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**Educational History**:

Ph.D., 1998, Chemistry, Politehnica University of Bucharest, Romania

Thesis: Synthesis of Random and Block Copolymers of Styrene by Anionic Polymerization

M.S., 1995, Chemistry, Politehnica University of Bucharest, Romania

Thesis: Anionic Coordinative Polymerization of Dienes using Neodymium Catalysts

B.S., 1994, Chemical Engineering, Politehnica University of Bucharest, Romania

**Employment History – principal positions since the Bachelor**’**s degree**:

Eugene McDermott Professor, 05/01/2018-present, University of Texas at Dallas, Department of Chemistry and Biochemistry, Department of Bioengineering, 800 West Campbell Road, Richardson, TX, 75080

Fellow, Eugene McDermott Professor, 05/01/2018-09/01/2018, University of Texas at Dallas, Department of Chemistry and Biochemistry, Department of Bioengineering, 800 West Campbell Road, Richardson, TX, 75080

Associate Professor, 08/01/2014-05/01/2018, University of Texas at Dallas, Department of Bioengineering, 800 West Campbell Road, Richardson, TX, 75080

Associate Professor, 08/01/2013-05/01/2018, University of Texas at Dallas, Department of Chemistry and Biochemistry, 800 West Campbell Road, Richardson, TX, 75080

Assistant Professor, 08/01/2007-08/01/2013, University of Texas at Dallas, Department of Chemistry and Biochemistry, 800 West Campbell Road, Richardson, TX, 75080

Research Scientist (Research Faculty Track), 06/01/2006-08/01/2007, Carnegie Mellon University, Department of Chemistry, 4400 Fifth Avenue, Pittsburgh, PA, 15213

Visiting Assistant Professor, 07/01/2003-06/01/2006, Carnegie Mellon University, Department of Chemistry, 4400 Fifth Avenue, Pittsburgh, PA, 15213

Advisor: Dr. Richard D. McCulloughPostdoctoral Fellow, 02/01/2002-07/01/2003, Carnegie Mellon University, Department of Chemistry, 4400 Fifth Avenue, Pittsburgh, PA, 15213

Advisor: Dr. Krzysztof Matyjaszewski

Postdoctoral Fellow, 10/01/1999-01/01/2002, University of the Western Cape, Cape Town, South Africa

Advisor: Dr. Selwyn Mapolie

Chemical Engineer, 02/01/1998-10/01/1999, National Institute for Chemical Research, Bucharest, Romania

**Employment History-concurrent, temporary, or visiting appointments** **and consultantships**:

Affiliate Faculty, 01/01/2009-present, University of Texas at Dallas, Department of Materials Science & Engineering

Visiting Assistant Professor, 09/01/1998-09/01/1999, Politehnica University of Bucharest

**Professional recognitions and honors (study**, **teaching**, **research**, **service)**:

NS&M Outstanding Teacher Award, 2017-2018, University of Texas at Dallas

Provost’s Award for Faculty Excellence in Undergraduate Research Mentoring, 2015, University of Texas at Dallas

President’s Teaching Excellence Award, 2014, University of Texas at Dallas

Inclusive Teaching Diversity Award, 2012, University of Texas at Dallas

NSF Early Career Award, 2010-2015

NS&M Outstanding Teacher Award, 2009, University of Texas at Dallas

Student Merit Award, 1994-1995, Politehnica University of Bucharest

**Professional memberships**:

Materials Research Society, 2007 – present

American Chemical Society, 2002 – present

**Achievements in original investigation**:

(Before 2008, **Mihaela C**. **Stefan** was published under the name **Mihaela C**. **Iovu**)

**Books authored or co-authored**:

1. Washington, Katherine E.; Kularatne, Ruvanthi N.; Karmegam, Vasanthy; Biewer, Michael C.; **Stefan, Mihaela C.**; Stimuli responsive poly(ε-caprolactone)s for drug delivery applications. In *Stimuli-Responsive Polymeric Nanocarriers for Drug Delivery Applications Vol. 1: Types & Triggers*; Makhlouf, A.S.H.; Abu-Thabit, N.Y.; Elsevier, 2018; pp 501-529. DOI: 10.1016/C2016-0-00601-0
2. Haynes, Dahlia; **Stefan**, **Mihaela** **C**.; McCullough, Richard D. Conjugated–Insulating Block Copolymers: Synthesis, Morphology, and Electronic Properties. In *Semiconducting Polymer Composites: Principles, Morphologies, Properties and Applications*, Yang, Xiaoniu, Ed.; Wiley-VCH: Verlag GmbH & Co. KGaA, Weinheim, Germany, 2012; pp 299-330. DOI: 10.1002/9783527648689.ch11.
3. Magurudeniya, Harsha D.; Peishen Huang; Gunathilake, Samodha S.; Rainbolt, Elizabeth A.; Biewer, Michael C.; **Stefan**, **Mihaela C**.Semiconducting Polymers: Polythiophenes. In *Encyclopedia of Polymer Science and Technology*, John Wiley & Sons, Inc., 2012; pp 1-36. DOI: 10.1002/0471440264.pst628.
4. Ewbank, Paul C.; **Stefan**, **Mihaela C**.; Sauve, Genevieve; McCullough, Richard D. Synthesis, Characterization and Properties of Regioregular Polythiophene-Based Materials. In *Handbook of Thiophene-Based Materials: Applications in Organic Electronics and Photonics*, Perepichka, Igor F., Perepichka, Dmitrii F., Eds.; John Wiley & Sons, Ltd, Chichester, UK., 2009; pp 157-217. DOI: 10.1002/9780470745533.ch2.
5. Buzdugan**,** Emil; **Iovu, Mihaela C**.; Iovu, HoriaChemical Reactions of Polymers. In *Printech*, 1999 (in Romanian).

**Articles submitted for publication**:

1) Kularatne, Ruvanthi N.; Bulumulla, Chandima; Calubaquib, Erika L.; Gunawardhana, Ruwan; Michael, Biewer C.; **Mihaela**, **Stefan C**. A Neodymium Catalyst for the Polymerization of Lactones. *Polymer Chemistry* **2018** (under review)

2) Dissanayake, Dushanthi S.; Gunathilake, Samodha S.; Du, Jia; Sheina, Elena E.; Yoo, Sang Ha; Lee, Youngmin; Gomez, Enrique D.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Conductive Triethylene Glycol Monomethyl Ether Substituted Polythiophenes with High Stability in the Doped State. *Macromolecular Chemistry and Physics* **2018** (under review)

**Articles in refereed journals**:

**Independent contributions**:

1. Bulumulla, Chandima; Gunawardhana, Ruwan; Gamage, Prabhath L.; Kularatne, Ruvanthi N.; Biewer, Michael C.; **Stefan**, **Mihaela C**. π-Spacer Linked Bisthienopyrroles with Tunable Optical Properties. *Synlett* **2018**, DOI: 10.1055/S-0037-1611055.
2. Bulumula, Chandima; Gunawardhana, Ruwan; Yoo, Sang Ha; Mills, Cody R.; Kularatne, Ruvanthi N.; Jackson, Thomas N.; Biewer, Michael C.; Gomez, Enrique D.; **Stefan**, **Mihaela C**. The effect of single atom replacement on organic thin film transistors: case of thieno[3,2-*b*]pyrrole vs. furo[3,2-*b*]pyrrole. *Journal of Materials Chemistry C* **2018**, *6*, 150-158 DOI: 10.1039/c8tc02887g.
3. Karmegam, Vasanthy; Gedara, Chinthaka M. Udamulle; Biewer, Michael C.; **Stefan**, **Mihaela C**. Synthesis and Opto-Electronic Properties of Functionalized Pyrimidine-Based Conjugated Polymers. *Journal of Polymer Science, Part A* **2018**, DOI: 10.1002/pola.29234.
4. Bulumulla, Chandima; Kularatne, Ruvanthi N.; Gunawardhana, Ruwan; Nguyen, Hien Q.; McCandless, Gregory T.; Biewer, Michael C.; **Stefan**, **Mihaela C**. [Incorporation of Thieno[3,​2-​b]​pyrrole into Diketopyrrolopyrrole-​Based Copolymers for Efficient Organic Field Effect Transistors](https://scifinder-cas-org.libproxy.utdallas.edu/scifinder/references/answers/CE3D4B17X86F35099X19A9590443FF9E4500:CE41377CX86F35092X1DBBA48C40E6F30EBE/1.html?nav=eNpb85aBtYSBMbGEQcXZ1cTQ2NzcOcLCzM3Y1MDSKMLQxcnJ0cTC2cTAFShk4OrkClSaVFzEIJiVWJaol5OYl67nmVeSmp5aJPRowZLvje0WTAyMngysZYk5pakVRQwCCHV-pblJqUVta6bKck950M3EwFBRwMDAwAw0MKOEQdoxNMTDPyje0y_M1S8EyPDzj3cP8g8N8PRzL2HgzMwtyC8qAZpQXMhQx8AM1McAFM3OLQhKLUQRBQBcFTuA&key=caplus_2018:945315&title=SW5jb3Jwb3JhdGlvbiBvZiBUaGllbm9bMywyLWJdcHlycm9sZSBpbnRvIERpa2V0b3B5cnJvbG9weXJyb2xlLUJhc2VkIENvcG9seW1lcnMgZm9yIEVmZmljaWVudCBPcmdhbmljIEZpZWxkIEVmZmVjdCBUcmFuc2lzdG9ycw&launchSrc=reflist&pageNum=1&sortKey=ACCESSION_NUMBER&sortOrder=DESCENDING). *ACS Macro Letters* **2018**,*7*, 629-634. DOI: 10.1021/acsmacrolett.8b00236.
5. Quiram, Gina; Montagner, Francisco; Palmer, Kelli L.; **Stefan**, **Mihaela C**.; Washington, Katherine E., Rodrigues, Danieli C. Synthesis and Characterization of Chlorhexidine-Containing Polymeric Trilayer Nanoparticles for Intracanal Medicament. *Journal of Functional Biomaterials* **2018**,*9*, 29 E29. DOI: 10.3390/jfb9020029.
6. Ren, Yixin; Kularatne, Ruvanthi N. Miller, Justin T. Polderman, Stefanie T.; Vo, Trinh D.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Neodymium-Based Catalysts Bearing Phosphate Ligands for Ring-Opening Polymerization of ε-Caprolactone. *Journal of Polymer Science*, *Part A*: *Polymer Chemistry* **2018**, *56*, 1289-1296.DOI: org/10.1002/pola.29010.
7. Bulumulla, Chandima; Gunawardhana, Ruwan; Kularatne, Ruvanthi N.; Hill, Madison E.; McCandless, Gregory T.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Thieno[3,​2-​b]​pyrrole-​benzothiadiazole Banana-​Shaped Small Molecules for Organic Field-​Effect Transistors. *ACS Applied Materials & Interfaces* **2018**, *10*, 11818-11825. DOI: 10.1021/acsami.8b01113.
8. Kularatne, Ruvanthi N.; Washington, Katherine E.; Bulumulla, Chandima; Calubaquib, Erika L.; Biewer, Michael C.; Oupicky, David; **Stefan**, **Mihaela C**. Histone Deacetylase Inhibitor (HDACi) Conjugated Polycaprolactone for Combination Cancer Therapy. *Biomacromolecules* **2018**, *19*, 1082-1089. DOI: 10.1021/acs.biomac.8b00221.
9. Washington, Katherine E.; Kularatne, Ruvanthi N.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Combination Loading of Doxorubicin and Resveratrol in Polymeric Micelles for Increased Loading Efficiency and Efficacy. ACS Biomaterials Science & Engineering**2018**, *4*, 997-1004. DOI: 10.1021/acsbiomaterials.7b00972.
10. Kularatne, Ruvanthi N.; Yang, Annie; Nguyen, Hien Q.; McCandless Greg; **Stefan**, **Mihaela C**. Neodymium Catalyst for Polymerization of Dienes and Polar Vinyl Monomers. *Macromolecular Rapid Communications* **2017**, *38*, 1700427. DOI: 10.1002/marc.201700427.
11. Washington, Katherine E.; Quiram, Gina; Nguyen, Angela; Kularatne, Ruvanthi N.; Minary-Jolandan, Majid; Zimmern, Philippe; **Stefan**, **Mihaela C**. Bioerosion of Synthetic Sling Explants. *ACS Biomaterials Science & Engineering* **2017**, *3*, 2598-2605.DOI: 10.1021/acsbiomaterials.7b00614.
12. Du, Jia; Bulumulla, Chandima; Mejia, Israel; McCandless, Gregory T.; Biewer, Michael C.; **Stefan**, **Mihaela C.** Evaluation of (*E*)-1,2-di(furan-2-yl)ethene as Building Unit in Diketopyrrolopyrrole Alternating Copolymers for Transistors. *Polymer Chemistry* **2017**, *8*, 6181-6187. DOI: 10.1039/C7PY01373F.
13. Pathiranage, Taniya M.S.K.; Magurudeniya, Harsha D.; Biewer, Michael C.; **Stefan**, **Mihaela C**.Effect of Thiophene Spacers in Benzodithiophene Based Polymers for Organic Electronics. *Journal of Polymer Science Part A: Polymer Chemistry* **2017**, *55*, 3942-3948. DOI: 10.1002/pola.28781.
14. Karmegam, Vasanthy; Soltantabar, Pooneh; Calubaquib, Erika Joy L.; Kularatne, Ruvanthi, N.; **Stefan**, **Mihaela C**. Biodegradable Aliphatic Polyesters for Drug Delivery. *Material Matters* **2017**, *12*, 37-41.
15. Pathiranage, Taniya M. S. K.; Dissanayake, Dushanthi S.; Niermann, Crystal N.; Ren, Yixin; Biewer, Michael C.; **Stefan**, **Mihaela C**. Role of Polythiophenes as Electroactive Materials. *Journal of Polymer Science* *Part A*: *Polymer Chemistry* **2017**, *55*, 3327-3346. DOI: 10.1002/pola.28726.
16. Dissanayake, Dushanthi S.; McCandless, Gregory T.; **Stefan**, **Mihaela C**.; Biewer, Michael C. Systematic Variation of Thiophene Substituents in Photochromic Spiropyrans. *Photochemical & Photobiological Sciences* **2017**, *16*, 1057-1062. DOI: 10.1039/C7PP00057J.
17. Du, Jia; Fortney, Andria; Washington, Katherine E.; Biewer, Michael C.; Kowalewski, Tomasz; **Stefan**, **Mihaela C**. Benzodifuran and Furan Substituted Diketopyrrolopyrrole Alternating Copolymer for Organic Photovoltaics with High Fill Factor. *Journal of Materials Chemistry A* **2017**, *5*,15591-15600. DOI: 10.1039/C7TA04618A.
18. Washington, Katherine E.; Kularatne, Ruvanthi N.; Du, Jia; Ren, Yixin; Gillings, Matthew J.; Geng, Calvin X.; Biewer, Michael C.; **Stefan**, **Mihaela C.** Thermoresponsive star-like γ-substituted poly(caprolactone)s for micellar drug delivery. *Journal of Materials Chemistry B* **2017**, *5*, 5632-5640. DOI: 10.1039/C7TB01291H.
19. Senevirathne, Suchithra A.; Washington, Katherine E.; Miller, Jason B.; Biewer, Michael C.; Oupicky, David; Siegwart, Daniel J.; **Stefan**, **Mihaela C**. HDAC Inhibitor Conjugated Polymeric Prodrug Micelles for Doxorubicin Delivery. *Journal of Materials Chemistry B* **2017**, *5*, 2106-2114. DOI:10.1039/C6TB03038.
20. Bulumulla, Chandima; Du, Jia; Washington, Katherine E.; Kularatne, Ruvanthi N.; Nguyen, Hien Q.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Influence of Functionalized Side Chains of Polythiophene Diblock Copolymers on the Performance of CdSe Quantum Dot Hybrid Solar Cells. *Journal of Materials Chemistry A* **2017**, *5*, 2473-2477. DOI:10.1039/C6TA09573A.
21. Dissanayake, Dushanthi S.; Sheina, Elena; Biewer, Michael C.; McCullough, Richard D.; **Stefan**, **Mihaela** **C**. Determination of Absolute Molecular Weight of Regioregular Poly(3-hexylthiophene) by 1H-NMR Analysis. *Journal of Polymer Science* *Part A*: *Polymer Chemistry* **2017**, *55*, 79-82. DOI: 10.1002/pola.28354.
22. Washington, Katherine E.; Kularatne, Ruvanthi N.; Karmegam, Vasanthy; Biewer, Michael C.; **Stefan**, **Mihaela C**. Recent Advances in Aliphatic Polyesters for Drug Delivery Applications. *WIREs Nanomedicine and Nanobiotechnology* **2017**. *9*, DOI: 10.1002/wnan.1446.
23. Du, Jia; Fortney, Andria; Washington, Katherine E.; Bulumulla, Chandima; Huang, Peishen; Dissanayake, Dushanthi S.; Biewer, Michael C.; Kowalewski, Tomasz; **Stefan**, **Mihaela C**. Systematic Investigation of Benzodithiophene-Benzothiadiazole Isomers for Organic Photovoltaics. *ACS Applied Materials & Interfaces* **2016**, *8*, 33025-33033. DOI:10.1021/acsami.6b11806.
24. Pathiranage, Taniya M. S. K.; Kim, Minkyung; Nguyen, Hien Q.; Washington, Katherine E.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Enhancing Long-Range Ordering of P3HT by Incorporating Thermotropic Biphenyl Mesogens via ATRP. *Macromolecules* **2016**, *49*, 6846-6857. DOI: 10.1021/acs.macromol.6b01378.
25. Washington, Katherine E.; Kularatne, Ruvanthi N.; Du, Jia; Gillings, Matthew J.; Webb, Jack C.; Doan, Nicolette C.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Synthesis of Linear and Star-like Poly(ε-caprolactone)-*b*-poly{γ-2-[2-(2-methoxy-ethoxy)ethoxy]ethoxy-ε-caprolactone} Amphiphilic Block Copolymers using Zinc Undecylenate. *Journal of Polymer Science Part A: Polymer Chemistry* **2016**, *54*, 3601-3608. DOI: 10.1002/pola.28246.
26. Du, Jia; Biewer, Michael C.; **Stefan**, **Mihaela C**. Benzothiadiazole Building Units in Solution-Processable Small Molecules for Organic Photovoltaics. *Journal of Materials Chemistry A* **2016**, *4*, 15771-15787. DOI: 10.1039/C6TA06241E.
27. Haseeb, Ridwan; Lau, Michael; Sheah, Max; Montagner, Francisco; Quiram, Gina; Palmer, Kelli; **Stefan**, **Mihaela C**.; Rodrigues, Danieli C. [Synthesis and Characterization of New Chlorhexidine-Containing Nanoparticles for Root Canal Disinfection](http://www.mdpi.com/1996-1944/9/6/452/htm). *Materials* **2016**, *9*, 452-466. DOI: 10.3390/ma9060452.
28. Senevirathne, Suchithra A.; Washington, Katherine E.; Biewer, Michael C.; **Stefan**, **Mihaela C**. PEG-Based Anti-Cancer Drug Conjugated Pro-Drug Micelles for the Delivery of Anti-Cancer Agents. *Journal of Materials Chemistry B* **2016**, *4*, 360-370. DOI: 10.1039/C5TB02053K.
29. Nagai, Atsushi; Miller, Jason B.; Du, Jia; Kos, Petra; **Stefan**, **Mihaela C**.; Siegwart, Daniel J. Biocompatible Organic Charge Transfer Complex Nanoparticles Based on a Semicrystalline Cellulose Template. *Chemical Communications* **2015**, *51*, 11168-11871. DOI: 10.1039/C5CC03822G.
30. Pathiranage, Taniya M. S. K.; Magurudeniya, Harsha D.; Bhatt, Mahesh P.; Rainbolt, Elizabeth A.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Synthesis and Characterization of Side-chain Thermotropic Liquid Crystalline Copolymers Containing Regioregular Poly(3-hexylthiophene). *Polymer* **2015**, *72*, 317-326. DOI: [10.1016/j.polymer.2015.04.005](http://doi.org/10.1016/j.polymer.2015.04.005).
31. Huang, Peishen; Gunathilake, Samodha S.; Rainbolt, Elizabeth A.; Murphy, John W.; Black, Kevin T.; Barrera, Diego; Hsu, Julia W. P.; Gnade, Bruce E.; **Stefan**, **Mihaela C**.; Biewer, Michael C. Benzodifuran and Benzodithiophene Donor-Acceptor Polymers for Bulk Heterojunction Solar Cells. *Journal of Materials Chemistry A* **2015**, *3*,6980-6989. DOI: 10.1039/C5TA00936G.
32. Huang, Peishen; Du, Jia; Biewer, Michael C.; **Stefan**, **Mihaela C**. Developments of Furan and Benzodifuran Semiconductors for Organic Photovoltaics. *Journal of Materials Chemistry A* **2015**, *3*, 6244-6257. DOI: 10.1039/C4TA07111E.
33. Holmes, Natalie P.; Nicolaidis, Nicolas; Feron, Krishna; Barr, Matthew; Bruke, Kerry B.; Al-Mudhaffer, Mohammed; Sista, Prakash; Kilcoyne, David A. L.; **Stefan**, **Mihaela C**.; Zhou, Xiaojin Probing the Origin of Photocurrent in Nanoparticulate Organic Photovoltaics. *Solar Energy Materials & Solar Cells* **2015**, *140*, 412-421. DOI: [10.1016/j.solmat.2015.04.044](http://doi.org/10.1016/j.solmat.2015.04.044).
34. Kularatne, Ruvini S.; Sista, Prakash; Magurudeniya, Harsha D.; Hao, Jing; Nguyen, Hien Q.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Donor-Acceptor Semiconducting Polymers Containing Pyromellitic Diimide. *Journal of Polymer Science* *Part A*: *Polymer Chemistry* **2015**, *53*, 1617-1622. DOI: [10.1002/pola.27607](http://dx.doi.org/10.1002/pola.27607).
35. Rainbolt, Elizabeth A.; Miller, Jason B.; Washington, Katherine E.; Senevirathne, Suchithra A.; Biewer, Michael C.; Siegwart, Daniel J.; **Stefan**, **Mihaela C**. Fine-Tuning Thermoresponsive Functional Poly(ε-caprolactone) to Enhance Micelle Stability and Drug Loading. *Journal of Materials Chemistry Part B* **2015**,*3*, 1779-1787. DOI: 10.1039/C4TB02016B.
36. Rainbolt, Elizabeth A.; Washington, Katherine E.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Recent Developments in Micellar Drug Carriers Featuring Substituted Poly(ε-caprolactone)s. *Polymer Chemistry* **2015**,*6*, 2369-2381. DOI:10.1039/c4py01628a.
37. Senevirathne, Suchithra A.; Boonsith, Suthida; Oupicky, David; Biewer, Michael C.; **Stefan**, **Mihaela C**. Synthesis and Characterization of Valproic Acid Ester Pro-Drug Micelles via an Amphiphilic Polycaprolactone Block Copolymer Design. *Polymer Chemistry* **2015**, *6*, 2386-2389. DOI: 10.1039/c4py01808g.
38. Kapllani, Alda; Dillard, Caitlin; Washington, Katherine E.; Biewer, Michael C.; **Stefan**, **Mihaela C**.; Kalra, Vihba Self-Assembly of Poly(3-hexylthiophene)-*block*-Poly(γ-benzyl-L-glutamate) within Solution-Cast Films and Nanofibers. *Macromolecular Materials and Engineering* **2014**, *299*, 1484-1493. DOI: 10.1002/mame.201400148.
39. Gunathilaka, Samodha S.; Huang, Peishen; Bhatt, Mahesh P.; Rainbolt, Elizabeth A.; **Stefan**, **Mihaela C**.; Biewer, Michael C. Nitrogen Containing Graphene-Like Structures from Pyrolysis of Pyrimidine Polymers for Polymer/Graphene Hybrid Field Effect Transistors. *RSC Advances* **2014**, *4*, 41997-42001. DOI: 10.1039/C4RA06498D.
40. Bhatt, Mahesh P.; Du, Jia; Rainbolt, Elizabeth A.; Pathiranage, Taniya M. S. K.; Huang, Peishen; Reuther, James F.; Novak, Bruce M.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Semiconducting Liquid Crystalline Block Copolymer Containing Regioregular Poly(3-hexylthiophene) and Nematic Poly(n-hexyl isocyanate) and its Application in Bulk Heterojunction Solar Cells. *Journal of Materials Chemistry A* **2014**, *2*, 16148-16156. DOI: 10.1039/C4TA02852J.
41. Holmes, Natalie P.; Ulum, Syahrul; Sista, Prakash; Burke, Kerry B.; Wilson, Mitchell G.; **Stefan**, **Mihaela C**.; Zhou, Xiaojing; Dastoor, Paul C.; Belcher, Warwick J. The Effect of Polymer Molecular Weight on P3HT:PCBM Nanoparticulate Organic Photovoltaic Device Performance. *Solar Energy Materials & Solar Cells* **2014**, *128*, 369-377. DOI: [10.1016/j.solmat.2014.05.046](http://doi.org/10.1016/j.solmat.2014.05.046).
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46. Rainbolt, Elizabeth A.; Washington, Katherine E.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Towards Smart Polymeric Drug Carriers: Self-Assembling γ-Substituted Polycaprolactones with Highly Tunable Thermoresponsive Behavior. *Journal of Materials Chemistry B* **2013**, *1*, 6532-6537. DOI: 10.1039/C3TB21488E.
47. Holmes, Natalie P.; Burke, Kerry B.; Sista, Prakash; Barr, Matthew; Magurudeniya, Harsha D.; **Stefan**, **Mihaela C**.; Kilcoyne, A. L. David; Zhou, Xiaojing; Dastoor, Paul C.; Belcher, Warwick J. Nano-Domain Behaviour in P3HT:PCBM Nanoparticles, Relating Material Properties to Morphological Changes. *Solar Energy Materials & Solar Cells* **2013**, *117*, 437-445. DOI: 10.1016/j.solmat.2013.06.003.
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**Publications prior to joining University of Texas at Dallas:**

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**Invited talks/presentations to seminars or colloquia assemblies**:

1. Combination Loading of Doxorubicin and Resveratrol in Polycaprolactone Polymeric Micelles, 256th ACS National Meeting & Exposition, 08/22/2018, Boston, Massachusetts
2. Functional Polycaprolactones for Drug Delivery, 06/14/2018, Houston Methodist Research Institute
3. Functional Polymers for Drug Delivery Applications, 4th Functional Polymeric Materials Conference, 06/07/2018, Nassau, Bahamas
4. Functional Polycaprolactones for Delivery of Anticancer Drugs and Histone Deacetylase Inhibitors, 06/30/2017, Department of Chemistry, University of Bucharest, Romania
5. Donor-Acceptor Polymers for Organic Photovoltaics, 10/06/2016, Department of Chemical Engineering, University of Houston
6. Functional Polycaprolactones for Micellar Delivery of Anticancer Drugs, 12/04/2015, Department of Biomedical Engineering, University of North Texas
7. Thermoresponsive Polycaprolactones for Micellar Drug Delivery, Macromolecular Engineering Symposium Honoring the Impact and the 65th Birthday of Krzysztof Matyjaszewski, 03/28/2015, Carnegie Mellon University
8. Donor-Acceptor Semiconducting Polymers for Organic Photovoltaics, 09/22/2014, Texas State University
9. Functional Polycaprolactones for Micellar Delivery of Anticancer Drugs and Histone Deacetylase Inhibitors (HDACi), 10/02/2014, Carnegie Mellon University
10. Benzodithiophene Semiconducting Polymers for Organic Photovoltaics, 03/27/2013, Indiana University
11. Thermoresponsive Polymers for Drug Delivery Applications, University of Texas Metroplex Days, 03/01/2013, University of Texas at Dallas
12. Synthesis and Self-Assembly of Aliphatic Polyesters, DFW New Young Investigators, ACS Dallas-Fort Worth Local Meeting, 01/28/2012, Texas Christian University
13. Benzodithiophene-Based Semiconducting Polymers for Organic Photovoltaics, 09/15/2011, University of South Carolina
14. Benzodithiophene Semiconducting Polymers for Organic Electronics, 10/28/2011, University of Arlington
15. Benzodithiophene-Based Semiconducting Polymers for Organic Photovoltaics, 02/01/2011, MIT/Harvard Center for Excitonics
16. Semiconducting Polymers for Organic Electronics, 10/08/2010, University of Iowa
17. Semiconducting Polymers for Organic Electronics, 10/07/2010, Iowa State University
18. Semiconducting Polymers for Organic Electronics, 09/30/2010, Oklahoma State University
19. Semiconducting Polymers for Organic Photovoltaics, 09/17/2010, University of North Texas
20. Semiconducting Polymers for Organic Photovoltaics, 04/20/2010, North Dakota State University
21. Semiconducting Polymers for Organic Photovoltaics, 10/09/2009, Duquesne University
22. New Materials for Photovoltaics, CHEMS Planning Grant Meeting, 08/19/2009, Virginia Tech
23. Polythiophene-based Materials for Organic Electronics, 04/14/2009, Texas Christian University
24. Polymers: From Research in the Laboratory to Real Life Applications, Scholars’ Day, 02/28/2009, University of Texas at Dallas
25. Polythiophenes for Organic Electronics, 02/10/2009, Ouachita Baptist University
26. Polythiophenes for Organic Electronics, 11/21/2008, Southern Methodist University

**Oral presentations at professional meetings**:

1. Benzodithiophene (BDT) Based Polymers for Organic Photovoltaics, *256th ACS National Meeting & Exposition*, Boston, MA, August 19-23, 2018.
2. Bipyrimidine Based Donor-Acceptor Conjugated Polymers for Organic Electronics*, 256th ACS National Meeting & Exposition, Boston*, MA, August 19-23, 2018.
3. Pyrrole Containing Semiconducting Small Molecules and Polymers for Organic Electronics, *255th ACS National Meeting & Exposition*, New Orleans, LA, March 18-22, 2018.
4. Ring Opening Polymerization of Lactones by a Neodymium Coordination Catalyst, *255th ACS National Meeting & Exposition*, New Orleans, LA, March 28-22, 2018.
5. Neodymium-Based Catalysts NdCl3-3L (L = Triethyl Phosphate (TEP) or Tris(2-ethylhexyl) Phosphate (TEHP) for Ring Opening Polymerization of ε-Caprolactone, *255th ACS National Meeting & Exposition*, New Orleans, LA, March 18-22, 2018.
6. Donor-Acceptor Polymers for Organic Photovoltaics, *3rd World Chemistry Conference*, Dallas, TX, September 11-12, 2017.
7. Highly Active Neodymium Catalysts for Polymerization of Dienes, *12th IUPAC International Symposium on Ionic Polymerization*, Durham University, United Kingdom, September 18-22, 2017.
8. Functional Polycaprolactones for Delivery of Anticancer Drugs and Histone Deacetylase Inhibitors, *The 9th International Conference on Advanced Materials*, *ROCAM 2017*, Bucharest, Romania, July 11-14, 2017.
9. Donor-Acceptor Molecules for Organic Photovoltaics, *253rd ACS National Meeting & Exposition*,San Francisco, CA, United States, April2-6, 2017.
10. Highly Active Neodymium Catalyst for Polymerization of Dienes and Vinyl Monomers, *72nd Southwest Regional Meeting of the American Chemical Society*, Galveston, TX, United States, November 10-13, 2016.
11. Highly Active Neodymium Catalyst for Polymerization of Myrcene and Limonene, *252nd ACS National Meeting & Exposition,* Philadelphia, PA, United States, August 21-25, 2016
12. Benzodithiophene and Benzodifuran Organic Semiconductors for Organic Photovoltaics, *251st ACS National Meeting & Exposition*, San Diego, CA, United States, March 13-17, 2016. (*Invited*)
13. Benzodithiophene and Benzodifuran Semiconductors for Bulk Heterojunction Solar Cells, *The 12th International Symposium of Functional π-Electron Systems*, University of Washington, Seattle, WA, United States, July 19-24, 2015.
14. Functional Polycaprolactones for Delivery of Anticancer Drugs, *71st Joint Southeastern/Southwest ACS Regional Meeting*,Memphis, TN, United States, November 4-7, 2015. (*Invited*)
15. Amphiphilic Polycaprolactones for Micellar Delivery of Anticancer Drugs, *Pacifichem 2015*, Honolulu, HI, United States, December 15-20, 2015.
16. Functional Polycaprolactones for Drug Delivery Applications, *70th Southwest Regional Meeting of the American Chemical Society*, Fort Worth, TX,United States, November 19-22, 2014. (*Invited*)
17. Thermoresponsive Functionalized Polycaprolactones for Micellar Drug Delivery Systems, *248th* *ACS National Meeting & Exposition*, San Francisco, CA, United States, August 10-14, 2014.
18. Semiconducting Liquid Crystalline Block Copolymers, *247th* *ACS National Meeting & Exposition*, Dallas, TX, United States, March 25-29, 2014.
19. Semiconducting Liquid Crystalline Block Copolymers for Organic Electronics Applications, *247th* *ACS National Meeting & Exposition*, Dallas, TX, United States, March 25-29, 2014.
20. Benzodithiophene Semiconducting Polymers for Bulk Heterojunction Solar Cells, Young Academic Investigators Symposia, *244th ACS National Meeting & Exposition*, Philadelphia, PA, United States, March 16-20, 2012.
21. Benzodithiophene Semiconducting Polymers for Organic Solar Cells, *243rd* *ACS National Meeting & Exposition*, San Diego, United States, March 25-29, 2012.
22. Semiconducting Polymers for Organics Solar Cells, *67th Southwest ACS Regional Meeting*, Austin, TX, United States, November 9-12, 2011.
23. Synthesis and Self-Assembly of Amphiphilic Aliphatic Polyesters, *242nd ACS National Meeting & Exposition*, Denver, CO, United States, August 28-September 1, 2011.
24. Semiconducting Liquid Crystalline Polymers, *242nd ACS National Meeting & Exposition*, Denver, CO, United States, August 28-September 1, 2011.
25. Semiconducting Polymers Containing Benzodithiophene with Phenylethynyl Substituents, *241th ACS National Meeting*, Anaheim, CA, United States, March 27-31, 2011.
26. Synthesis and Optoelectronic Properties of Semiconducting Polymers Containing Benzodithiophene with Phenylethynyl Substituents, *2010 MRS Meeting*, Boston, MA, United States, November 29-December 3, 2010.
27. Novel Semiconducting Polymers Containing Benzodithiophene with Phenylethynyl Substituents, *239th ACS National Meeting & Exposition*, San Francisco, CA, United States, March 27-31, 2010.
28. Poly(3-hexylthiophene)-CdSe Quantum Dot Bulk Heterojunction Solar Cells: The Influence of Functional End-Group of the Polymer, *239th ACS National Meeting & Exposition*, San Francisco, CA, United States, March 27-31, 2010.
29. Polythiophene-Quantum Dot Hybrid Nanomaterials for Bulk Heterojunction Solar Cells, *Fall MRS Meeting*, Boston, MA, United States, December 1-5, 2008.

**Grants/contracts awarded**:

1. Tunable Biocompatible and Biodegradable Thermoresponsive Polycaprolactones, NSF (CHE); 08/01/2016-07/31/2019; (co-PI: Michael C. Biewer), $435,000.
2. Active Neodymium Catalysts for Polymerization of Dienes and Vinyl Monomers, NSF (CHE), 08/01/2016-07/31/2019; $375,000.
3. Semiconducting Block Copolymers Capable of Actuated Changes of Opto-Electronic Properties, Welch Foundation, 06/01/2016-05/31/2019, $240,000.
4. MRI: Acquisition: High-Resolution and Ultra-High Speed X-Ray Diffractometer for Structure, Crystal Quality, and Preferred Orientation Determination, NSF (DMR), 09/01/2015-08/31/2017, $385,000 (from NSF) and $165,000 (cost share from UTD).
5. Tuning the Photovoltaic Performance of Benzodithiophene and Benzodifuran Polymeric Semiconductors by Molecular Design, NSF (DMR), 07/01/2015-06/30/2017, $239,996.
6. Nanoparticles Based on Histone Deacetylase Inhibitors for Combination Treatments, NIH R21, 05/01/2015-04/30/2017, subcontract with Nebraska Medical Center (co-PI: Dr. David Oupicky), $199,462 (subcontract amount).
7. Polythiophene Block Copolymers: A Systematic Investigation of Morphology-Optoelectronic Properties Dependence, Welch Foundation, 06/01/2013-05/31/2016, $180,000.
8. NSF-REU Supplement: Rational Design of Semiconducting Polymers with Tunable Opto-electronic Properties (DMR-0956116), 06/01/2013-09/01/2013, $6,000.
9. NSF-REU Supplement: Rational Design of Semiconducting Polymers with Tunable Opto-electronic Properties (DMR-0956116), 06/01/2012-09/01/2012, $6,500.
10. MRI: Acquisition of a 500 MHz Multinuclear NMR Spectrometer for Multidisciplinary Research at the University of Texas at Dallas, NSF (CHE), 10/01/2011-09/30/2014, $374,360 (from NSF) and $160,440 (cost share from UTD).
11. Semiconducting Liquid Crystalline Polymers, Welch Foundation, 06/01/2010-05/31/2013, $160,000.
12. Rational Design of Semiconducting Polymers with Tunable Opto-Electronic Properties: An Interdisciplinary Program for Research and Education, NSF (DMR), 03/01/2010-02/28/2015, $490,000.
13. Conjugated Polymer-Quantum Dot Networks for Hybrid Solar Cell Applications, Plextronics Inc., 01/01/2008-12/31/2008, $50,000.

**Teaching**:

**Doctoral supervision**:

**Former doctoral students:**

1. Mussie Alemseghed, Synthesis and Electronic Properties of Poly(3-hexylthiophene)-Based Semiconducting Polymers, graduated Fall 2009.

Previous Position: Postdoc Fellow at Iowa State University, 2009-2010, (Advisor: Dr. Javier Vela), Postdoc Fellow at Oak Ridge National Laboratory (ORNL)/University of Cincinnati, 2010-2013.

1. Nadia Hundt, Novel Thiophene Containing Semiconducting Polymers for Organic Electronics Applications, graduated Fall 2009.
2. Prakash Sista, Benzodithiophene Containing Semiconducting Polymers for Organic Electronics, graduated Fall 2011.

Previous position: Research Associate at University of Washington, 06/2012-01/2013, (Advisor: Dr. Christine Luscombe), Postdoc Fellow at Los Alamos National Laboratory, 02/2013-09/2014.

Current Position: Research Scientist at SABIC, 2014-present.

1. Hien Nguyen, Synthesis and Characterization of Pyrrole and Thiophene Semiconducting Polymers, graduated Fall 2012.

Current Position: Director of Academic Programs Graduate, Info Technology and MGT at University of Texas at Dallas

1. Jing Hao, Thermo-Responsive Functional Poly(caprolactones) for Drug Delivery Applications, graduated Fall 2012.

Previous position: Postdoc Fellow at University of Texas at Southwestern, (Advisor: Dr. Daniel Siegwart)

Current Position: Assistant Professor of Chemistry at George Fox University.

1. Mahesh Bhatt, Liquid Crystalline Semiconducting Polymers, graduated Fall 2013.

Previous position: Postdoc Fellow at Lawrence Berkeley National Laboratory, 06/2014-01/2017, (Advisor: Dr. Nitash P. Balsar).

Current Position: Research Scientist at C-Crete Technologies.

1. Ruvini Kularatne, Donor-Acceptor Semiconducting Polymers, graduated Fall 2014.

Previous Position: Postdoc Fellow at University of Texas at Dallas (UTD) Bioengineering, 01/2016-02/2017, (Advisor: Dr. Taylor Ware).

Current Position: R&D Chemist at Air Liquide Electronics.

1. Harsha Magurudeniya, Novel Catalysts for GRIM Polymerization, graduated Summer 2014.

Current Position: Postdoc Fellow at Los Alamos National Laboratory.

1. Elizabeth A. Rainbolt, Thermoresponsive Amphiphilic Diblock Copolymers, graduated Fall 2014.

Current Position: Senior Scientist at Pfizer.

1. Suchithra Senevirathne, Biodegradable Polymers Containing Histone Deacetylase Inhibitors, graduated Summer 2015.

Previous Position: Assistant Professor at Rajarata University, Sri Lanka.

1. Jia Du, Benzodithiophene Organic Semiconductors Organic Electronics, graduated Spring 2017.

Current Position: Research Scientist at Lionano.

1. Katherine E. Washington, Functionized Poly(caprolactone) Block Copolymers for Enhanced Delivery of Doxorubicin through Micellar Drug Carriers, graduated Summer 2017.

Current Position: Research Scientist at National Institute of Aerospace

1. Taniya Pathiranage, Polythiophene Liquid Crystalline Semiconducting Polymers, graduated Summer 2017.

Current Position: Postdoctoral Fellow at Carnegie Mellon University.

1. Ruvanthi Kularatne, Neodymium Catalyst for the Polymerization of Dienes, Polar Vinyl Monomers & Ring Opening Polymerization of Lactones, graduated Spring 2018.

Current Position: Postdoctoral Fellow at Retina Foundation of Southwest

1. Chandima Bulumulla, Department of Chemistry & Biochemistry, Non-Conventional Building Blocks for Organic Electronics, graduated Spring 2018.

Current Position: Postdoctoral Fellow at Retina Foundation of Southwest

**Current doctoral students:**

1. Vasanthy Karmegam, Department of Chemistry & Biochemistry, pH Responsive Polymers for Drug Delivery, expected Fall 2018.
2. Yixin Ren, Department of Chemistry & Biochemistry, Systematic Studies of Neodymium Catalysts bearing Phosphate Ligands for Ring Opening Polymerization of Cyclic Esters and Polymerization of Dienes, expected Fall 2018.
3. Ruwan Gunawardhana, Department of Chemistry & Biochemistry, Donor-Acceptor Semiconductors for Perovskite Solar Cells, expected Spring 2019.
4. Justin Miller, Department of Chemistry & Biochemistry, Novel Zinc Catalysts for the Ring Opening Polymerization of Cyclic Esters, expected Spring 2020.
5. Md Muktadir Talukder, Department of Chemistry & Biochemistry, Poly(alkylthiophene) based Block-Copolymers for Transistor Applications, expected Fall 2020.
6. Erika Calubaquib, Department of Chemistry & Biochemistry, Donor-Acceptor Molecules for Near Infrared Imaging, expected, Spring 2021.
7. Pooneh Soltantabar, Department of Bioengineering, Co-loading of Polyphenols and Doxorubicin in Polymeric Micelles, expected Spring 2021.
8. John Cue, Department of Chemistry & Biochemistry, Systematic Variation of Phosphate Ligands of Neodymium Polymerization Catalysts, expected Spring 2021.
9. Hanghang Wang, Department of Chemistry & Biochemistry, Aliphatic Polyesters for Drug Delivery Applications, expected Spring 2022.
10. Ziyuan Ma, Department of Chemistry & Biochemistry, Polymers for Organic Electronics, expected Spring 2023.
11. Abhi Bhadran, Department of Chemistry & Biochemistry, Aliphatic Polyesters for Drug Delivery, expected Spring 2023.

**Master student supervision**:

**Former masters students:**

Crystal Niermann, Three-Dimensional Printing of Polyisoprene-*block*-Polystyrene-*block*-Poly(3-hexylthiophene), graduated Spring 2017.

Current Position: Scientist at Adaptive 3D

**Current masters students:**

Ashton McCary, Department of Chemistry & Biochemistry, Organic Electronics, expected Spring 2020.

**Postdoctoral supervision**:

Kumaranand Palaniappan, 2007-2009.

**Undergraduate supervision** (out of a total of 85 students)

**Current students**:

1. Heejin Shin Chemistry Major
2. Svaksha Lyengar Biochemistry Major
3. Anna Fiedler Chemistry Major
4. Faraaz Azam Biology Major
5. Nabeel Karim Biochemistry Major
6. Estella Price Biochemistry Major
7. Adele Wallace Biochemistry Major
8. Sara Tran Neuroscience Major
9. Amina Aslam Biochemistry Major
10. Bryce Beckstrom Biochemistry Major
11. Alfonso Flores Biochemistry Major
12. Azan Ibrahim Neuroscience Major
13. Kevin Nguyen Biochemistry Major
14. Adam Timmerman Chemistry Major
15. William Schleicher Chemistry Major

**Classroom teaching**:

1. 2007 Fall CHEM 2325 Introductory Organic Chemistry II
2. 2008 Spring CHEM 4335 Polymer Chemistry
3. 2008 Fall CHEM 2325 Introductory Organic Chemistry II
4. 2009 Spring CHEM 4335 Polymer Chemistry
5. 2009 Spring MSEN 5340 Advanced Polymer Science and Engineering
6. 2009 Fall CHEM 2325 Introductory Organic Chemistry II
7. 2009 Fall CHEM 5331 Advanced Organic Chemistry
8. 2010 Spring CHEM 4335 Polymer Chemistry
9. 2010 Fall CHEM 2325 Introductory Organic Chemistry II
10. 2011 Spring CHEM 5340 Advanced Polymer Science and Engineering
11. 2011 Spring CHEM 4335 Polymer Chemistry
12. 2012 Spring CHEM 4335 Polymer Chemistry
13. 2012 Spring CHEM 6v39 Organic Electronics (Special Topics in Organic Chemistry)
14. 2012 Fall CHEM 2325 Introductory Organic Chemistry II
15. 2013 Spring CHEM 5340 Advanced Polymer Science and Engineering
16. 2013 Fall CHEM 2323 Introductory Organic Chemistry I
17. 2013 Fall BMEN 3310 Fluid Mechanics and Transport Processes in Biomedical Engineering
18. 2014 Spring CHEM 2325 Introductory Organic Chemistry II
19. 2015 Spring CHEM 2325 Introductory Organic Chemistry II
20. 2015 Spring CHEM 5340 Advanced Polymer Science and Engineering
21. 2015 Fall NATS 1101 Natural Science and Mathematics Freshman Seminar
22. 2016 Spring CHEM 2325 Introductory Organic Chemistry II
23. 2016 Fall CHEM 2323 Introductory Organic Chemistry I
24. 2016 Fall HONS 3199 Untold Secrets of Chemistry and Physics (Collegium V Honors Reading)
25. 2017 Spring CHEM 2325 Introductory Organic Chemistry II
26. 2017 Spring CHEM 2324 Introductory Organic Chemistry for Engineers
27. 2017 Fall HONS 3199 Untold Secrets of Chemistry and Physics (Collegium V Honors Reading)
28. 2018 Spring CHEM 6V39 Special Topics in Organic Chemistry (Polymer Chemistry)
29. 2018 Fall CHEM 2323 Introductory Organic Chemistry I
30. 2018 Fall HONS 3199 Science Plays: From Michael Frayn’s *Copenhagen* to Alan

Alda’s *Radiance: The Passion of Marie Curie*

**Service**:

1. 2018-present: Member of the Chemical Engineering Program Development Committee, UT Dallas
2. 2018-present: Member of the Program Review Committee, UT Dallas
3. 2018-present: Member of the University’s Research Integrity Committee, UT Dallas
4. 2018: Chair of the Ad Hoc Committee for Granting Tenure and Promotion to Rank of Associate Professor for one faculty in the Department of Chemistry and Biochemistry, UT Dallas
5. 2018: Member of Ad Hoc Committee for Mid-Probationary Review for one faculty in the Department of Bioengineering, UT Dallas
6. 2017: Member of Ad Hoc Committee for Mid-Probationary Review for one faculty in the Department of Bioengineering, UT Dallas
7. Chair of Ad Hoc Committee for Mid-Probationary Review for one faculty in the Department of Bioengineering, UT Dallas
8. 2016: Organizer for the “Functional Polymers” Symposium, 2016 SWRM Regional Meeting, Galveston, TX, November 10-13, 2016
9. 2016: Organizer for the “Texas Soft Matter Meeting”, University of Texas at Dallas, 08/12/2016
10. 2016-present: Member of the AES Advisory Committee, UT Dallas
11. 2016-present: Member of the President’s Teaching Excellence Award Committee, UT Dallas
12. 2016-present: Member of the Provost Award’s for Excellence in Undergraduate Mentoring Committee, UT Dallas
13. 2016: Organizer for the “Polymer-Related Energy Conversion & Storage” symposium, 251st ACS National Meeting & Exposition, San Diego, CA, March 13-17, 2016
14. 2014: Organizer for the “Synthesis and Applications of Conjugated Materials: Contributions from Texas and Beyond” symposium, 247th ACS National Meeting & Exposition, Dallas, TX, United States, March 16-20, 2014
15. 2013-2015: Member of the Editorial Advisory Board for Macromolecules and ACS Macro Letters
16. 2013-2014: Chair of the DFW-ACS Awards Committee
17. 2011-2015: Member of the DFW-ACS Awards Committee
18. 2011-present: Graduate Advisor, Department of Chemistry, UT Dallas
19. 2011: Member of the Search Committee for the Dean of the School of Natural Sciences and Mathematics
20. 2011: Member of the Search Committee for an Assistant professor in Polymers/Materials Science
21. 2008-2011: Seminar Program Coordinator, Department of Chemistry, UT Dallas (30 invited speakers)

**Reviewing**:

Reviewer for NSF, PRF, and DOE.

Journal of Materials Chemistry A, B, and C Macromolecular Rapid Communications

Journal of the American Chemical Society Journal of Polymer Science Part A

Macromolecular Chemistry and Physics Advanced Functional Materials

Chemical Communications Journal of Physical Chemistry

European Polymer Journal Molecular Pharmaceutics

Biomacromolecules Chemistry of Materials

Organic Electronics Advanced Materials

Chemical Science Polymer Chemistry

Macromolecules Organic Letters

ACS Nano Soft Matter

Langmuir