WEI YOU

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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

2006-present	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

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

(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)

(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 Uy, Liqiang Yang, Huaxing Zhou, Samuel C. Price, and **Wei You***. *Macromolecules* **2011**, *44,* 9146.

(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)

(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.

(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" Shenqiang 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

(2) "Polymer with Tunable Band Gaps for Photonic and Electronic Applications." **Wei You**. Provisional was filed on June 8th, 2010.

(1) "Polymer with Tunable Band Gaps for Photonic and Electronic Applications." **Wei You**. Provisional was filed on July 10th, 2009. Conversion to PCT was initiated in March 2010

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." Rycel 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

(15)	SPIE Organic Photovoltaics XII	August 24, 2011
(14)	Joint Navy Air Force Organic Hybrid Solar Cell Research Program Review	June 28, 2011
(13)	Konarka Technologies	November 2, 2010
(12)	Oak Ridge Organic Photovoltaics Workshop	September 15, 2010
(11)	American Chemical Society 239th National Meeting San Francisco, CA (in POLY/PMSE Young Investigator Symposium)	March 23, 2010
(10)	Nano Conferences, Wake Forest University	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	May 19, 2009
(7)	External Advisory Board Meeting of Chemistry Department UNC Chapel Hill	May 15, 2009
(6)	American Chemical Society 237th 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 3rd International Symposium on Polymer Chemistry PC' 2008, Hefei, China — June 17, 2008

(2) 4th Japan-US Young Researcher Exchange Symposium Tohoku University, Sendai, Japan — May 30, 2007

(1) 4th Japan-US Young Researcher Exchange Symposium UNC Charlotte, Charlotte, NC — March 7, 2007

b. Departmental Seminar

(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, Renssellaer 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

(3) American Chemical Society 238th National Meeting Washington, DC — August 19, 2009

(2) Gordon Research Conference: Polymers — June 23, 20009

Mount Holyoke College, South Hadley, MA (poster)

(1) Materials Research Society Spring Meeting, San Francisco, CA March 26, 2008

7. TEACHING RECORD

a. Course Assignments

(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

(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

<u>Current Group</u>

Graduate Students

(11)	Andrew Stuart	5th Year	BS: North Carolina State University
(10)	Rycel Uy	4th Year	BS: University of Nevada, Las Vegas
(9)	Liqiang Yang	4th Year	BS: Xi'an Jiaotong University (China)
(8)	Jason Dyke	3rd Year	BS: Indiana University
(7)	Wentao Li	2nd Year	BS: USTC (China)
(6)	Travis LaJoie	2nd Year	BS: University of Florda
(5)	Robert Bruce	2nd Year	BS: Cornell University
(4)	Josh Yablonski	2nd Year	BS: Millersville University
(3)	Rui Jin	2nd Year	MS: Zhengzhou University (China)
(2)	Sam Anderson	1st Year	BS: University of Rochester
(1)	Adam Alman	1st Year	BS: Central Washington University

Undergraduate Students

(4)	Maggie Radack	01/2012 – present	Class of 2014
(3)	Erik Thiede	08/2011 – present	Class of 2013
(2)	Adam Rieth	08/2011 – present	Class of 2012
(1)	Matt Wilkins	08/2011 – present	visiting student from Bristol

Visiting Student

(1)	Yanni Jie	10/2009 – present	visiting student from Northwest Polytechnical University, Xi'an, China

Volunteer

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

<u>Former Members</u>

Postdoctoral Scholars

(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

(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: postdoc at UC Berkeley

Undergraduate Students

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

High School Students

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

Visiting Scholar

(2)	Dr. Jianfeng Zhang	09/2008 – 02/2009	visiting professor from Ningbo University,

China

Visiting Student

(1)	Peng Dai	10/2007 – 05/2008	visiting student from KTH, Sweden

Awards, Honors, and Special Achievements

(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 (undergrad)	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. GRANT ACQUISITIONS

a. Current Extramural Funding (Title, Agency, Project Period, Total Award Amount)
(~$2 MM current; total up to date: ~$2.4 MM; single PI + Wei You's share if center grant)

(7) Title: SOLAR Collaborative: Designing and Modeling Advanced Nanostructure Based Hybrid Solar Cells
Award Period: 09/01/11 – 08/31/14 **Award Amount:** $320,000
Source: NSF **Role:** PI

(6) Title: Organic/Molecular Materials Science: Integration of Synthesis with Devices
Award Period: 07/01/11 – 06/30/16 **Award Amount:** $75,000
Source: Dreyfus Teacher Scholar Award **Role:** PI

(5) Title: Collaborative Research: Using Conjugated Polymer Brushes to Control Interfacial Properties and Morphology of Polymer Solar Cells
Award Period: 04/01/11 – 03/31/14 **Award Amount:** $270,000
Source: NSF CHE **Role:** PI

(4) Title: Improving Efficiency of Polymer Solar Cells via Novel Materials and Device Structures
Award Period: 01/01/11 – 12/31/13 **Award Amount:** $420,000
Source: ONR **Role:** PI

(3) Title: CAREER: Search for Ideal Polymers for Highly Efficient Organic Solar Cells
Award Period: 01/01/10 – 12/31/14 **Award Amount:** $490,000
Source: NSF DMR **Role:** PI

(2) Title: Center for Molecular Spintronics
Award Period: 09/01/09 – 08/31/12 **Award Amount:** $130,594(W. You's share)

Source: NSF CHE **Role:** co-PI

(1) Title: UNC-CH EFRC: Solar Fuels and Next Generation Photovoltaics
Award Period: 07/01/09 – 06/30/14 **Award Amount:** $250,000(W. You's share)
Source: DOE **Role:** co-PI

b. Completed Grants

(5) Title: Monofluorinated Poly(thiophene)s: Tuning the Electronic Structure of Conjugated Polymers towards Highly Efficient Solar Cells
Award Period: 08/15/08 – 08/14/11 **Award Amount:** $75,000
Source: DuPont Young Professor Award **Role:** PI

(4) Title: Investigation of Low Bandgap Polymers based on Quarta-thieno-naphthalene for Organic Photovoltaics
Award Period: 06/01/09 – 09/30/10 **Award Amount:** $100,000
Source: ONR **Role:** PI

(3) Title: Optically and Electrochemically Tunable Polymers for Photovoltaics
Award Period: 01/01/08 – 12/31/08 **Award Amount:** $10,000 (direct)
Sources: DuPont Science and Engineering Grant **Role:** PI

(2) Title: NER: Active Spin Valves Through Self-Assembly of Organic Magnetic Nanostructures
Award Period: 05/01/07 – 04/30/08 **Award Amount:** $130,000
Sources: NSF ECCS **Role:** Lead PI, with 1 co-PI

(1) Title: Low Bandgap Polymers for Organic Solar Cells
Award Period: 11/01/06 – 10/31/09 **Award Amount:** $120,000 (direct)
Sources: NSF STC (UNC) **Role:** PI

9. PROFESSIONAL SERVICES

a. Service to discipline

(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

(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 – present
(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

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

d. Services to the public

(4) Lecture at NC Science Expo, September 25, 2010
(3) Participating in the Climate LEAP program every summer (2009, 2010, 2011)
(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

(*updated on 02/06/2012*)