Beijing, China	August 5, 2014
(32)	Joint AFOSR and ONR Organic Photovoltaics Program Review Arlington, VA	June 5, 2014
(31)	European MRS Spring Meeting, Lille, France	May 27, 2014
(30)	Polymer Club Chemistry Insight Day, University of Warwick, UK	May 22, 2014
(29)	Materials Research Society Spring Meeting, San Francisco, CA	April 23, 2014
(28)	3rd Symposium on Organic Photovoltaics at Kent State University Kent, OH	April 16, 2014
(27)	American Chemical Society Spring 2014 National Meeting Dallas, TX	March 18, 2014
(26)	American Chemical Society Spring 2014 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 New Orleans, LA	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) | 4 th Japan-US Young Researcher Exchange Symposium
UNC Charlotte, Charlotte, NC | March 7, 2007 |

c. Departmental Seminar

- | | | |
|------|---|--------------------|
| (69) | Department of Chemistry, University of Miami, Miami, FL | November 19, 2019 |
| (68) | KIST, Seoul, Korea | November 14, 2019 |
| (67) | Korea University, Seoul, Korea | November 13, 2019 |
| (66) | Key Laboratory of High Performance Plastics, Jilin University
Changchun, China | June 24, 2019 |
| (65) | School of Materials Science and Engineering, GIST, Korea | March 15, 2019 |
| (64) | Department of Energy System Engineering, DGIST, Korea | March 13, 2019 |
| (63) | Department of Chemical Engineering, POSTECH, Korea | March 12, 2019 |
| (62) | Department of Chemistry, Korea University, Korea | March 11, 2019 |
| (61) | Electronic and Information Engineering, The Hong Kong Polytechnic University | November 01, 2018 |
| (60) | Department of Chemistry, University of North Texas | September 07, 2018 |
| (59) | Department of MSE, Southern University of Science and Technology of China | July 02, 2018 |
| (58) | Dept. of Chem. and Phys., Fayetteville State University | February 28, 2018 |
| (57) | Dept. of Polymer Sci. and Eng., USTC | December 6, 2017 |
| (56) | School of Materials, Hefei University of Technology | December 5, 2017 |
| (55) | Department of Chemistry, University of Saskatchewan | November 20, 2017 |
| (54) | Department of Polymer Science, University of Akron | September 08, 2017 |
| (53) | School of Chemistry and Materials, Soochow University, China | July 17, 2017 |
| (52) | Department of Chemistry, Highpoint University | June 23, 2017 |
| (51) | Department of Chemistry, UC Davis | May 30, 2017 |
| (50) | Department of Chemistry, Clemson University | March 9, 2017 |
| (49) | Department of Chemistry, Zhejiang University, China | September 30, 2016 |
| (48) | Department of Chemistry, Wuhan University, China | June 14, 2016 |
| (47) | ORaCEL, NC State | March 21, 2016 |

- (46) Nebraska Center for Materials and Nanoscience, University of Nebraska
March 9, 2016
- (45) Department of Chemistry, Carnegie Mellon University
September 24, 2015
- (44) Department of Chemistry, NC Central University
September 14, 2015
- (43) Department of Polymer Science & Engineering, USTC, China
July 20, 2015
- (42) State Key Lab of Luminescent Materials and Devices, South China Univ. of Tech.
Guangzhou, China
July 13, 2015
- (41) School of Chemistry, Beijing Institute of Technology, China
July 10, 2015
- (40) Institute of Chemistry, Chinese Academy of Sciences, China
July 9, 2015
- (39) Department of Chemistry, Imperial College London, UK
May 14, 2015
- (38) Center for Materials for Information Technology (MINT)
University of Alabama
May 1, 2015
- (37) Department of Chemistry, Purdue University
March 10, 2015
- (36) Department of Materials Science and Engineering
University of Florida
August 26, 2014
- (35) Department of Chemistry, Nankai University, China
August 1, 2014
- (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
University of Florida
Feb 6, 2013
- (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
Zhejiang University, China
June 12, 2012
- (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

- | | | |
|-----|--|-------------------|
| (4) | Department of Chemistry, Loyola University of Chicago | March 26, 2009 |
| (5) | 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 |

d. Other Presentations

- | | | |
|-----|--|-----------------|
| (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

- | | | |
|------|-------------|--|
| (28) | Fall 2019 | CHEM 101 "General Chemistry" (210 students) |
| (27) | Spring 2019 | CHEM 420 "Introduction to Polymers" (46 students) |
| (26) | Spring 2019 | MTSC 891 "Special Topics Electronic Materials and Devices-Organic and Inorganic" (3 students) |
| (25) | Spring 2018 | CHEM 420 "Introduction to Polymers" (57 students) |
| (24) | Spring 2018 | MTSC 891 "Special Topics Electronic Materials and Devices-Organic and Inorganic" (10 students) |
| (23) | Fall 2017 | CHEM 721 "Polymer/Materials Seminar" (10 students) |
| (22) | Spring 2017 | CHEM 521 "Polymer Lab" (8 students) |
| (21) | Spring 2017 | CHEM 261 "Introduction to Organic Chemistry (I)" (200 students) |
| (20) | Fall 2016 | CHEM 721 "Polymer/Materials Seminar" (12 students) |
| (19) | Spring 2016 | CHEM 521 "Polymer Lab" (6 students) |
| (18) | Fall 2015 | CHEM 421 "Polymer Synthesis" (24 students) |
| (17) | Spring 2015 | CHEM 521 "Polymer Lab" (7 students) |
| (16) | Fall 2014 | CHEM 421 "Polymer Synthesis" (23 students) |
| (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

- (30) Ian VonWald PhD (November 2019)
Title: INITIATION, STRUCTURE, MORPHOLOGY, AND CHARGE TRANSPORT IN CONJUGATED POLYMER BRUSHES
- (29) Nicole Bauer PhD (April 2019)
Title: INVESTIGATING NON-FULLERENE ACCEPTORS IN ORGANIC PHOTOVOLTAICS
- (28) Jun Hu PhD (October 2018)
Title: TWO-DIMENSIONAL ORGANIC-INORGANIC HYBRID PEROVSKITE SOLAR CELLS
- (27) David Dirkes PhD (June 2018)
Title: EVALUATING THE IMPACT OF CHEMICAL STRUCTURE ON THE INTERACTIONS AND OPTOELECTRONIC PERFORMANCE OF CONJUGATED SMALL MOLECULES
- (26) Huamin Hu PhD (April 2018)
Title: DESIGN OF BIOMIMETICALLY INSPIRED HYDROXYAPATITE-GELATIN BASED COMPOSITE FOR BONE SCAFFOLD APPLICATION
- (25) Elizabeth Keenan PhD (March 2018)
Title: INVESTIGATION INTO THE IMPROVEMENT OF MoS₂ FUNCTIONALIZATION, SMALL MOLECULE TRANSISTORS, AND 2D PEROVSKITES
- (24) Qianqian Zhang PhD (June 2017)
Title: DESIGN AND SYNTHESIS OF CONJUGATED POLYMERS FOR ORGANIC PHOTOVOLTAICS: TUNING THE CONJUGATED BACKBONE AND SUBSTITUENTS
- (23) Stephanie Liffland Undergraduate Honor Thesis (May 2017)
Title: METHANOL MEDIATED LIVING CATIONIC POLYMERIZATION VIA AN OXONIUM INTERMEDIATE
- (22) Mary Allison Kelly PhD (April 2017)
Title: FUNDAMENTAL STUDIES OF TERNARY BLENDS FOR BULK HETERO JUNCTION SOLAR CELLS
- (21) Sam Anderson PhD (August 2016)
Title: EXPLORING THE DESIGN AND SYNTHESIS OF CONJUGATED MATERIALS FOR APPLICATIONS IN ORGANIC ELECTRONICS
- (20) Josh Yablonski PhD (August 2015)
Title: DESIGN, FABRICATION, AND CHARACTERIZATION OF ORGANIC ELECTRONIC DEVICES FOR THERMOELECTRIC APPLICATIONS
- (19) Robert Bruce PhD (June 2015)
Title: CHARGE TRANSPORT IN ORGANIC AND ORGANOMETALLIC MOLECULES: DEVICE DESIGN, FABRICATION, AND TESTING
- (18) Wentao Li PhD (June 2015)
Title: FUNDAMENTAL UNDERSTANDING OF A HIGH PERFORMANCE POLYMER FOR ORGANIC PHOTOVOLTAICS AND NEW MATERIAL DEVELOPMENT BY RATIONAL MOLECULAR ENGINEERING
- (17) Travis LaJoie PhD (April 2015)
Title: CONJUGATED POLYMER BRUSHES AS MOLECULAR WIRES IN ELECTRONIC DEVICES: SYNTHESIS, DEVICE DESIGN, AND CHARACTERIZATION
- (16) Adam Alman MS (July 2014)
- (15) Jason Dyke PhD (June 2014)
Title: DESIGNING BIOMIMETICALLY INSPIRED MATERIALS FOR POTENTIAL ORTHOPEDIC TISSUE ENGINEERING APPLICATIONS
- (14) Maggie Radack Undergraduate Honor Thesis (May 2014)
Title: INCREASING LIGHT ABSORPTION OF POLYMER SOLAR CELL VIA SIDE-CHAIN CHROMOPHORE ENGINEERING

- (13) Rycel Uy PhD (June 2013)
Title: STRUCTURE-PROPERTY OPTIMIZATIONS OF SEMICONDUCTING POLYMERS FOR ORGANIC SOLAR CELLS
- (12) Erik Thiede Undergraduate Honor Thesis (May 2013)
Title: LITHIATED NON-STOICHIOMETRIC NiO AS A HOLE TRANSPORT LAYER
- (11) Matt Wilkins Undergraduate Thesis (September 2012)
Title: DESIGN, SYNTHESIS AND ANALYSIS OF NOVEL CONJUGATED POLYMERS FOR BULK HETEROJUNCTION SOLAR CELLS
- (10) Liqiang Yang PhD (July 2012)
Title: DESIGN STRATEGIES FOR POLYMER SOLAR CELLS OF HIGH EFFICIENCY AND LOW COST: MATERIALS, INTERFACE, AND DEVICE STRUCTURES
- (9) Andrew Stuart PhD (July 2012)
Title: OPTIMIZATION AND CHARACTERIZATION OF NEW MATERIALS TO ENHANCE PERFORMANCE OF POLYMER SOLAR CELLS
- (8) Rui Jin MS (May 2012)
- (7) James Blair MS (December 2011)
- (6) Huaxing Zhou PhD (November 2011)
Title: RATIONAL DESIGN OF HIGH PERFORMANCE CONJUGATED POLYMERS FOR ORGANIC SOLAR CELLS
- (5) Samuel C. Price PhD (May 2011)
Title: THE SYNTHESIS AND OPTIMIZATION OF CONJUGATED POLYMERS FOR PHOTOVOLTAIC APPLICATIONS
- (4) Jeremy R. Niskala PhD (December 2010)
Title: MOLECULAR SPINTRONICS: DESIGN, FABRICATION, AND CHARACTERIZATION
- (3) Kelly Jane Knight Undergraduate Thesis (September 2010)
Title: POLYMERIC BIOMATERIALS FOR USE IN DENTAL APPLICATIONS
- (2) Nabil Kleinhenz Undergraduate Honor Thesis (May 2010)
Title: SYNTHESIS AND ANALYSIS OF NEW MATERIALS FOR POLYMER SOLAR CELLS
- (1) Peng Dai MS (KTH, Sweden)

c. Research Group

Current Group

Research Associate (1)

- (1) Liang Yan 12/2016 – present PhD: University of Tennessee, Knoxville

Postdoctoral Scholars (4)

- (4) Dr. Zhichao Cao 09/2019 – present PhD: Peking University, China
- (3) Dr. Jun Hu 01/2019 – present PhD: UNC at Chapel Hill
- (2) Dr. Sungyun Son 11/2018 – present PhD: POSTECH, Korea
- (1) Dr. Joji Tanaka 10/2018 – present PhD: University of Warwick, UK

Graduate Students (4)

- (4) Jeromy Rech 4th Year BS: Lewis
- (3) Stephanie Samson 3rd Year BS: Caltech, MS: Stanford
- (2) Kyle Cushman 2nd Year BS: Hope College
- (1) Xiaowei Zhong 1st Year BS: Southern University of Sci. and Technology

Undergraduate Students (3)

- (3) Noel E. Archer 08/2019 – current Class of 2022

(2)	Parker T. Boeck	05/2019 – current	Class of 2020
(1)	Spencer Bradshaw	08/2018 – present	Class of 2020

Former Members

Postdoctoral Scholars (7)

(7)	Dr. David Dirkes	07/2018 – 06/2019	PhD: UNC Chapel Hill
(6)	Dr. Zheng Chen	09/2018 – 12/2019	PhD: Jilin University, China
(5)	Dr. Alka Prasher	02/2016 – 08/2017	PhD: University of New Hampshire
(4)	Dr. Zhou Chen	09/2014 – 08/2015	PhD: Shanghai Institute of Org. Chem., CAS
(3)	Dr. Liqiang Yang	08/2012 – 10/2013	PhD: UNC Chapel Hill
(2)	Dr. Shengqiang Xiao	11/2006 – 08/2008	PhD: Chinese Academy of Science
(1)	Dr. Paul Hoertz	02/2007 – 08/2008	PhD: Johns Hopkins University

Graduate Students (23)

(23)	Ian VonWald	PhD, 11/2019, UNC-CH	Current: EPA
(22)	Nicole Bauer	PhD, 05/2019, UNC-CH	Current: Aldon
(21)	Jun Hu	PhD, 10/2018, UNC-CH	Current: UNC-CH
(20)	David Dirkes	PhD, 06/2018, UNC-CH	Current: UNC-CH
(19)	Huamin Hu	PhD, 04/2018, UNC-CH	Current: Eastman
(18)	Elizabeth Keenan	PhD, 03/2018, UNC-CH	Current: Cree
(17)	Qianqian Zhang	PhD, 06/2017, UNC-CH	Current: Eastman
(16)	Mary Allison Kelly	PhD, 04/2017, UNC-CH	Current: College of the Holy Cross
(15)	Sam Anderson	PhD, 08/2016, UNC-CH	Current: looking for position
(14)	Josh Yablonski	PhD, 08/2015, UNC-CH	Current: EPIC Consulting
(13)	Robert Bruce	PhD, 06/2015, UNC-CH	Current: NIST
(12)	Wentao Li	PhD, 06/2015, UNC-CH	Current: Eastman
(11)	Travis LaJoie	PhD, 04/2015, UNC-CH	Current: Intel
(10)	Adam Alman	MS, 07/2014, UNC-CH	Current: NA
(9)	Jason Dyke	PhD, 06/2014, UNC-CH	Current: University School, Cleveland
(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: ExxonMobil
(2)	Sam Price	PhD, 05/2011, UNC-CH	Current: Intel
(1)	Jeremy Niskala	PhD, 12/2010, UNC-CH	Current: Intel

Undergraduate Students (29)

(29)	Anthony M. Bonilla	05/2019 – 07/2019	summer undergrad. student from University of Puerto Rico at Cayey
(28)	Spencer Bradshaw	08/2018 – current	Class of 2020
(27)	Yeojin Park	08/2018 – 12/2018	Class of 2019
(26)	Joe Kaplan	08/2016 – 05/2018	Class of 2018
(25)	Philip Todd	08/2017 – 05/2018	Class of 2018
(24)	Stephanie Liffland	01/2016 – 05/2017	Class of 2017
(23)	Dustin Sneed	01/2016 – 05/2017	Class of 2018
(22)	Brett Bowman	08/2014 – 06/2016	Class of 2016
(21)	Alexandria Pinnix	05/2015 – 07/2015	summer undergrad. student from Winthrop
(20)	Joseph Nenow	08/2013 – 05/2015	Class of 2015

(19)	Xue Sun	05/2014 – 07/2014	summer undergraduate student from NUS
(18)	Emily Lam	06/2014 – 08/2014	summer undergraduate student from UNC
(17)	Maggie Radack	01/2012 – 05/2014	Class of 2014
(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
(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
(4)	Sarah Stoneking	08/2008 – 05/2009	Class of 2010
(3)	Michael Feng	05/2008 – 08/2008	summer undergraduate student from Duke
(2)	Kevin Pfeuffer	01/2007 – 05/2007	Class of 2008
(1)	Rakjoon Jeon	01/2007 – 03/2007	Class of 2008

High School Students (5)

(5)	Emily Liu	Summer 2018 (10 weeks)	
(4)	Rose Huang	Summer 2015 (10 weeks)	summer program, NCSSM
(3)	Adithya Iyengar	Summer 2014 (10 weeks)	summer program, NCSSM
(2)	Dalana Mack	Summer 2008 (10 weeks)	Project SEED
(1)	Darren Zhu	Summer 2008 (3 weeks)	RECAP

Visiting Professors (6)

(6)	Dr. Youngu Lee	03/2018 – 02/2019	visiting professor from DGIST, Korea
(5)	Dr. Zheng Chen	09/2017 – 08/2018	visiting professor from Jilin University, China
(4)	Dr. Junge Zhi	08/2015 – 08/2016	visiting professor from Beijing Institute of Technology, China
(3)	Dr. Lili Wu	06/2014 – 06/2015	visiting professor from Wuhan University of Technology, China
(2)	Dr. Soo-Hyoung Lee	01/2012 – 07/2013	visiting professor from Chungbuk National University, South Korea
(1)	Dr. Jianfeng Zhang	09/2008 – 02/2009	visiting professor from Ningbo University, China

Visiting Students (5)

(5)	Sam Lawson	03/2017 – 04/2017	visiting student from Warwick, UK
(4)	Yun Zhu	07/2016 – 08/2016	visiting student from USTC, China
(3)	Seunghun Eom	06/2012 – 05/2014	visiting student from Chungbuk National University, South Korea
(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

(31)	Kyle Cushman (graduate student)	3 rd place at the 3 rd annual Future of Materials Research II (FOM II) Workshop
------	---------------------------------	---

- (30) Spencer Bradshaw (undergraduate) James Maguire Memorial Award, Chemistry Department at UNC
- (29) Nicole Bauer (graduate student) Dissertation Completion Fellowship
- (28) Nicole Bauer (graduate student) Druscilla French Graduate Student Excellence Fellowship, Chemistry Department at UNC
- (27) Jeromy Rech (graduate student) 2nd place at the 2nd annual Future of Materials Research II (FOM II) Workshop
- (26) Allison Kelly (graduate student) 3rd place at the 1st annual Future of Materials Research (FOM) Workshop
- (25) Ian VonWald (graduate student) 1st place at the 5th annual Triangle Student Research Competition (TSRC)
- (24) Stephanie Liffland (undergraduate) Francis P. Venable Medal, Chemistry Department at UNC
- (23) Qianqian Zhang (graduate student) "Excellence in Polymer Graduate Research" ACS POLY Division
- (22) Stephanie Liffland (undergraduate) Jason D. Altom Memorial Award for Undergraduate Research, Chemistry Department at UNC
- (21) Ian VonWald (graduate student) NSF Graduate Fellowship
- (20) Elizabeth Keenan (graduate student) NSF Graduate Fellowship
- (19) Maggie Radack (undergraduate) Francis P. Venable Medal (highest award for UNC Chem BS graduates)
- (18) Maggie Radack (undergraduate) Poster Award, NC-ACS meeting
- (17) Maggie Radack (undergraduate) Jason D. Altom Memorial Award for Undergraduate Research, Chemistry Department at UNC
- (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 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

Annually reviewing ~ 10 – 20 proposals for NSF/DoE; ~ 40 – 50 manuscripts for ACS journals, Wiley journals, and Nature series.

- (29) Organizer, The 2nd WUT International Symposium on Advanced Optoelectronic Materials and Devices, June 23-25, 2018, Wuhan, China
- (28) Presenter, ACS POLY Webinar, April 24, 2018
- (27) co-Chair, SERMACS, Symposium "Nanostructured Polymers: Chemistry and

- Applications,” November 8-10, 2017, Charlotte, NC
- (26) Discussion leader, GRC Polymer, June 11-16 2017, Mount Holyoke College, MA
 - (25) co-Chair, International Conference of Electroluminescence and Optoelectronic Devices (ICEL), October 2-5, 2016, Raleigh, NC
 - (24) National Science Foundation, Panelist for GRFP, Jan 2016
 - (23) co-Chair, American Chemical Society Spring 2015 National Meeting, Symposium: “Celebrating the Fifth Year Anniversary of Polymer Chemistry (RSC)”, March 22, 2015, Denver, CO
 - (22) National Science Foundation, Panelist, March 2015
 - (21) co-Chair, SERMACS, Symposium “Conjugated Organic Materials for Energy Storage, Energy Conversion and Charge Transport”, October 17-19, 2014, Nashville, TN
 - (20) National Science Foundation, Panelist, September 2014
 - (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

- (14) Faculty Search Committee for Dept. of Applied Physical Sciences, 2018-2019
- (13) Faculty Search Committee for Dept. of Applied Physical Sciences, 2017-2018
- (12) Faculty Search Committee for Dept. of Applied Physical Sciences, 2016-2017
- (11) Faculty Search Committee for Dept. of Applied Physical Sciences, 2015-2016
- (10) Faculty Search Committee, 2015-2016 (hired Leibfarth)
- (9) Chair Search Committee for Chemistry, UNC, 2015
- (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 – 2017
- (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

- (5) CHANL Advisory Board, 2018-
- (4) Hettleman Prize Selection Committee, 2017-2019
- (3) Faculty Council, 2014 – 2017 (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

- (13) Participating in UNC Science Expo, April 6, 2019
- (12) Participating in UNC Science Expo, April 14, 2018
- (11) Participating in UNC Science Expo, April 22, 2017
- (10) Participating in UNC Science Expo, April 09, 2016
- (9) Participating in UNC Science Expo, April 11, 2015
- (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