**Mihaela C**. **Stefan**

Eugene McDermott Professor

Department of Chemistry and Biochemistry

The University of Texas at Dallas

**Current Address**:

Department of Chemistry and Biochemistry

University of Texas at Dallas

800 West Campbell Road, MS BE 26

Richardson, TX 75080-3021

Phone: (972)-883-6581

Fax: (972)-883-2925

E-mail: mihaela@utdallas.edu

Web page: www.utdallas.edu/~mci071000/

**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**:

Associate Dean of Graduate Studies, School of Natural Sciences & Mathematics, University of Texas at Dallas, 01/01/2019-present

Eugene McDermott Professor, 05/01/2018-09/01/2029, University of Texas at Dallas, Department of Bioengineering, 800 West Campbell Road, Richardson, TX, 75080

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. McCullough,

Postdoctoral 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

American Association for the Advancement of Science, 2019-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. Wang, Hanghang; Cue, John M. O.; Calubaquib, Erika L.; Kularatne, Ruvanthi N.; Taslimy, Somayeh; Miller, Justin T.; **Stefan, Mihaela C**. Neodymium Catalysts for Polymerization of Dienes, Vinyl Monomers, and ε-Caprolactone. *Journal of Materials Chemistry A,* February **2021**.
2. Soltantabar, Pooneh; Calubaquib, Erika L.; Mostafavi, Ebrahim; Ghazavi, Atefeh; **Stefan,** **Mihaela C**. Hear/Liver-on-a-chip as a model for the evaluation of cardiotoxicity induced by chemotherapies. *Organ on a Chip*, under review, Fberuary 2021
3. Gamage, Prabhath L.; Gunawardhana, Ruwan; Bulumulla, Chandima; Kularatne, Ruvanthi N.; Udamulle, Chinthaka M.; Ma, Ziyuan; Biewer, Michael C.; **Stefan, Mihaela C.** An Ester Functionalized Wide Bandgap Polythiophene for Organic Field-Effect Transistors, *Synthetic Metals*, under review, February 2021.
4. Gamage, Prabhath L.; Udamulle, Chinthaka M.; Gunawardhana, Ruwan; Bulumulla, Chandima; Ma Ziyuan; Biewer, Michael C.; **Stefan Mihaela C.** Effect of Furan Spacer in Thieno[3,2‑b]pyrrole and Diketopyrrolopyrrole Based Copolymers for Thin-Film Transistors, *Organic Electronics*, under review, March 2021

**Articles in refereed journals**:

**Independent contributions**:

1. Talukder, Md M.; Miller, Justin T.; Cue, John M. O.; Udamulle, Chinthaka M., Bhadran, Abhi; Biewer, Michael C.; **Stefan, Mihaela C**. Mono- and Dinuclear α-Diimine Nickel(II) and Palladium(II) Complexes in C–S Cross-Coupling. *Organometallics* **2021**, 40, 1, 83–94. DOI: 10.1021/acs.organomet.0c00732.
2. Adhikari, Santosh; Ren, Yi Xin; **Stefan, Mihaela C.**; Nelson, Toby L. Facile C–H iodination of electron deficient benzodithiophene-S,S-tetraoxide for the development of n-type polymers, *Polymer Chemistry* **2020**, *11*, 7421-7428.DOI: 10.1039/D0PY01292K.
3. Talukder, Md M.; Cue, John M. O.; Miller, Justin T.; Gamage, Prabhath L.; Aslam, Amina; McCandless, Gregory T.; Biewer, Michael C.; **Stefan, Mihaela C**. Ligand Steric Effects of α-Diimine Nickel (II) and Palladium (II) Complexes in the Suzuki–Miyaura Cross-Coupling Reaction. *ACS omega* **2020**, *5*(37), 24018-24032. DOI: 10.1021/acsomega.0c03415.
4. Miller, Justin T.; Ren, Yixin; Li, Sheng; Tan, Kui; McCandless, Gregory; Jacob, Cchristine; Wu, Zheng; Chu, Ching-Wu; Lv, Bing; Biewer, Michael C.; **Stefan, Mihaela C**. Peroxide-Templated Assembly of a Trimetal Neodymium Complex Single-Molecule Magnet. *Inorganic Chemistry* **2020**, *59*(15), 10379-10383. DOI:10.1021/acs.inorgchem.0c00234
5. Kularatne, Ruvanthi N.; Bulumulla, Chandima; Catchpole, Timothy; Takacs, Alison; Christie, Abigail; **Stefan, Mihaela C.**; Csaky, Karl G. Protection of human retinal pigment epithelial cells from oxidative damage using cysteine prodrugs. *Free Radical Biology and Medicine* **2020**, *152*, 386-394. DOI: 10.1016/j.freeradbiomed.2020.03.024.
6. Bulumulla, Chandima; Gunawardhana, Ruwan; Gamage, Prabhath L.; Miller, Justin T.; Kularatne, Ruvanthi N.; Biewer, Michael C.; **Stefan, Mihaela C.** Pyrrole-Containing Semiconducting Materials: Synthesis and Applications in Organic Photovoltaics and Organic Field-Effect Transistors. *ACS Applied Materials & Interfaces* **2020**, *12*(29), 32209-32232. DOI: 10.1021/acsami.0c07161.
7. Bulumulla, Chandima; Kularatne, Ruvanthi N.; Catchpole, Timothy; Takacs, Alison; Christie, Abigail; Gilfoyle, Alexa; Nguyen, Timothy D.; **Stefan, Mihaela C.**; Csaky, Karl G. Investigating the Effect of Esterification on Retinal Pigment Epithelial Uptake Using Rhodamine B Derivatives. *Translational Vision Science & Technology* **2020**, *9*(6), 1-9. DOI: 10.1167/tvst.9.6.18.
8. Soltbantabar, Pooneh; Calubaquib, Erika L.; Mostafavi, Ebrahim; Biewer, Michael C.; **Stefan, Mihaela C**. Enhancement of loading efficiency by co-loading of doxorubicin and quercetin in thermoresponsive polymeric micelles. *Biomacromolecules* **2020**. DOI: 10.1021/acs.biomac.9b01742.
9. Gunawardhana, Ruwan; Bulumulla, Chandima; Gamage, Prabhath L.; Timmerman, Adam J.; Udumulle, Chinthaka M.; Biewer, Michael C.; **Stefan, Mihaela C.** Thieno[3,2-*b*]pyrrole and benzo[*c*][1,2,5] thiadiazole donor-acceptor semiconductors for organic field-effect transistors (OFETs). *ACS Omega* **2019**, *4(22)*, 19676-19682. DOI: 10.1021/acsomega.9b02274.
10. Washington, Katherine E.; Du, Jia; Kularatne, Ruvanthi N.; Calubaquib, Erika L.; Soltantabar, Pooneh; Biewer, Michael C.; **Stefan, Mihaela C.** Diketopyrrolopyrrole and benzodithiophene based near infrared-emitting small molecule for imaging applications. *Synthetic Metals* **2019**, *257*, 116123. DOI: 10.1016/j.synthmet.2019.116123.
11. Gamage, Prabhath L.; Ren, Yixin; Slape, Coreen M.; Ambike, Iravati M.; Wallace, Adele C.; Fiedler, Anna K.; González, Juan E.; Biewer, Michael C.; Zimmern, Philippe; **Stefan, Mihaela C.** Oxidative Degradation of Polypropylene Mesh in *E. coli* Environment. *ACS Applied BioMaterials* **2019**, *2(9)*, 4027-4036. DOI: 10.1021/acsabm.9b00547.
12. Ramírez-Aparicio, J.; Pathiranage, Taniya M. S. K.; Nguyen, Hien Q.; **Stefan, Mihaela C.**; Samaniego-Benítez, J. Enrique; Salinas-Bravo, V. M.; Ramírez-Bon, R. Synthesis of P3HT base semiconducting hybrid films and their photocatalytic properties. *Journal of Coatings Technology and Research* **2019**, *16(4)*, 1065-1075. DOI: 10.1007/s11998-018-00181-3.
13. Dissanayake, Dushanthi S.; Gunathilake, Samodha S.; Udamulle Gedara, Chinthaka M.; Du, Jia; Yoo, Sang Ha; Lee, Youngmin; Wang, Qing; Gomez, Enrique D.; Biewer, Michael C.; **Stefan, Mihaela C.** Conductive Triethylene Glycol Monomethyl Ether Substituted Polythiophenes with High Stability in the Doped State. *Journal of Polymer Science Part A: Polymer Chemistry* **2019**, *57*, 1079-1086. DOI: 10.1002/pola.29362.
14. Ren, Yixin; Miller, Justin T.; Polderman, Stephanie T.; Vo Trinh D.; Wallace, Adele C. M.; Cue, John Michael O.; Tran, Sarah T.; Biewer, Michael C.; **Stefan, Mihaela C.** Halide-free neodymium phosphate based catalyst for highly *cis*-1,4 selective polymerization of dienes. *RCS Advances* **2019**, *9*,3345-3350. DOI: 10.1039/C8RA10050K.
15. Saed, Mohand O.; Ambulo, Cedric P.; Kim, Hyun; De, Rohit; Raval, Vyom; Searles, Kyle; Siddiqui, Danyal A.; Cue, John Michael O.; **Stefan, Mihaela C.**; Shankar, M. Ravi; Ware, Taylor H. Molecularly Engineered, 4D-Printed Liquid Crystal Elastomer Actuators. *Advanced Functional Materials* **2019**, *29*,1806412. DOI:10.1002/adfm.201806412.
16. 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**, *29*(19), 2567-2571. DOI: 10.1055/S-0037-1611055.
17. 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.
18. Karmegam, Vasanthy; Udamulle Gedara, Chinthaka M.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Synthesis and opto-electronic properties of functionalized pyrimidine-based conjugated polymers. *Journal of Polymer Science, Part A: Polymer Chemistry* **2018**, *56*, 2547-2553. DOI: 10.1002/pola.29234.
19. 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(6)*, 629-634. DOI: 10.1021/acsmacrolett.8b00236.
20. 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. DOI: 10.3390/jfb9020029.
21. 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: 10.1002/pola.29010.
22. 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(14)*, 11818-11825. DOI: 10.1021/acsami.8b01113.
23. 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.
24. 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(3)*, 997-1004. DOI: 10.1021/acsbiomaterials.7b00972.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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).
46. 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.
47. 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.
48. 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).
49. 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).
50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. 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.
56. 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).
57. Li, Yuanchao; Nese, Alper; Hu, Xiangqian; Lebedeva, Natalia V.; LaJoie, Travis W.; Burdynska, Joanna; **Stefan**, **Mihaela C**.; You, Wei; Yang, Weitao; Matyjaszewski, Krzysztof; Sheiko, Sergei S. Shifting Electronic Structure by Inherent Tension in Molecular Bottlebrushes with Polythiophene Backbones. *ACS Macro Letters* **2014**, *3*, 738-742. DOI:10.1021/mz5003323.
58. Magurudeniya, Harsha D.; Kularatne, Ruvini S.; Rainbolt, Elizabeth A.; Bhatt, Mahesh P.; Murphy, John W.; Sheina, Elena E.; Gnade, Bruce E.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Benzodithiophene Homopolymers Synthesized by Grignard Metathesis (GRIM) and Stille Coupling Polymerizations. *Journal of Materials Chemistry A* **2014**, *2*, 8773-8781. DOI: 10.1039/c4ta01739k.
59. Bhatt, Mahesh P.; Magurudeniya, Harsha D.; Rainbolt, Elizabeth A.; Huang, Peishen; Dissanayake, Dushanthi S.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Poly(3-hexylthiophene) Nanostructured Materials for Organic Electronics Applications. *Journal of Nanoscience and Nanotechnology* **2014**, *14*, 1-18. DOI: [10.1166/jnn.2014.8892](http://dx.doi.org/10.1166/jnn.2014.8892).
60. Kularatne, Ruvini S.; Taenzler, Ferdinand J.; Magurudeniya, Harsha D.; Du, Jia; Murphy, John W.; Sheina, Elena E.; Gnade, Bruce E.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Structural Variation of Donor-Acceptor Copolymer Containing Benzodithiophene with Bithienyl Substituents to Achieve High Open Circuit Voltage in Bulk Heterojunction Solar Cells. *Journal of Materials Chemistry A* **2013**, *1*, 15535-15543. DOI: 10.1039/C3TA13686H
61. 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.
62. 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.
63. Bhatt, Mahesh P.; Magurudeniya, Harsha D.; Sista, Prakash; Sheina, Elena E.; Jeffries-EL, Malika; Janesko, Benjamin G.; McCullough, Richard D.; **Stefan**, **Mihaela C**. Role of the Transition Metal in Grignard Metathesis Polymerization (GRIM) of 3-Hexylthiophene. *Journal of Materials Chemistry A* **2013**, *1*, 12841-12849. DOI: 10.1039/C3TA13258G.
64. Zhao, Lei; Feng, Chaowei; Pang, Xinchang; Jung, Jaehan; **Stefan**, **Mihaela C**.; Sista, Prakash; Han, Rui; Fang, Ning; Lin, Zhiqun Self-Assembly of a Conjugated Triblock Copolymer at the Air–Water Interface. *Soft Matter* **2013**, *9*,8050-8056.DOI:10.1039/C3SM51488A.
65. Hao, Jing; Cheng, Yixing; Ranatunga, Udayana R. J. K.; Senevirathne, Suchithra A.; Biewer, Michael C.; Nielsen, Steven O.; Wang, Qian; **Stefan**, **Mihaela C**. A Combined Experimental and Computational Study of the Substituent Effect on Micellar Behavior of γ-Substituted Thermoresponsive Amphiphilic Poly(ε-caprolactone)s. *Macromolecules* **2013**, *46*,4829-4838.DOI: 10.1021/ma400855z.
66. Gunathilake, Samodha S.; Magurudeniya, Harsha D.; Huang, Peishen; Nguyen, Hien Q.; Rainbolt, Elizabeth A.; **Stefan**, **Mihaela C**.; Biewer, Michael C. Synthesis and Characterization of Novel Semiconducting Polymers Containing Pyrimidine. *Polymer Chemistry* **2013**, *4*, 5216-5219. DOI: 10.1039/C3PY00137G.
67. Sista, Prakash; Wilson, Mitchell; Holmes, Natalie; Kularatne, Ruvini S.; Rainbolt, Elizabeth A.; Biewer, Michael C.; Dastoor, Paul C.; Belcher, Warwick; **Stefan**, **Mihaela C**. Non-Dependence of Polymer to PCBM Weight Ratio on the Performance of Bulk Heterojunction Solar Cells with Benzodithiophene Donor Polymer. *Science of Advanced Materials* **2013**, *5*, 512-518. DOI: 10.1166/sam.2013.1482.
68. Hao, Jing; Rainbolt, Elizabeth A.; Washington, Katherine E.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Synthesis of Functionalized Poly(caprolactone)s and Their Application as Micellar Drug Delivery Systems. *Current Organic Chemistry* **2013**, *17*, 930-942. DOI: 10.2174/1385272811317090007.
69. Sista,Prakash; Kularatne, Ruvini S.; Mulholland,Michael E.; Wilson,Mitchell; Holmes, Natalie; Zhou,Xiaojing; Dastoor,Paul C.; Belcher,Warwick; Rasmussen,Seth C.; Biewer,Michael C.; **Stefan**, **Mihaela C**. Synthesis and Photovoltaic Performance of Donor-Acceptor Polymers Containing Benzo[1,2-*b*:4,5-*b'*]dithiophene with Thienyl Substituents. *Journal of Polymer Science* *Part A*: *Polymer Chemistry* **2013**, *51*, 2622-2630. DOI: 10.1002/pola.26650.
70. Elkassih, Sussana A.; Sista, Prakash; Magurudeniya, Harsha D.; Papadimitratos, Alexios; Zakhidov, Anvar A.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Phenothiazine Semiconducting Polymers for Light-Emitting Diodes. *Macromolecular Chemistry and Physics* **2012***, 214*, 572-577. DOI: 10.1002/macp.201200642.
71. Kularatne, Ruvini S.; Magurudenyia, Harsha D.; Sista, Prakash; Biewer, Michael C.; **Stefan**, **Mihaela C**. Donor-Acceptor Semiconducting Polymers for Organic Solar Cells. *Journal of Polymer Science* *Part A*: *Polymer Chemistry* **2013**, *51*, 743-768. DOI: 10.1002/pola.26425.
72. Nguyen, Hien Q.; Bhatt, Mahesh P.; Rainbolt, Elizabeth A.; **Stefan**, **Mihaela C**. Synthesis and Characterization of Polyisoprene-*b*-Polystyrene-*b*-Poly(3-Hexylthiophene) Triblock Copolymer. *Polymer Chemistry* **2013**, *4*, 462-465. DOI: 10.1039/C2PY21009F. (5 Citations Scifinder, 8 Citations Google Scholar)
73. Kularatne, Ruvini S.; Sista, Prakash; Nguyen, Hien Q.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Donor-Acceptor Semiconducting Polymers Containing Benzodithiophene with Bithienyl Substituents. *Macromolecules* **2012**, *45*, 7855-7862.DOI: 10.1021/ma301624t
74. Bhatt, Mahesh P.; Sista, Prakash; Hao, Jing; Hundt, Nadia; Biewer, Michael C.; **Stefan**, **Mihaela C**. Electronic Properties-Morphology Correlation of a Rod-Rod Semiconducting Liquid Crystalline Block Copolymer Containing Poly(3-hexylthiophene). *Langmuir* **2012**,*28*, 12762-12770. DOI: 10.1021/la301731w.
75. Sista, Prakash; Huang, Peishen; Gunathilake, Samodha S.; Bhatt, Mahesh P.; Kularatne, Ruvini S.; **Stefan**, **Mihaela C**.; Biewer, Michael C. Synthesis and Optoelectronic Properties of Novel Benzodifuran Semiconducting Polymers. *Journal of Polymer Science* *Part A*: *Polymer Chemistry* **2012**, *50*, 4316-4324. DOI: 10.1002/pola.26243.
76. Hao, Jing; Granowski, Patricia; **Stefan**, **Mihaela C**. Zinc Undecylenate Catalyst for the Ring-Opening Polymerization of Caprolactone Monomers. *Macromolecular Rapid Communications* **2012**, *33*, 1294-1299. DOI: 10.1002/marc.201200147.
77. Cheng, Yixing; Hao, Jing; Lee, Lee A.; Biewer, Michael C.; Wang, Qian; **Stefan**, **Mihaela C**. Thermally-Controlled Release of Anti-Cancer Drug from Self-Assembled γ-Substituted Amphiphilic Poly(ε-caprolactone) Micellar Nanoparticles. *Biomacromolecules* **2012**, *13*, 2163-2173. DOI: 10.1021/bm300823y.
78. Bhatt, Mahesh P.; Huynh, Martin K.; Sista, Prakash; Nguyen, Hien Q.; **Stefan**, **Mihaela C**. Synthesis, Reactivity, and Optoelectronic properties of Poly(3-alkenylthiophene) Diblock Copolymers. *Journal of Polymer Science* *Part A*: *Polymer Chemistry* **2012**, *50*, 3086-3094. DOI: 10.1002/pola.26095.
79. Sista, Prakash; Xue, Bofei;Wilson, Mitchell; Holmes, Natallie;Kularatne, Ruvini S.; Nguyen, Hien Q.;Dastoor, Paul C.; Belcher, Warwick;Poole, Katelyn; Janesko, Benjamin G.;Biewer, Michael C.;**Stefan**, **Mihaela C**. Influence of the Alkyl Substituents Spacing on the Solar Cell Performance of Benzodithiophene Semiconducting Polymers. *Macromolecules* **2012**, *45*, 772-780. DOI: 10.1021/ma202497v.
80. Nguyen, Hien Q.; Rainbolt, Elizabeth A.; Sista, Prakash; **Stefan**, **Mihaela C**. Synthesis and Polymerization of Fused-Ring Thienodipyrrole Monomers. *Macromolecular Chemistry and Physics* **2012**, *213*, 425-430. DOI: 10.1002/macp.201100608.
81. **Stefan**, **Mihaela C**.; Bhatt, Mahesh P.; Sista, Prakash; Magurudeniya, Harsha D. Grignard Metathesis (GRIM) Polymerization for the Synthesis of Conjugated Block Copolymers Containing Regioregular Poly(3-hexylthiophene). *Polymer Chemistry* **2012**, *3*, 1693-1701. DOI: 10.1039/C1PY00453K.
82. Sista, Prakash; Biewer, Michael C.; **Stefan**, **Mihaela C**. Benzo[1,2-*b*:4,5-*b*’]dithiophene Building Block for the Synthesis of Semiconducting Polymers. *Macromolecular Rapid Communications* **2012**, *33*, 9-20. DOI: 10.1002/marc.201100671.
83. Magurudenyia, Harsha D.; Sista, Prakash; Westbrook, Jacob K.; Ourso, Taryn E.; Nguyen, Khuong; Maher, Marie C.; Alemseghed, Mussie G.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Nickel(II) α-Diimine Catalyst for Grignard Metathesis (GRIM) Polymerization. *Macromolecular Rapid Communications* **2011**, *32*, 1748-1752. DOI: 10.1002/marc.201100433.
84. Sista, Prakash; Hao, Jing; Elkassih, Sussana; Sheina, Elena E.; Biewer, Michael C.; Janesko, Benjamin G.; **Stefan**, **Mihaela C**. Synthesis Characterization, and Computational Modeling of Benzodithiophene Donor-Acceptor Semiconducting Polymers.*Journal of Polymer Science* *Part A*: *Polymer Chemistry* **2011**, *49*, 4172-4179. DOI: 10.1002/pola.24859.
85. Sista, Prakash; Bhatt, Mahesh P.; McCarry, Ashton R.; Nguyen, Hien Q.; Hao, Jing; Biewer, Michael C.; **Stefan**, **Mihaela C**. Enhancement of OFET Performance of Semiconducting Polymers Containing Benzodithiophene Upon Surface Treatment with Organic Silanes. *Journal of Polymer Science* *Part A*: *Polymer Chemistry* **2011**, *49*, 2292-2302. DOI: 10.1002/pola.24663.
86. Palaniappan, Kumaranand; Hundt, Nadia; Sista, Prakash; Nguyen, Hien; Hao, Jing; Bhatt, Mahesh; Han, Yun-Yue; Schmiedel, Elizabeth A.; Sheina, Elena E.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Block Copolymer Containing Poly(3-hexylthiophene) and Poly(4-vinylpyridine): Synthesis and Its Interaction with CdSe Quantum Dots for Hybrid Organic Applications. *Journal of Polymer Science* *Part A*: *Polymer Chemistry* **2011**, *49*, 1802-1808. DOI: 10.1002/pola.24605.
87. Hundt, Nadia; Hoang, Quan; Nguyen, Hien Q.; Sista, Prakash; Hao, Jing; Servello, John; Palaniappan, Kumaranand; Alemseghed, Mussie; Biewer, Michael C.; **Stefan**, **Mihaela C**. Synthesis and Characterization of a Block Copolymer Containing Regioregular Poly(3-hexylthiophene) and Poly(γ-benzyl-L-glutamate). *Macromolecular Rapid Communications* **2011**, *32*, 11-16. DOI: 10.1002/marc.201000502.
88. Hao, Jing; Servello, John; Sista, Prakash; Biewer, Michael C.; **Stefan**, **Mihaela C**. Temperature Sensitive Aliphatic Polyesters: Synthesis and Characterization of γ-Substituted Caprolactone Monomers and Polymers. *Journal of Materials Chemistry* **2011**, *21*, 10623-10628. DOI: 10.1039/C1JM11288K.
89. Sista, Prakash; Nguyen, Hien Q.; Murphy, John W.; Hao, Jing; Dei, Daniel K.; Palaniappan, Kumaranand; Servello, John; Kularatne, Ruvini S.; Gnade, Bruce E.; Xue, Bofei; Dastoor, Paul C.; Biewer, Michael C.; **Stefan**, **Mihaela C**. Synthesis and Electronic Properties of Semiconducting Polymers Containing Benzodithiophene with Alkyl Phenylethynyl Substituents. *Macromolecules* **2010**, *43*, 8063-8070. DOI: 10.1021/ma101709h.
90. Hundt, Nadia; Palaniappan, Kumaranand; Sista, Prakash; Murphy, John W.; Hao, Jing; Nguyen, Hien; Stein, Eugene; Biewer, Michael C.; Gnade, Bruce E.; **Stefan**, **Mihaela C**. Synthesis and Characterization of Polythiophenes with Alkenyl Substituents. *Polymer Chemistry* **2010**, *1*, 1624-1632. DOI: 10.1039/C0PY00176G.
91. Alemseghed, Mussie G.; Servello, John; Hundt, Nadia; Sista, Prakash; Biewer, Michael C.; **Stefan**, **Mihaela C**. Amphiphilic Block Copolymers Containing Regioregular Poly(3-hexylthiophene) and Poly(2-ethyl-2-oxazoline). *Macromolecular Chemistry and Physics* **2010**, *211*, 1291-1297. DOI: 10.1002/macp.200900725.
92. Alemseghed, Mussie G.; Gowrisanker, Srinivas; Servello, John; **Stefan**, **Mihaela C**. Synthesis of Di-block Copolymers Containing Regioregular Poly(3-hexylthiophene) and Poly(tetrahydrofuran) by a Combination of Grignard Metathesis and Cationic Polymerization. *Macromolecular Chemistry and Physics* **2009**, *210*, 2007-2014. DOI: 10.1002/macp.200900262.
93. Hundt, Nadia; Palaniappan, Kumaranand; Servello, John; Dei, Daniel K.; **Stefan**, **Mihaela C**.; Biewer, Michael C. Polymers Containing Rigid Benzodithiophene Repeating Unit with Extended Electron Delocalization. *Organic Letters* **2009**, *11*, 4422-4425. DOI: 10.1021/ol901786z.
94. Palaniappan, Kumaranand; Murphy, John W.; Khanam, Nadia; Horvath, Julius; Alshareef, Husam; Quevedo-Lopez, Manuel; Biewer, Michael C.; Park, Seong Y.; Kim, Moon J.; Gnade, Bruce E.; **Stefan**, **Mihaela C**. Poly(3-hexylthiophene)-CdSe Quantum Dot Bulk Heterojunction Solar Cells: Influence of the Functional End-Group of the Polymer. *Macromolecules* **2009**, *42*, 3845-3848. DOI: 10.1021/ma9006285.
95. Craley, Rockford C.; Zhang, Rui; Kowalewski, Tomasz; McCullough, Richard D.; **Stefan**, **Mihaela C**. Regioregular Poly(3-hexylthiophene) in a Novel Conducting Amphiphilic Block Copolymer. *Macromolecular Rapid Communications* **2009**, *30*, 11-16. DOI: 10.1002/marc.200800487.
96. **Stefan**, **Mihaela C**.; Javier, Anna E.; Osaka, Itaru; McCullough, Richard D. Grignard Metathesis Method (GRIM): Toward a Universal Method for the Synthesis of Conjugated Polymers. *Macromolecules* **2009**, *42,* 30-32. DOI: 10.1021/ma8020823.

**Publications prior to joining University of Texas at Dallas:**

1. **Iovu**, **Mihaela C**.; Zhang, Rui; Cooper, Jessica R.; Smilgies, Detlef M.; Javier, Anna E.; Sheina, Elena E.; Kowalewski, Tomasz; McCullough, Richard D. Conducting Block Copolymers of Regioregular Poly(3-hexylthiophene) and Poly(methacrylates): Electronic Materials with Variable Conductivities and Degrees of Interfibrillar Order. *Macromolecular Rapid Communications* **2007**, *28*, 1816-1824. DOI: 10.1002/marc.200700401.
2. **Iovu**, **Mihaela C**.; Craley, Rockford C.; Jeffries-EL, Malika; Krankowski, Ashley B.; Zhang, Rui; Kowalewski, Tomasz; McCullough, Richard D. Conducting Regioregular Polythiophene Block Copolymer Nanofibrils Synthesized by Reversible Addition Fragmentation Chain Transfer Polymerization (RAFT) and Nitroxide Mediated Polymerization (NMP). *Macromolecules* **2007**, *40*, 4733-4735. DOI: 10.1021/ma070406x. \
3. Li, Bo; Santhanam, Suresh; Schultz, Lawrence; Jeffries-EL, Malika; **Iovu**, **Mihaela C**.; Sauvé, Genevieve; Cooper, Jessica; Zhang, Rui; Revelli, Joseph C.; Kusne, Aaron G.; Snyder, Jay L.; Kowalewski, Tomasz; Weiss, Lee E.; McCullough, Richard D.; Fedder, Gary K.; Lambeth, David N. Inkjet Printed Chemical Sensor Array Based on Polythiophene Conductive Polymers. *Sensors and Actuators B*: *Chemical* **2007**, *123*, 651-660. DOI: 10.1016/j.snb.2006.09.064
4. Li, Bo; Sauvé, Genevieve; **Iovu**, **Mihaela C**.; Jeffries-EL, Malika; Zhang, Rui; Cooper, Jessica; Santhanam, Suresh; Schultz, Lawrence; Revelli, Joseph C.; Kusne, Aaron G.; Kowalewski, Tomasz; Snyder, Jay L.; Weiss, Lee E.; Fedder, Gary K.; McCullough, Richard D.; Lambeth, David N. Volatile Organic Compound Detection Using Nanostructured Copolymers.*Nano Letters* **2006**, *6*,1598-1602. DOI: 10.1021/nl060498o.
5. Zhang, Rui; Li, Bo; **Iovu**, **Mihaela C**.; Jeffries-EL, Malika; Sauvé, Genevieve; Cooper, Jessica; Jia, Shijun; Tristram-Nagle, Stephanie; Smilgies, Detlef M.; Lambeth, David N.; McCullough, Richard D.; Kowalewski, Tomasz Nanostructure Dependence of Field-Effect Mobility in Regioregular Poly(3-hexylthiophene) Thin Film Field Effect Transistors. *Journal of the American Chemical Society* **2006**, *128*, 3480-3481. DOI: 10.1021/ja055192i.
6. **Iovu**, **Mihaela C**.; Jeffries-El, Malika; Zhang, Rui; Kowalewski, Tomasz; McCullough, Richard D. Conducting Block Copolymer Nanowires Containing Regioregular Poly(3-hexylthiophene) and Polystyrene.*Journal of Macromolecular Science, Part A: Pure and Applied Chemistry* **2006**, *43*, 1991-2000. DOI: 10.1080/10601320600997906.
7. McCullough, Richard D.; Sauve, Genevieve; Li, Bo; Jeffries-El, Malika; Santhanam, Suresh; Schultz, Lawrence; Zhang, Rui; **Iovu**, **Mihaela C**.; Cooper, Jessica; Sreedharan, Prathapan; Revelli, Joseph C.; Kusner, Aaron G.; Kowalewski, Tomasz; Snyder, Jay L.; Weiss, Lee E.; Lambeth, David N.; Fedder, Gary K. Regioregular Polythiophene Nanowires and Sensors.*Proceedings of SPIE-The International Society for Optical Engineering* **2005**, *5940*, 594005/1-594005/7. DOI: 10.1117/12.619609.
8. Li, Bo; Santhanam, Suresh; Schultz, Lawrence; Jeffries-EL, Malika; **Iovu**, **Mihaela C**.; Sauve, Genevieve; Cooper, Jessica; Zhang, Rui; Revelli, Joseph C.; Kusne, Aaron G.; Kowalewski, Tomasz; Weiss, Lee E.; McCullough, Richard D.; Fedder, Gary K.; Lambeth, David N. Volatile Organic Compound Discrimination using Nanostructured Polythiophene Sensors.*IEEE Sensors* **2005***,**1,*191-194. DOI: 10.1109/ICSENS.2005.1597668.
9. **Iovu**, **Mihaela C**.; Sheina, Elena E.; Gil, Roberto R.; McCullough, Richard D. Experimental Evidence for the Quasi-“Living” Nature of the Grignard Metathesis Method for the Synthesis of Regioregular Poly(3-alkylthiophenes). *Macromolecules* **2005**,*38*,8649-8656. DOI: 10.1021/ma051122k.
10. **Iovu**, **Mihaela C**.; Jeffries-EL, Malika; Sheina, Elena E.; Cooper, Jessica R.; McCullough, Richard D. Regioregular Poly(3-alkylthiophene) Conducting Block Copolymers. *Polymer* **2005**, *46*, 8582-8586. DOI: 10.1016/j.polymer.2005.05.035.
11. Sheina, Elena E.; Liu, Jinsong; **Iovu**, **Mihaela C**.; Laird, Darin W.; McCullough, Richard D. Chain Growth Mechanism for Regioregular Nickel-Initiated Cross-Coupling Polymerizations. *Macromolecules* **2004**, *37*, 3526-3528. DOI: 10.1021/ma0357063.
12. **Iovu**, **Mihaela C**.; Matyjaszewski, Krzysztof Controlled/Living Radical Polymerization of Vinyl Acetate by Degenerative Transfer with Alkyl Iodides. *Macromolecules* **2003**, *36*, 9346-9354. DOI: 10.1021/ma034892.
13. **Iovu**, **Mihaela C**.; Buzdugan, Emil; Ghioca, Paul; Britchi, Alina G.; Mapolie, Selwyn F.; Iovu, HoriaRandom Anionic Copolymerization of Styrene with Butadiene using Methyl tert-Butyl Ether/n-Butyl Lithium as Initiator System. Reaction Mechanism and Kinetic Model.*Revue Roumaine de Chimie* **2003**, *48*, 163-171.
14. **Iovu**, **Mihaela C**.; Maithufi, Norah G.; Mapolie, Selwyn F. Evaluation of Bis(2-pyridinal)ethylenediimine as Ligand for Atom Transfer Radical Polymerization of Methyl Methacrylate: Influence of Polar Solvents.*Polymer International* **2003**, *52*, 899-907. DOI: 10.1002/pi.1124.
15. **Iovu**, **Mihaela C**.; Maithufi, Norah G.; Mapolie, Selwyn F. Copper-Mediated ATRP of Methyl Methacrylate in Polar Solvents using a Bifunctional Pyridinal Diimine Ligand. *Macromolecular Symposia* **2003**, *193*, 209-226. DOI: 10.1002/masy.200390054.
16. Stere, Cristina; **Iovu**, **Mihaela C**.; Iovu, Horia; Boborodea, Adrian; Vasilescu, Dan S.; Read, Simon J. Anionic and Ionic Coordinative Polymerization of ε-Caprolactone. *Polymers for Advanced Technologies* **2001**, *12*, 300-305. DOI: 10.1002/pat.68. (2 Citations Google Scholar)
17. Stere, Cristina; **Iovu**, **Mihaela C**.; Vasilescu, Dan-Sorin; Boborodea, Adrian; Spurcaciu, BogdanAliphatic Polyesters as Biocompatible Materials. *Roumanian Chemical Quarterly Reviews* **2001**, *8*, 95-116.
18. **Iovu**, **Mihaela C**.; Mapolie, Selwyn F.; Britchi, Alina G. Styrene-Butadiene Rubber Synthesized by Anionic Polymerization. *Macromolecular Symposia* **2001**, *165*, 55-62.
19. **Iovu**, **Mihaela C**.; Buzdugan, Emil; Iovu, Horia; Ghioca, Paul; Stinga, Florina; Badea, Elena G.; Spurcaciu, Bogdan Butadiene Copolymerization with Styrene in the Presence of Butyllithium-Methyl tert-Butyl Ether Catalytic System: Investigation of Reactivity Relationship. *Materiale Plastice* *(Bucharest)* **2000**, *37*, 70-76.
20. Ghioca, Paul; Buzdugan, Emil; Serban, Sever; Stinga, Florina; **Iovu**, **Mihaela C**. Effect of Block Polybutadiene Microstructure on Star Styrene-Butadiene Block Copolymers Thermo-Oxidative Stability. *Materiale Plastice* *(Bucharest)* **2000**, *37*, 34-41.
21. **Iovu**, **Mihaela C**.; Buzdugan, Emil; Teodorescu, Mircea; Britchi, Alina G.; Hubca, Gheorghe; Iovu, Horia,Copolymerization of Styrene with Butadiene using Methyl Tert-Butyl Ether as Active Center Modifier. *Macromolecular Materials and Engineering* **1999**, *271*, 18-23.
22. Buzdugan, Emil; Ghioca, Paul; Stribeck, Norbert; **Iovu**, **Mihaela C**.; Serban, Sever; Cerchez, Irina; Spurcaciu, Bogdan; Stancu, Rodica; Stinga, FlorinaInvestigation of Anionic Polymerization of ε-Caprolactone.*Materiale Plastice* *(Bucharest)* **1999**, *36*, 226-232. (2 Citations Google Scholar)
23. Ghioca, Paul; Buzdugan, Emil; Stribeck, Norbert; Serban, Sever; Cerchez, Irina; Stancu, Rodica; **Iovu**, **Mihaela C**.; Stinga, Florina Modification of High-Density Polyethylene with Styrene-Isoprene Block Copolymers. *Materiale Plastice* *(Bucharest)* **1999**, *36*, 167-174.
24. Ghioca, Paul; Buzdugan, Emil; Stribeck, Norbert; Serban, Sever; Cerchez, Irina; Stancu, Rodica; **Iovu**, **Mihaela C**.; Stinga, Florina Modification of High Density Polyethylene by Styrene-Butadiene Block Copolymers. Effect of Styrene Component of Linear Styrene-Butadiene Block Copolymer. *Materiale Plastice (Bucharest)* **1999**, *36*, 28-37.
25. Buzdugan, Emil; Ghioca, Paul; Stribeck, Norbert; Badea, Elena G.; Serban, Sever; **Iovu**, **Mihaela C**. Mechanical Properties of Some Brominated Styrene-Diene Block Copolymers. *European Polymer Journal* **1998**, *34*, 1531-1537.
26. Iovu, Horia; Hubca, Gheorghe; **Iovu**, **Mihaela C**.; Dimonie, Mihai Conductive Polymers Obtained by Iodine-Doping of Polyisoprene Synthesized with Lanthanide-Based Catalysts. *Revue Roumaine de Chimie* **1998**, *43*, 341-346.
27. Stere, Cristina; **Iovu**, **Mihaela C**.; Boborodea, Adrian; Vasilescu, Dan S.; Fazakas-Anca, Iosif S. Anionic and Ionic Coordinative Polymerization of L-Lactide. *Polymers for Advanced Technologies* **1998**, *9*, 322-325.
28. Buzdugan, Emil; Ghioca, Paul; Cerchez, Irina; Stancu, Rodica; **Iovu**, **Mihaela C**.; Stanga, Florina Effect of Lewis Bases on the Anionic Polymerization Kinetics of Butadienes. *Materiale Plastice* *(Bucharest)* **1998**, *35*, 197-205.
29. Buzdugan, Emil; **Iovu**, **Mihaela C**.; Ghioca, Paul; Stanga, Florina; Badea, Elena G.; Cerchez, Irina; Stancu, R.; Iovu, Horia Anion Exchangers Based on Styrene-Diene Copolymers Synthesized by Anionic Polymerization. *Materiale Plastice* *(Bucharest)* **1998**, *35*, 160-164.
30. Ghioca, Paul; Buzdugan, Emil; Stribeck, Norbert; Serban, Sever; Stancu, Rodica; Cerchez, Irina; Stanga, Florina; **Iovu**, **Mihaela C**. Star Styrene-Butadiene Block Copolymers Thinned by Liquid Polybutadienes. Physical and Mechanical Characteristics. *Materiale Plastice* *(Bucharest)* **1998**, *35*, 82-88.
31. Buzdugan, Emil; Ghioca, Paul; **Iovu**, **Mihaela C**.; Badea, Elena G.; Stribeck, Norbert Chemical Modification of Styrene-Diene Block Copolymers: Ionomers Based on Styrene-Butadiene Block Copolymers Having Quaternary Ammonium Groups.*Materiale Plastice* *(Bucharest)* **1998**, *35*, 45-50.
32. Ghioca, Paul; Buzdugan, Emil; Stribeck, Norbert; Serban, Sever; Cerchez, Irina; Stancu, Rodica; **Iovu**, **Mihaela C**.; Stinga, Florina High Density Polyethylene Modification with Styrene-Diene Block Copolymers: Effect of the Elastomer and Plastomer Blocks Nature from Star Block Copolymers. *Materiale Plastice* *(Bucharest)* **1997**, *34*, 180-186.
33. Iovu, Horia; Hubca, Gheorghe; **Iovu**, **Mihaela C**. Physico-Mechanical Behavior of Composites Based on Carbon Fiber-Reinforced Epoxy Resins as a Function of the Nature of the Crosslinking Agent and the Volume Fraction of Fibers. *Materiale Plastice* *(Bucharest)* **1997**, *34*, 105-111.
34. Ghioca, Paul; Buzdugan, Emil; Stribeck, Norbert; Serban, Sever; Stancu, Rodica; Cerchez, Irina; **Iovu**, **Mihaela C**.; Stanga, Florina, Modification of High-Density Polyethylene with Styrene-Butadiene Block Copolymers: Effect of Polybutadiene Block Microstructure in Star-Block Copolymers. *Materiale Plastice* *(Bucharest)* **1997**, *34*, 89-96.
35. Ghioca, Paul; Buzdugan, Emil; Stribeck, Norbert; Serban, Sever; Cerchez, Irina; Stancu, Rodica; **Iovu**, **Mihaela C**.; Stinga, Florina Modification of High Density Polyethylene by Styrene-Butadiene Block Copolymers: Effect of Styrene Content in the Star Block Copolymers. *Materiale Plastice* *(Bucharest)* **1996**, *33*, 246-252.

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

1. Functional Polycaprolactones for Drug Delivery Applications, CAL POLY San Luis Obispo, 01/31/2020
2. Functional Polycaprolactones for Micellar Delivery of Anticancer Drugs and Histone Deacetylase Inhibitors, ACS 2019 Southwest Regional and Rocky Mountain Regional Meeting, 11/13/2019-11/16/2019, EI Paso, Texas.
3. The Discovery and Uses of Neodymium, ACS 2019 Southwest Regional and Rocky Mountain Regional Meeting, 11/13/2019-11/16/2019, EI Paso, Texas.
4. Functional Polycaprolactones for Drug Delivery Applications, *21st Romanian International Conference on Chemistry and Chemical Engineering*, 09/04/2019-09/07/2019, Mamaia, Romania
5. Borodin’s contributions to organic chemistry, *258th ACS National Meeting*, 08/25/2019-08/29/2019, San Diego, California
6. Pyrrole-based organic semiconducting materials for organic electronics applications, *15th International Conference on Polymers for Advanced Technologies*, 08/08/2019-08/10/2019, College Station, Texas
7. Functional Polycaprolactones for Drug Delivery Applications, Delhi University, 07/09/2019, Delhi, India
8. Functional Polycaprolactones for Drug Delivery Applications, IISER Kolkata, 07/05/2019, Calcutta, India
9. Highly Active Neodymium Catalyst for Polymerization of Dienes, IIT Kharagpur, 07/04/2019, Kharagpur, India
10. Thienopyrrole Organic Semiconductors for Organic Field Effect Transistors (OFETs), IACS Kolkata, 07/03/2019, Calcutta, India
11. Functional Polycaprolactones for Drug Delivery Applications, University of Calcutta, 07/02/2019, Calcutta, India
12. Functional Polycaprolactones for Delivery of Anticancer Drugs, local chapter meeting, 02/12/2019, Midewstern, Texas
13. Pyrrole-based Building Blocks for Organic Electronics, 02/13/2019, Cameron University
14. Functional Polycaprolactones for Delivery of Anticancer Drug, 05/24/2019, Joint Symposium UT Dallas and Texas A&M Agrilife Dallas Center
15. Oxidative Degradation of Polypropylene Mesh in Escherichia coli media, 04/27/2019, Workshop on Antimicrobial Innovation, UTD-UTSW
16. Functional Polycaprolactone for Delivery of Anticancer Drugs and Histone Deacetylase Inhibitors, 4th Global Congress & Expo on Materials Science and Nanoscience, 10/16/2018, Amsterdam, Netherlands
17. Combination Loading of Doxorubicin and Resveratrol in Polycaprolactone Polymeric Micelles, 256th ACS National Meeting & Exposition, 08/22/2018, Boston, Massachusetts
18. Functional Polycaprolactones for Drug Delivery, 06/14/2018, Houston Methodist Research Institute
19. Functional Polymers for Drug Delivery Applications, 4th Functional Polymeric Materials Conference, 06/07/2018, Nassau, Bahamas
20. Functional Polycaprolactones for Delivery of Anticancer Drugs and Histone Deacetylase Inhibitors, 06/30/2017, Department of Chemistry, University of Bucharest, Romania
21. Donor-Acceptor Polymers for Organic Photovoltaics, 10/06/2016, Department of Chemical Engineering, University of Houston
22. Functional Polycaprolactones for Micellar Delivery of Anticancer Drugs, 12/04/2015, Department of Biomedical Engineering, University of North Texas
23. 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
24. Donor-Acceptor Semiconducting Polymers for Organic Photovoltaics, 09/22/2014, Texas State University
25. Functional Polycaprolactones for Micellar Delivery of Anticancer Drugs and Histone Deacetylase Inhibitors (HDACi), 10/02/2014, Carnegie Mellon University
26. Benzodithiophene Semiconducting Polymers for Organic Photovoltaics, 03/27/2013, Indiana University
27. Thermoresponsive Polymers for Drug Delivery Applications, University of Texas Metroplex Days, 03/01/2013, University of Texas at Dallas
28. Synthesis and Self-Assembly of Aliphatic Polyesters, DFW New Young Investigators, ACS Dallas-Fort Worth Local Meeting, 01/28/2012, Texas Christian University
29. Benzodithiophene-Based Semiconducting Polymers for Organic Photovoltaics, 09/15/2011, University of South Carolina
30. Benzodithiophene Semiconducting Polymers for Organic Electronics, 10/28/2011, University of Arlington
31. Benzodithiophene-Based Semiconducting Polymers for Organic Photovoltaics, 02/01/2011, MIT/Harvard Center for Excitonics
32. Semiconducting Polymers for Organic Electronics, 10/08/2010, University of Iowa
33. Semiconducting Polymers for Organic Electronics, 10/07/2010, Iowa State University
34. Semiconducting Polymers for Organic Electronics, 09/30/2010, Oklahoma State University
35. Semiconducting Polymers for Organic Photovoltaics, 09/17/2010, University of North Texas
36. Semiconducting Polymers for Organic Photovoltaics, 04/20/2010, North Dakota State University
37. Semiconducting Polymers for Organic Photovoltaics, 10/09/2009, Duquesne University
38. New Materials for Photovoltaics, CHEMS Planning Grant Meeting, 08/19/2009, Virginia Tech
39. Polythiophene-based Materials for Organic Electronics, 04/14/2009, Texas Christian University
40. Polymers: From Research in the Laboratory to Real Life Applications, Scholars’ Day, 02/28/2009, University of Texas at Dallas
41. Polythiophenes for Organic Electronics, 02/10/2009, Ouachita Baptist University
42. Polythiophenes for Organic Electronics, 11/21/2008, Southern Methodist University

**Oral presentations at professional meetings**:

1. Thienopyrrole organic semiconductors for organic field effect transistors (OFETs), *14th International Symposium on Functional π-Electron Systems,* Berlin, Germany, June 2-7, 2019.
2. Combination loading of doxorubicin and resveratrol in polycaprolactone polymeric micelles, *256th ACS National Meeting & Exposition, Boston*, MA, August 19-23, 2018.
3. Donor-Acceptor Polymers for Organic Photovoltaics, *3rd World Chemistry Conference*, Dallas, TX, September 11-12, 2017.
4. Highly Active Neodymium Catalysts for Polymerization of Dienes, *12th IUPAC International Symposium on Ionic Polymerization*, Durham University, United Kingdom, September 18-22, 2017.
5. 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.
6. Donor-Acceptor Molecules for Organic Photovoltaics, *253rd ACS National Meeting & Exposition*,San Francisco, CA, United States, April2-6, 2017.
7. 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.
8. Highly Active Neodymium Catalyst for Polymerization of Myrcene and Limonene, *252nd ACS National Meeting & Exposition,* Philadelphia, PA, United States, August 21-25, 2016
9. Benzodithiophene and Benzodifuran Organic Semiconductors for Organic Photovoltaics, *251st ACS National Meeting & Exposition*, San Diego, CA, United States, March 13-17, 2016. (*Invited*)
10. 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.
11. Functional Polycaprolactones for Delivery of Anticancer Drugs, *71st Joint Southeastern/Southwest ACS Regional Meeting*,Memphis, TN, United States, November 4-7, 2015. (*Invited*)
12. Amphiphilic Polycaprolactones for Micellar Delivery of Anticancer Drugs, *Pacifichem 2015*, Honolulu, HI, United States, December 15-20, 2015.
13. 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*)
14. Thermoresponsive Functionalized Polycaprolactones for Micellar Drug Delivery Systems, *248th* *ACS National Meeting & Exposition*, San Francisco, CA, United States, August 10-14, 2014.
15. Semiconducting Liquid Crystalline Block Copolymers, *247th* *ACS National Meeting & Exposition*, Dallas, TX, United States, March 25-29, 2014.
16. Semiconducting Liquid Crystalline Block Copolymers for Organic Electronics Applications, *247th* *ACS National Meeting & Exposition*, Dallas, TX, United States, March 25-29, 2014.
17. 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.
18. Benzodithiophene Semiconducting Polymers for Organic Solar Cells, *243rd* *ACS National Meeting & Exposition*, San Diego, United States, March 25-29, 2012.
19. Semiconducting Polymers for Organics Solar Cells, *67th Southwest ACS Regional Meeting*, Austin, TX, United States, November 9-12, 2011.
20. Synthesis and Self-Assembly of Amphiphilic Aliphatic Polyesters, *242nd ACS National Meeting & Exposition*, Denver, CO, United States, August 28-September 1, 2011.
21. Semiconducting Liquid Crystalline Polymers, *242nd ACS National Meeting & Exposition*, Denver, CO, United States, August 28-September 1, 2011.
22. Semiconducting Polymers Containing Benzodithiophene with Phenylethynyl Substituents, *241th ACS National Meeting*, Anaheim, CA, United States, March 27-31, 2011.
23. Synthesis and Optoelectronic Properties of Semiconducting Polymers Containing Benzodithiophene with Phenylethynyl Substituents, *2010 MRS Meeting*, Boston, MA, United States, November 29-December 3, 2010.
24. Novel Semiconducting Polymers Containing Benzodithiophene with Phenylethynyl Substituents, *239th ACS National Meeting & Exposition*, San Francisco, CA, United States, March 27-31, 2010.
25. 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.
26. Polythiophene-Quantum Dot Hybrid Nanomaterials for Bulk Heterojunction Solar Cells, *Fall MRS Meeting*, Boston, MA, United States, December 1-5, 2008.
27. Oxidative Degradation ofpolypropylene mesh in *E. coli* media, Workshop on Antimicrobial Innovation, University of Texas at Dallas, April 27, 2019.

**Poster presentations and contributed oral presentations at professional meetings**:

1. Talukder, Md Muktadir; Biewer, Michael C.; **Stefan, Mihaela C.**, End group analysis of poly(3-hexylthiophene) from halogenated monomers and their potential application for bis-end-functionalization, *258th ACS National Meeting & Exposition*, San Diego, CA, United States, August 25-29, 2019.
2. Cue, John Michael O.; Kularatne, Ruwanthi N.; Ren, Yixin; McCandless, Gregory C.; Biewer, Michael C.; **Stefan, Mihaela C.**, Quasi-*living* Polymerization of Dienes and Polar Vinyl Monomers Catalyzed by a Discrete Neodymium Phosphate Complex, *258th ACS National Meeting & Exposition*, San Diego, CA, United States, August 25-29, 2019.
3. Gamage, Prabhath L.; Fiedler, Anna K.; Wallace, Adele C. M.; Stefan, Mihaela C., Biodegradation of Surgical Polypropylene Mesh, *258th ACS National Meeting & Exposition*, San Diego, CA, United States, August 25-29, 2019.
4. Calubaquib, Erika L.; Soltantabar, Pooneh; Stefan, Mihaela C., Tuning the Thermoresponsive Property of Oligoethylene Substituted Polycaprolactones, *258th ACS National Meeting & Exposition*, San Diego, CA, United States, August 25-29, 2019.
5. Udamulle Gedara, Chinthaka M.; **Stefan, Mihaela C.**; Biewer, Michael C., Aziridine-based photochromic monomers for conductive polymers, *258th ACS National Meeting & Exposition*, San Diego, CA, United States, August 25-29, 2019.
6. Calubaquib, Erika L.; **Stefan, Mihaela C.**, Thermoresponsive polycaprolactones for drug delivery applications, *15th International Conference on Polymers for Advanced Technologies*, College Station, TX, United States, August 8-10, 2019.
7. Cue, John Michael O.; **Stefan, Mihaela C.**, Pseudo-living polymerization of dienes and polar vinyl monomers catalyzed by neodymium phosphate complexes, *15th International Conference on Polymers for Advanced Technologies*, College Station, TX, United States, August 8-10, 2019.
8. Miller, Justin T.; Ren, Yixin; Polderman, Stefanie T.; Vo, Trinh D.; Wallace, Adele C. M.; Cue, John Michael O.; Tran, Sarah T.; Biewer, Michael C.; **Stefan, Mihaela C.**, A Halide-Free Zeigler-Natta-type Catalyst for Stereospecific Diene Polymerization, *15th International Conference on Polymers for Advanced Technologies*, College Station, TX, United States, August 8-10, 2019.
9. Silva, Enosha De; Novak, Bruce; **Stefan, Mihaela C.**; Brown, Alexander; Balkus, Kenneth, pH-Triggered amphiphilic polycarbodiimides as nanocarriers, *257th ACS National Meeting & Exposition*, Orlando, FL, United States, March 31-April 4, 2019.
10. Gunawardhana, Ruwan; **Stefan, Mihaela C.**; Biewer, Michael C.; Gamage, Prabhath; Bulumulla, Chandima, Thieno [2, 3] pyrrole containing organic small molecules for organic electronics applications, *257th ACS National Meeting & Exposition*, Orlando, FL, United States, March 31-April 4, 2019.
11. Gamage, Prabhath; Fiedler, Anna; **Stefan, Mihaela C.**; Biewer, Michael C., Pyrrole-based donor-acceptor conjugated molecules for organic electronics, *257th ACS National Meeting & Exposition*, Orlando, FL, United States, March 31-April 4, 2019.
12. Gunawardhana, Ruwan; Bulumulla, Chandima; Gamage, Prabhath; Biewer, Michael C.; **Stefan, Mihaela C.**, Ester-functionalized, wide band-gap conducting polythiophene for organic field effect transistors, *257th ACS National Meeting & Exposition*, Orlando, FL, United States, March 31-April 4, 2019.
13. Gamage, Prabhath; Fiedler, Anna; **Stefan, Mihaela C.**; Biewer, Michael C., Bipyrimidine Based Donor-Acceptor Conjugated Polymers for Organic Electronics*, 256th ACS National Meeting & Exposition, Boston*, MA, August 19-23, 2018.
14. Gunawardhana, Ruwan; Bulumulla, Chandima; **Stefan, Mihaela C.**, Benzodithiophene (BDT) Based Polymers for Organic Photovoltaics, *256th ACS National Meeting & Exposition*, Boston, MA, August 19-23, 2018.
15. Kularatne, Ruvanthi; Bulumulla, Chandima; Nguyen, Hien; **Stefan, Mihaela C.**, Ring Opening Polymerization of Lactones by a Neodymium Coordination Catalyst, *255th ACS National Meeting & Exposition*, New Orleans, LA, March 28-22, 2018.
16. Ren, Yixin; Kularatne, Ruvanthi; Washington, Katherine; Biewer, Michael C., **Stefan, Mihaela C.**, 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.
17. Bulumulla, Chandima; Kularatne, Ruvanthi; Gunawardhana, Ruwan; Nguyen, Hien; Biewer, Michael C., **Stefan, Mihaela C.**, Pyrrole Containing Semiconducting Small Molecules and Polymers for Organic Electronics, *255th ACS National Meeting & Exposition*, New Orleans, LA, March 18-22, 2018.
18. Bulumulla, Chandima; Nguyen, Hien; Gunawardhana, Ruwan; Kularatne, Ruvanthi; Du, Jia; Washington, Katherine; Biewer, Michael C.; **Stefan, Mihaela C.**, Fused ring systems containing pyrroles for organic electronics, *254th ACS National Meeting* & *Exposition*, Washington, DC, United States, August 20-24, 2017.
19. Kularatne, Ruvanthi; Washington, Katherine; Bulumulla, Chandima; Biewer, Michael C.; **Stefan, Mihaela C.**, HDACi conjugated poly (epsilon-caprolactone) for the delivery of doxorubicin, *254th ACS National Meeting* & *Exposition*, Washington, DC, United States, August 20-24, 2017.
20. Gunawardhana, Ruwan; Bulumulla, Chandima; Du, Jia; Biewer, Michael C.; **Stefan**, **Mihaela C**., Benzodithiophene (BDT) Based Small Molecules for Organic Photovoltaics, *253rd ACS National Meeting* & *Exposition*, San Francisco, CA, United States, April 2-6, 2017.
21. Washington, Katherine E.; Kularatne, Ruvanthi N.; Ren, Yixin; Biewer, Michael C.; **Stefan**, **Mihaela C**., Functionalized Star-​Like ε-​Caprolactone Amphiphilic Block Copolymers for Thermoresponsive Micellar Drug Delivery Systems, *253rd ACS National Meeting* & *Exposition*, San Francisco, CA, United States, April 2-6, 2017.
22. Yang, Annie; Kularatne, Ruvanthi N.; **Stefan**, **Mihaela C**., NdCl3·3TEP-​TIBA Catalyst System for Coordination Polymerization of Diene and Vinyl Monomers, *253rd ACS National Meeting* & *Exposition*, San Francisco, CA, United States, April 2-6, 2017.
23. Pathiranage, Taniya M.; Boothby, Jennifer M.; Biewer, Michael C.; Ware, Taylor H.; **Stefan**, **Mihaela C**., Tensile Property Enhancement and Photo-​Actuation of Supramolecular Self-​Assembled Copolymers of P3HT, *253rd ACS National Meeting* & *Exposition*, San Francisco, CA, United States, April 2-6, 2017.
24. Dissanayake, Dushanthi S.; Gunathilake, Samodha S.; Du, Jia; Pathiranage, Taniya M.; Sheina, Elena; Gomez, Enrique; **Stefan**, **Mihaela C**.; Biewer, Michael C., Triethylene Glycol Monomethyl Ether Substituted Polythiophenes for Organic Electronic Applications, *253rd ACS National Meeting* & *Exposition*, San Francisco, CA, United States, April 2-6, 2017.
25. Karmegam, Vasanthy; Gunathilake, Samodha S.; **Stefan**, **Mihaela C**.; Biewer, Michael C., Synthesis and Characterization of Pyrimidine-Conjugated Semiconducting Polymers, *72nd Southwest Regional Meeting of the American Chemical Society*, Galveston, TX, United States, November 10-13, 2016.
26. Pathiranage, Taniya M.; Nguyen, Hien Q.; Boothby, Jennifer M.; Biewer, Michael C.; Ware, Taylor H.; **Stefan**, **Mihaela C**., Improved Self-Assembly and Tensile Behavior for Block Copolymer Thin Films of P3HT with Liquid Crystalline Mesogens, *72nd Southwest Regional Meeting of the American Chemical Society*, Galveston, TX, United States, November 10-13, 2016.
27. Dissanayake, Dushanthi; **Stefan**, **Mihaela C**.; Biewer, Michael C., Developing Novel Synthetic Routes Towards Incorporating Photochromic Spiropyrans into Thiophene Based Semiconducting Polymers, *72nd Southwest Regional Meeting of the American Chemical Society*, Galveston, TX, United States, November 10-13, 2016.
28. Niermann, Crystal; Haring, Alex; Elashyi, Tamer; Johnson, Blake; **Stefan**, **Mihaela C**., Semiconducting Elastomeric Block Copolymers Containing Poly(3-hexylthiophene), *252nd ACS National Meeting & Exposition*, Philadelphia, PA, United States, August 21-25, 2016.
29. Ren, Yixin; Kularatne, Ruvanthi; Biewer, Michael C.; **Stefan**, **Mihaela C**., Neodymium-Based Catalysts for Polymerization of Dienes, *252nd ACS National Meeting & Exposition*, Philadelphia, PA, United States, August 21-25, 2016.
30. Washington, Katherine E.; Kularatne, Ruvanthi; Du, Jia; Gillings, Matthew; Geng, Calvin; Biewer, Michael C.; **Stefan**, **Mihaela C**., Comparison of Star-Like and Linear Amphiphilic γ-Substituted ε-Caprolactone Block Copolymers for Drug Delivery Applications, *252nd ACS National Meeting & Exposition*, Philadelphia, PA, United States, August 21-25, 2016.
31. Karmegam, Vasanthy; Gunathilake, Samodha; Biewer, Michael C.; **Stefan**, **Mihaela C**., Synthesis and Characterization of Novel Pyrimidine Donor-Acceptor Polymers, *252nd ACS National Meeting& Exposition*, Philadelphia, PA, United States, August 21-25, 2016.
32. Du, Jia; **Stefan**, **Mihaela C**.; Biewer, Michael C., Furan Based Block Copolymers for Electronic Applications, *252nd ACS National Meeting & Exposition*, Philadelphia, PA, United States, August 21-25, 2016.
33. Kularatne, Ruvanthi; Krang, Davy; Yang, Annie; Biewer, Michael C.; **Stefan**, **Mihaela C**., Highly Active Neodymium Catalyst for Polymerization of Dienes, Vinyl Monomers, and Ring-Opening Polymerization of Lactones, *251st ACS National Meeting & Exposition*, San Diego, CA, United States, March 13-17, 2016.
34. Pathiranage, Taniya; Bhatt, Mahesh; Magurudeniya, Harsha; Rainbolt, Elizabeth; Biewer, Michael C.; **Stefan**, **Mihaela C**., Enhanced Supramolecular Self-Assembly of P3HT by Copolymerization with Methacrylate Attached Liquid Crystalline Mesogens, *251st ACS National Meeting & Exposition*, San Diego, CA, United States, March 13-17, 2016.
35. Bulumulla, Chandima; Du, Jia; Washington, Katherine E.; Mills, Cody; Biewer, Michael C.; **Stefan**, **Mihaela C**., Influence of the Functionalized Side Chains of Polythiophene Diblock Copolymers: CdSe nanoparticle (NP) Bulk Heterojunction Solar Cells, *251st ACS National Meeting & Exposition*, San Diego, CA, United States, March 13-17, 2016.
36. Washington, Katherine E.; Kularatne, Ruvanthi N.; Doan, Nicolette C.; Webb, Jack C.; Gillings, Mathew J.; Biewer, Michael C.; **Stefan**, **Mihaela C**., Star-like Amphiliphilic γ-Substituted ε-Caprolactone Block Copolymers for Drug Delivery Applications, *250th ACS National Meeting & Exposition*, Boston, MA, United States, August 16-20, 2015.
37. Du, Jia; Bulumulla, Panikki; Barrera, Diego; Hsu, Julia W.; Biewer, Michael C.; **Stefan**, **Mihaela C**., Benzodithiophene and Benzothiadiazole Donor-Acceptor Small Molecules for Solution-Processed Small Molecule Organic Solar Cells, *250th ACS National Meeting & Exposition*, Boston, MA, United States, August 16-20, 2015.
38. Gunathilake, Samodha S.; Huang, Peishen; Nguyen, Hien Q.; Magurudeniya, Harsha D.; **Stefan**, **Mihaela C**.; Biewer, Michael C., Synthesis and Characterization of Novel Semiconducting Polymers Containing Pyrimidine, *247th ACS National Meeting & Exposition*, Dallas, TX, United States, March 16-20, 2014.
39. Kularatne, Ruvini S.; Taenzler, Ferdinand J.; Magurudeniya, Harsha D.; Du, Jia; Murphy, John W.; Sheina, Elena E.; Gnade, Bruce E.; Biewer, Michael C.; **Stefan**, **Mihaela C**., Donor-Acceptor Copolymers Containing Benzodithiophenes with Bithienyl Substituents to Achieve High Open Circuit Voltage in Bulk Heterojunction Solar Cells, *247th ACS National Meeting & Exposition*, Dallas, TX, United States, March 16-20, 2014.
40. Magurudeniya, Harsha D.; Westbrook, Jacob K.; Kularatne, Ruvini S.; Nguyen, Hien Q.; **Stefan**, **Mihaela C**.; Biewer, Michael C., Novel Catalysts for Grignard Metathesis (GRIM) Polymerization, *247th ACS National Meeting & Exposition*, Dallas, TX, United States, March 16-20, 2014.
41. Huang, Peishen; Gunathilake, Samodha S.; Du, Jia; Black, Kevin T.; Sista, Prakash; **Stefan**, **Mihaela C**.; Biewer, Michael C., Synthesis of Novel Benzodifuran Semiconducting Polymers and Systematic Studies on Furan Building Block in Optoelectronic Applications, *247th ACS National Meeting & Exposition*, Dallas, TX, United States, March 16-20, 2014.
42. Dissanayake, Dushanthi S.; Huang, Peishen; **Stefan**, **Mihaela C**.; Biewer, Michael C., Synthesis of Block Copolymers Containing Regioregular Poly(3-hexyl)thiophene and Poly(4-vinylphenol) for Organic Field Effect Transistors, *247th ACS National Meeting & Exposition*, Dallas, TX, United States, March 16-20, 2014.
43. Gunathilake, Samodha S.; Huang, Peishen; Bhatt, Mahesh P.; **Stefan**, **Mihaela C**.; Biewer, Michael C., Nitrogen Containing Graphene Like Structures by Pyrolyzing Pyrimidine Polymers and Their Application in Semiconductor/Graphene Hybrid Field Effect Transistors, *247th ACS National Meeting & Exposition*, Dallas, TX, United States, March 16-20, 2014.
44. Pathiranage, Taniya M.; Bhatt, Mahesh P.; Magurudeniya, Harsha D.; Biewer, Michael C.; **Stefan**, **Mihaela C**., Synthesis and Characterization of Side-Chain Thermotropic Liquid Crystalline Block Copolymers Containing P3HT, *247th ACS National Meeting & Exposition*, Dallas, TX, United States, March 16-20, 2014.
45. Du, Jia; Kularatne, Ruvini S.; Magurudeniya, Harsha D.; Biewer, Michael C.; **Stefan**, **Mihaela C**., Synthesis Donor-Acceptor Copolymers Containing Benzodithiophene with Bithienyl Substituents for Bulk Heterojunction Solar Cells, *247th ACS National Meeting & Exposition*, Dallas, TX, United States, March 16-20, 2014.
46. Senevirathne, Suchithra A.; Hao, Jing; Biewer, Michael C.; **Stefan**, **Mihaela C**., Amphiphilic Polycaprolactone Block Copolymers Containing Conjugated Histone Deacetylase Inhibitors for Delivery of Anticancer Drugs and HDAC Inhibitors, *247th ACS National Meeting & Exposition*, Dallas, TX, United States, March 16-20, 2014.
47. Washington, Katherine E.; Rainbolt, Elizabeth A.; Senevirathne, Suchithra; Biewer, Michael C.; **Stefan**, **Mihaela C**., γ-Substituted ε-Caprolactone Monomers for the Synthesis of Diblock Copolymers for Micellar Drug Delivery Application, *247th ACS National Meeting & Exposition*, Dallas, TX, United States, March 16-20, 2014.
48. **Stefan**, **Mihaela C**.; Bhatt, Mahesh P.; Washington, Katherine E.; Pathiranage, Taniya M.; Biewer, Michael C., Semiconducting Liquid Crystalline Block Copolymers for Organic Electronics Applications, *247th ACS National Meeting & Exposition*, Dallas, TX, United States, March 16-20, 2014.
49. Senevirathne, Suchithra A.; Hao, Jing; Michael, Biewer C.; **Stefan**, **Mihaela C**., Synthesis and Self-Assembly of Amphiphilic Polycaprolactone Block Copolymers Containing Conjugated Histone Deacetylase Inhibitors, *69th Southwest Regional Meeting of the ACS*, Waco, TX, United States, November 10-13, 2013.
50. Huang, Peishen; Gunathilake, Samodha S.; Sista, Prakash; **Stefan**, **Mihaela C**.; Biewer, Michael C., Synthesis and Optoelectronic Properties of Novel Benzodifuran Semiconducting Polymers, *245th ACS National Meeting & Exposition*, New Orleans, LA, United States, April 7-11, 2013.
51. Kularatne, Ruvini S.; Sista, Prakash; Nguyen, Hien Q.; **Stefan**, **Mihaela C**., Benzodithiophene Donor-Acceptor Semiconducting Polymers for Organic Solar Cells, *244th ACS National Meeting & Exposition*, Philadelphia, PA, United States, August 19-23, 2012.
52. **Stefan**, **Mihaela C**.; Sista, Prakash; Kularatne, Ruvini S.; Biewer, Michael C.; Dastoor, Paul; Wilson, Mitchell; Holmes, Natalie; Belcher, Warwick, Benzodithiophene Semiconducting Polymers for Organic Solar Cells, *243rd ACS National Meeting & Exposition*, San Diego, CA, United States, March 25-29, 2012.
53. Magurudeniya, Harsha D.; Sista, Prakash; Westbrook, Jacob K.; Nguyen, Hien Q.; Biewer, Michael C.; **Stefan**, **Mihaela C**., Nickel (II) Diimine Catalysts for Grignard Metathesis Polymerization*, 244th ACS National Meeting & Exposition*, Philadelphia, PA, United States, August 19-23, 2012.
54. Gunathilake, Samodha S.; Huang, Peishen; Nguyen, Hien Q.; **Stefan**, **Mihaela C**.; Biewer, Michael C., Semiconducting Polymers Containing Pyrimidine for Organic Light Emitting Diodes, *244th ACS National Meeting & Exposition*, Philadelphia, PA, United States, August 19-23, 2012.
55. Bhatt, Mahesh P.; Huynh, Martin K.; Sista, Prakash; Nguyen, Hien Q.; **Stefan**, **Mihaela C**., Synthesis and Optoelectronic Properties of Poly(3-alkenylthiophene) Diblock Copolymers, *244th ACS National Meeting & Exposition*, Philadelphia, PA, United States, August 19-23, 2012.
56. Elkassih, Sussana A.; Sista, Prakash; Papadimitratos, Alexios; Biewer, Michael C.; **Stefan**, **Mihaela C**.; Zakhidov, Anvar A., Synthesis and Characterization of Conjugated Polymers Containing Phenothiazine for PLED Application, *243rd ACS National Meeting & Exposition*, San Diego, CA, United States, March 25-29, 2012.
57. Hao, Jing; Servello, John; Sista, Prakash; Biewer, Michael C.; **Stefan**, **Mihaela C**., Synthesis and Self-Assembly of Novel Temperature Responsive Functional Caprolactone Polymers, *243rd ACS National Meeting & Exposition*, San Diego, CA, United States, March 25-29, 2012.
58. Huynh, Martin K.; **Stefan**, **Mihaela C**., Synthesis of Block Copolymers Containing Poly(3-alkenylthiophene) for OFETs, *243rd ACS National Meeting & Exposition*, San Diego, CA, United States, March 25-29, 2012.
59. Hao, Jing; Servello, John; Sista, Prakash; Biewer, Michael C.; **Stefan**, **Mihaela C**., Synthesis and Self-Assembly of Functional Caprolactone, *67th Southwest Regional Meeting of the American Chemical Society*, Austin, TX, United States, November 9-12, 2011.
60. Sista, Prakash; Bhatt, Mahesh P.; McCarry, Ashton; Nguyen, Hien Q.; Hao, Jing; Biewer, Michael C.; **Stefan**, **Mihaela C**., Variation of OFET Performance of Benzodithiophene Based Polymers as a Function of the Hydrophobicity of SiO2 Surface, *242nd ACS National Meeting* *& Exposition*, Denver, CO, United States, August 28-September 1, 2011.
61. Elkassih, Sussana A.; Sista, Prakash; Kularatne, Ruvini S.; Biewer, Michael C.; **Stefan**, **Mihaela C**., Synthesis and Characterization of Benzodithiophene with Phenylethynyl Substituents, *241st ACS National Meeting & Exposition*, Anaheim, CA, United States, March 27-31, 2011.
62. Hao, Jing; Hundt, Nadia; Hoang, Quan; Nguyen, Hien Q.; Sista, Prakash; **Stefan**, **Mihaela C**., Synthesis and characterization of Rod-Rod Di-Block Copolymers Containing Poly(3-hexylthiophene) and Poly(γ-benzyl-L-glutamate), *241st ACS National Meeting & Exposition*, Anaheim, CA, United States, March 27-31, 2011.
63. Sista, Prakash; Biewer, Michael C.; **Stefan**, **Mihaela C**., Synthesis and Electronic Properties of Semiconducting Polymers Containing Benzodithiophene, *241st ACS National Meeting & Exposition*, Anaheim, CA, United States, March 27-31, 2011.
64. Hao, Jing; Servello, John; Biewer, Michael C.; **Stefan**, **Mihaela C**., Synthesis and Self-Assembly of Functional Caprolactones, *241st ACS National Meeting & Exposition*, Anaheim, CA, United States, March 27-31, 2011.
65. Huynh, Martin K.; Bhatt, Mahesh; **Stefan**, **Mihaela C**., Synthesis of Random and Block Copolymers Containing Poly(3-alkenylthiophene), *241st ACS National Meeting & Exposi*tion, Anaheim, CA, United States, March 27-31, 2011.
66. Nguyen, Hien Q.; Schmiedel, Elizabeth A.; Castro, Patrick; **Stefan**, **Mihaela C**., Thieno[3,2-b:4,5-b']dipyrrole Building Blocks for Synthesis of Semiconducting Polymers, *241st ACS National Meeting & Exposition*, Anaheim, CA, United States, March 27-31, 2011.
67. Hundt, Nadia; **Stefan**, **Mihaela C**.; Biewer, Michael C.; Alemseghed, Mussie G.; Nguyen, Hien Q; Sista, Prakash; Hao, Jing; Dei, Daniel K.; Palaniappan, Kumaranad, Novel Semiconducting Polymers Containing Benzodithiophene with Phenylethynyl Substituents, *239th ACS National Meeting & Exposition*, San Francisco, CA, United States, March 21-25, 2010.
68. Schmiedel, Elizabeth A.; **Stefan**, **Mihaela C**.; Nguyen, Hien Q., Synthesis and Characterization of Thienodipyrrole Monomers, *239th ACS National Meeting & Exposition*, San Francisco, CA, United States, March 21-25, 2010.

**Grants/contracts awarded**:

1. Developing Hydrolytically Stable Secondary Thiols for 3D Printing, Adaptive 3D Technologies, 08/01/2019-07/31/2020, $50,000.
2. Tunable Biocompatible and Biodegradable Thermoresponsive Polycaprolactones, NSF 18-102 (Non-Academic Research Internships for Graduate Students (internship) Supplemental Funding Opportunity), 08/2019-12/2019, $36,134.00.
3. Functionalized Polycaprolactones for Delivery of Anticancer Drugs, Welch Foundation, 06/01/2019-05/31/2022, $185,000.
4. Tunable Biocompatible and Biodegradable Thermoresponsive Polycaprolactones, NSF (CHE); 08/01/2016-07/31/2020; (co-PI: Michael C. Biewer), $435,000.
5. Active Neodymium Catalysts for Polymerization of Dienes and Vinyl Monomers, NSF (CHE), 08/01/2016-07/31/2020; $375,000.
6. Semiconducting Block Copolymers Capable of Actuated Changes of Opto-Electronic Properties, Welch Foundation, 06/01/2016-05/31/2019, $240,000.
7. 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).
8. Tuning the Photovoltaic Performance of Benzodithiophene and Benzodifuran Polymeric Semiconductors by Molecular Design, NSF (DMR), 07/01/2015-06/30/2017, $239,996.
9. 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).
10. Polythiophene Block Copolymers: A Systematic Investigation of Morphology-Optoelectronic Properties Dependence, Welch Foundation, 06/01/2013-05/31/2016, $180,000.
11. NSF-REU Supplement: Rational Design of Semiconducting Polymers with Tunable Opto-electronic Properties (DMR-0956116), 06/01/2013-09/01/2013, $6,000.
12. NSF-REU Supplement: Rational Design of Semiconducting Polymers with Tunable Opto-electronic Properties (DMR-0956116), 06/01/2012-09/01/2012, $6,500.
13. 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).
14. Semiconducting Liquid Crystalline Polymers, Welch Foundation, 06/01/2010-05/31/2013, $160,000.
15. 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.
16. 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. Balsara).

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 Rice 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

1. Vasanthy Karmegam, Department of Chemistry & Biochemistry, Functional Polymers for Drug Delivery and Opto-Electronic Applications, graduated Fall 2018.
2. Yixin Ren, Department of Chemistry & Biochemistry, Development of Neodymium-Based Catalysts for the Polymerization of Dienes and Cyclic Esters, graduated spring 2019
3. Ruwan Gunawardhana, Department of Chemistry & Biochemistry, Synthesis and Characterization of Thienopyrrole Based Organic Semiconductors for Organic Field-Effect Transistors, graduated Summer 2019.
4. Md Muktadir Talukder, Department of Chemistry & Biochemistry, Alpha Diimine Nickel (II) and Palladium (II) Complexes for Cross-Coupling Reactions, defended Fall 2020.
5. Pooneh Soltantabar, Department of Bioengineering, Microfabrication of An Organ-on-a-Chip Device to Model Cardiotoxicity Induced by Chemotherapies for Cancer Nanonomedicine Evaluation, defended Fall 2020.
6. Justin Todd Miller, Department of Chemistry, Magnetic and Catalytic Properties of Lanthanide Complexes, defended Spring 2021.

**Current doctoral students:**

1. Erika Calubaquib, Department of Chemistry & Biochemistry, Novel functionalized aliphatic polyesters for drug delivery applications, expected to graduate in Summer 2021.
2. John Cue, Department of Chemistry & Biochemistry, Systematic Variation of Phosphate Ligands of Neodymium Polymerization Catalysts, expected to graduate in Summer 2021.
3. Hanghang Wang, Department of Chemistry & Biochemistry, Aliphatic Polyesters for Drug Delivery of Anticancer Drugs, expected to graduate in Summer 2022.
4. Ziyuan Ma, Department of Chemistry & Biochemistry, Novel Pyrrole-based Semiconductors for Organic Electronics, expected to graduate in Summer 2023.
5. Abhi Bhadran, Department of Chemistry & Biochemistry, Enedyiene functionalized polycaprolactones for delivery of anticancer drugs, expected to graduate in Summer 2023.
6. Tejas Shah, Department of Chemistry & Biochemistry, Thermoresponsive and pH responsive polymers for drug delivery, expected to graduate in Summer 2024.
7. Somayeh Taslimy, Department of Chemistry & Biochemistry, Novel lanthanide catalysts for polymerization of bio-based monomers, expected to graduate in Summer 2025.
8. Himanshu Polara, Department of Chemistry & Biochemistry, The effect of polyphenols as co-loading agents for micellar drug delivery, expected to graduate in Summer 2025.
9. Cristina Cu Castillo, Department of Chemistry & Biochemistry, Organic semiconductors containing phothochromic aziridines, co-advised with Dr. Michael C. Biewer, expected to graduate in Summer 2025.
10. Ashutosh Shrivastava, Department of Chemistry & Biochemistry, The effect of polyphenols as co-loading agents for micellar drug delivery, expected to graduate in Summer 2025.
11. Phillip Damien Erandio Arche, Department of Chemistry & Biochemistry, Novel nickel catalysts for direct arylation, expected to graduate in Summer 2024.
12. Faeze Parsaee, Department of Chemistry & Biochemistry, Sugar-substituted aliphatic polyesters for drug delivery, expected to graduate in Summer 2024.

**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

**Postdoctoral supervision**:

Kumaranand Palaniappan, 2007-2009.

**Undergraduate supervision** (out of a total of 105 undergraduate students mentored since 2007)

**Current students**:

1. Amina Akhtar Aslam Biochemistry Major
2. Shelby Lee Boszor Chemistry Major
3. Tina Lin Chemistry Major
4. Karen Cecilia Mejia Chemistry Major
5. Alma Patel Chemistry Major
6. Mohammad Saleh Chemistry Major
7. Scott Terry Elmore Chemistry Major
8. Vivian Tran Biochemistry 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

1. 2014 Spring CHEM 2325 Introductory Organic Chemistry II
2. 2015 Spring CHEM 2325 Introductory Organic Chemistry II
3. 2015 Spring CHEM 5340 Advanced Polymer Science and Engineering
4. 2015 Fall NATS 1101 Natural Science and Mathematics Freshman Seminar
5. 2016 Spring CHEM 2325 Introductory Organic Chemistry II
6. 2016 Fall CHEM 2323 Introductory Organic Chemistry I
7. 2016 Fall HONS 3199 Untold Secrets of Chemistry and Physics (Collegium V Honors Reading)
8. 2017 Spring CHEM 2325 Introductory Organic Chemistry II
9. 2017 Spring CHEM 2324 Introductory Organic Chemistry for Engineers
10. 2017 Fall HONS 3199 Untold Secrets of Chemistry and Physics (Collegium V Honors Reading)
11. 2018 Spring CHEM 6V39 Special Topics in Organic Chemistry (Polymer Chemistry)
12. 2018 Fall CHEM 2323 Introductory Organic Chemistry I
13. 2018 Fall HONS 3199 Science Plays: From Michael Frayn’s *Copenhagen* to Alan

Alda’s *Radiance: The Passion of Marie Curie* (Collegium V Honors Reading)

1. 2019 Spring CHEM 2325 Introductory Organic Chemistry II
2. 2019 Fall HONS 3199 Science and Moral Dilemma: The Genius and

Tragedy of J. Robert Oppenheimer

(Collegium V Honors Reading)

33) 2020 Spring BMEN 3310 Fluid Mechanics and Transport Phenomena for Biomedical Engineering

34) 2020 Fall CHEM 2323 Introductory Organic Chemistry I

35) 2020 Fall HONS 3199 Science Plays: From Michael Frayn’s *Copenhagen* to Alan

Alda’s *Radiance: The Passion of Marie Curie* (Collegium V Honors Reading)

36) 2021 Spring HONS 3199 History of Vaccines(Collegium V Honors Reading)

**Service**:

1. 2020-2021: Chair American Chemical Society Dallas Forth Worth (DFW) local section
2. 2020-present: Associate Editor, Frontiers in Materials, Editorial Board of Polymeric and Composite Materials
3. 2020-present: Member of the Advisory Board, Journal of Materials Chemistry A, Royal Society of Chemistry (RSC)
4. 2019: Organizer for the “Functional Polymers” Symposium, ACS 2019 Southwest Regional and Rocky Mountain Regional Meeting, 11/13/2019-11/16/2019, EI Paso, Texas.
5. 2019: Member of the Physical Chemistry Search Committee, Department of Chemistry and Biochemistry, UT Dallas
6. 2018-present: Member of the Chemical Engineering Program Development Committee, UT Dallas
7. 2018-present: Member of the Program Review Committee, UT Dallas
8. 2018-present: Member of the University’s Research Integrity Committee, UT Dallas
9. 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
10. 2018: Member of Ad Hoc Committee for Mid-Probationary Review for one faculty in the Department of Bioengineering, UT Dallas
11. 2017: Member of Ad Hoc Committee for Mid-Probationary Review for one faculty in the Department of Bioengineering, UT Dallas
12. Chair of Ad Hoc Committee for Mid-Probationary Review for one faculty in the Department of Bioengineering, UT Dallas
13. 2016: Organizer for the “Functional Polymers” Symposium, 2016 SWRM Regional Meeting, Galveston, TX, November 10-13, 2016
14. 2016: Organizer for the “Texas Soft Matter Meeting”, University of Texas at Dallas, 08/12/2016
15. 2016-present: Member of the AES Advisory Committee, UT Dallas
16. 2016-present: Member of the President’s Teaching Excellence Award Committee, UT Dallas
17. 2016-present: Member of the Provost Award’s for Excellence in Undergraduate Mentoring Committee, UT Dallas
18. 2016: Organizer for the “Polymer-Related Energy Conversion & Storage” symposium, 251st ACS National Meeting & Exposition, San Diego, CA, March 13-17, 2016
19. 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
20. 2013-2015: Member of the Editorial Advisory Board for Macromolecules and ACS Macro Letters
21. 2013-2014: Chair of the DFW-ACS Awards Committee
22. 2011-2015: Member of the DFW-ACS Awards Committee
23. 2011-present: Graduate Advisor, Department of Chemistry, UT Dallas
24. 2011: Member of the Search Committee for the Dean of the School of Natural Sciences and Mathematics
25. 2011: Member of the Search Committee for an Assistant professor in Polymers/Materials Science
26. 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