

Arsalan Mirjafari, Ph.D.**PROFESSIONAL EXPERIENCES**

Associate Professor of Chemistry, Department of Chemistry & Physics, Florida Gulf Coast University
08/2017-present.

Assistant Professor of Chemistry, Department of Chemistry & Physics, Florida Gulf Coast University
08/2012-08/2017.

Department of Chemistry, University of South Alabama 09/2010-08/2012
Postdoctoral Research Associate; Mentor: James H. Davis, Jr.

Assistant Professor of Organic Chemistry, Department of Chemistry, University of Isfahan
02.2010-08-2010

QUILL Research Centre, Queen's University of Belfast, Belfast, UK.

07.2008-12.2008 Visiting Researcher; Mentor: Robin D. Rogers

Graduate Research Assistant, Department of Chemistry, University of Isfahan 09/2000-07/2005

EDUCATION

Department of Chemistry, University of Isfahan, Isfahan, Iran. Grad. date: 07/2009
Ph.D. in Organic Chemistry

- Dissertation: Microwave-promoted Protection of Alcohols to Alkoxyethyl Ethers and Their Direct Transformation to Different Functionalities using Ionic Liquids.
- Advisors: Ahmad Reza Khosropour

Department of Chemistry, University of Isfahan, Isfahan, Iran. Grad. date: 04/2003
Master of Science in Organic Chemistry

- Thesis: The Investigation of Photochemical Reaction of Some 1,4-dihydropyridine Derivatives in Solid State.
- Advisor: Hamidreza Memarian

Department of Chemistry, University of Isfahan, Isfahan, Iran. Grad. date: 02/2000
Bachelor of Science in Chemistry.

RESEARCH FUNDING

1. **SWFL Community Foundation: PI;** Combating Climate Change in SWFL via a Summer Research Program for high School students; \$19,769; 2020.
2. **The Consortium for Medical Marijuana Clinical Outcomes Research: coPI;** Rapid identification and quantification of heavy metals and microplastics in CBD oil; \$65,643; 2019.
3. **National Science Foundation–Major Research Instrumentations (MRI): coPI;** MRI: Acquisition of a Single Crystal X-Ray Diffractometer to Enhance Undergraduate Research and Education; \$164,000; (CHE-1919785); 2019.
4. **ACS Petroleum Research Fund–Undergraduate Research (UR) Grants: PI;** Click Synthesis and Physicochemical Characterization of Amphiphile Ionic Liquids with Enhanced Fluidity and Diverse Functionalities; \$70,000; 2018.
5. **National Science Foundation–Major Research Instrumentations (MRI): PI;** MRI: Acquisition of a 400 MHz NMR Spectrometer to Support Undergraduate Research and Chemical Education at Florida Gulf Coast University; \$274,466; (CHE-1530959); 2015.
6. **Communities in Transition Initiative: PI;** Title: Protecting Southwest Florida from Chemical Disasters during Hurricanes: A Green Chemistry/Outreach Approach; \$50,000; 2018 and 2019.

7. **STEM Undergraduate Research Support–Brodie Scholarship:** Mentor; three students; Title: "Click" Synthesis of a series of lipidic ionic liquids; Amount: \$30,000; Status: Funded; 2015–2017.

AWARDS

- FGCU Student Success Champion, 2019.
- FGCU Junior Faculty Scholarship Excellence Award, 2015.
- Graduate Student Excellence Award, University of Isfahan, Isfahan, Iran.

REPRESENTATIVE TRAINEES:

	Time in Lab/Major	Current Position
Manual Sanchez Zayas	2014/BA Chemistry	PhD student (Chemistry), UC Santa Barbara
Stephen Nestor	2015/BS Biochemistry	PhD student (Chemistry), Boston Univ.
Jamie C. Gaiter	2016/BS Biology & Chemistry	PhD student (Chemistry), Carnegie Mellon Univ.
Samuel Minkowicz	2015/BS Biology and Math	PhD student (Neuroscience) Northwestern Univ.
Melissa Reardon	2016/BS Biology	PhD student (Chemistry), UT Arlington
Taha Hmissa	2016/BS Biochemistry	MD/PhD student, Florida State Univ.
Noah Cyr	2016/BS Biochemistry	PhD student (Chemistry) at Univ. of Wisconsin–Madison
Grace Anderson	2017/BS Biochemistry	Goldwater Scholar; REU at MIT Materials Research Lab

PUBLICATIONS

(*denotes undergraduate student co-authors)

Independent works at FGCU

1. Noah Cyr,* Matthias Zeller, Patrick C. Hillesheim and Arsalan Mirjafari, Structure of 1,2-dimethyl-1H-imidazol-3-ium benzenesulfonate • 1,2-dimethylimidazole Co-crystal. Under review in *IUCrData*, **2020**.
2. Grace Anderson,* Arsalan Mirjafari, Matthias Zeller and Patrick C. Hillesheim, Under review in *IUCrData*, **2020**.
3. J. E. Muller II,* L. R. Osborn,* J. R. Traver,* P. C. Hillesheim, M. Zeller and A. Mirjafari, 2-(Octadecylsulfanyl)-1,3-thiazole. *IUCrData* **2020**, 5, x200170.
4. D. J. Siegel,* A. N. Howarth,* J. R. Traver,* P. C. Hillesheim, M. Zeller and A. Mirjafari, 2,2'-[Methylenebis(sulfaneyl)]bis(pyridine 1-oxide). *IUCrData* **2020**, 5, x200171.
5. R. D. Burton,* D. J. Siegel,* J. E. Muller II,* M. Regner,* Y. Sheng, G. J. McManus, A. Mirjafari, From gene delivery agents to ionic liquids: The impacts of cation structure and anion identity on liquefaction. *J. Mol. Liq.* **2019**, 296, 111758
6. Z. Schultz,* J. C. Gaitor,* R. D. Burton,* M. Regner,* Y. Sheng, A. Mirjafari, Phosphorodithioate-functionalized ionic liquids: Synthesis and physicochemical properties characterization. *J. Mol. Liq.* **2019**, 276, 334-337.
7. T. Hmissa,* X. Zhang, N. R. Dhumal, G. J. McManus, X. Zhou, H. N. Nulwala, A. Mirjafari, Autocatalytic synthesis of bifluoride ionic liquids by SuFEx click chemistry. *Angew. Chem. Int. Ed.* **2018**, 57, 16005-16009 (cited by K.B. Sharpless *et al.*).

8. A. Mirjafari, Ionic liquid syntheses via click chemistry: Expeditious routes toward versatile functional materials. *Chem. Commun.* **2018**, *54*, 2944-2961; **Invited contribution**.
9. H. N. Nulwala, A. Mirjafari, X. Zhou, Ionic liquids and poly(ionic liquids) for 3D printing – a focused mini-review. *Eur. Polym. J.* **2018**, *108*, 390-398; **Invited contribution**.
10. J. Fouchet, B. Heinrich, M. L'Her, E. Voirin, L. Karmazin, C. Bailly, R. Welter, A. Mirjafari, L. Douce, Heterogeneous microwave-assisted Ullmann type methodology for synthesis of rigid-core ionic liquid crystals. *New J. Chem.* **2018**, *42*, 10421-10431.
11. S. T. Nestor,* A. N Hawkins,* X. Xhani,* R. E. Sykora, J. X. Mao, K. Nam, G. J. McManus, A. Mirjafari, Studies on solubility and S-alkylation of 2-thiouracil in ionic liquids. *J. Mol. Liq.* **2018**, *265*, 463-467.
12. N. R. Dhumal, A. Mirjafari, H. J. Kim, Deconvolution of conformational equilibria in methimazolium-based ionic liquid ion pair: Infrared spectroscopic and computational study. *J. Mol. Liq.* **2018**, *266*, 194-202.
13. T. Hmissa,* L. L Mathivathanan, A. P. Thompson,* A. Mirjafari, 1-Methyl-1H-imidazol-3-ium methanesulfonate. *IUCrData* **2018**, *3*, x181781.
14. K. Sinclair,* A. Mirjafari, S. Coticone, A tale of two spices: Differential discrimination between the chemical properties of saffron and turmeric in a forensic chemistry laboratory. *Chem. Educator* **2018**, *23*, 143-144.
15. J. C. Gaitor,* L. M. Paul,* M. M. Reardon,* T. Hmissa,* S. Minkowicz,* M. Regner,* Y. Sheng, S. F. Michael, S. Isern, A. Mirjafari, Ionic liquids with thioether motifs as synthetic cationic lipids for gene delivery. *Chem. Commun.* **2017**, *53*, 8328-8331; **Cover article candidate**.
16. J. T. Reilly, M. A. Coats, M. M. Reardon,* A. Mirjafari, Study of biocatalytic activity of histidine ammonia lyase in protic ionic liquids. *J. Mol. Liq.* **2017**, *248*, 830-832.
17. S. T. Nestor,* B. Heinrich, R. A. Sykora, X. Zhang, G. J. McManus, L. Douce, A. Mirjafari, Methimazolium-based ionic liquid crystals: Emergence of mesomorphic properties *via* a sulfur motif. *Tetrahedron* **2017**, *73*, 5456-5460.
18. A.S. Thigpen,* S. T. Nestor,* R. A. O'Brien, S. Minkowicz,* Y. Sheng, J. H. Davis, Jr., K. N. West, A. Mirjafari, Thioether-functionalized picolinium ionic liquids: Synthesis, physical properties and computational studies. *New J. Chem.* **2017**, *41*, 1625-1630.
19. R. A. O'Brien, M. Sanchez Zayas,* S. T. Nestor,* J. C. Gaitor,* R. E. Sykora, L. M. Paul,* F. A. Edhegard,* S. Minkowicz,* Y. Sheng, S. F. Michael, S. Isern, A. Mirjafari, Biomimetic design of protic lipidic ionic liquids with enhanced fluidity. *New J. Chem.* **2016**, *40*, 7795-7803.
20. M. Sanchez Zayas,* S. T. Nestor,* J. C. Gaitor,* M. M. Reardon,* A. Mirjafari, "Click" synthesis of mercaptosilyl-functionalized ionic liquids via thiol-ene chemistry for use as hydrophobic surface coating agents. *ECS Trans.* **2016**, *75*, 191-198; **Invited contribution**.
21. M. Sanchez Zayas,* J. C. Gaitor,* S. T. Nestor,* S. Minkowicz,* Y. Sheng, A. Mirjafari, Bifunctional hydrophobic ionic liquids: Facile synthesis by thiol-ene "click" chemistry. *Green Chem.* **2016**, *18*, 2443-2452.
22. A. Mirjafari, R.A. O'Brien, J. H. Davis Jr., Synthesis and properties of lipid-inspired ionic liquids. In *Ionic Liquids in Lipid Processing and Analysis*, X. Xu, Z. Guo, L.-Z. Cheng (Eds.), The American Oil Chemists' Society Press, Urbana, IL, **2016**, *6*, pp 205-223; **Invited contribution**.
23. B. A. Bruan,* J. L. Bradfield,* C. B. Henderson,* N. Mobarrez, Y. Sheng, R. A. O'Brien, A. C. Stenson, J. H. Davis, Jr., A. Mirjafari, Click chemistry mediated synthesis of bio-inspired phosphonyl-functionalized ionic liquids. *Green Chem.* **2015**, *17*, 1259-1268.
24. J. C. Gaitor,* M. Sanchez Zayas,* D. J. Myrthil,* F. White,* J. M. Hendrich,* R. E. Sykora, R. A. O'Brien, J. T. Reilly, A. Mirjafari, Crystal structure of a methimazole-based ionic liquid. *Acta Cryst.* **2015**, *E71*, o1008-o1009.
25. B. A. Bruan,* J. L. Bradfield,* F. White,* J. Hendrich,* R. E. Sykora, A. Mirjafari, Crystal structure of triphenyl(vinyl)phosphonium tetraphenylborate, *Acta Cryst.* **2014**, *E70*, o1143.
26. A. Mirjafari, R. A. O'Brien, K. N. West, J. H. Davis, Jr., Synthesis of novel lipid-inspired ionic liquids *via* thiol-ene chemistry: Profound solvent effect on reaction pathway. *Chem. Eur. J.* **2014**, *20*, 7586-7580 (selected as the Hot Topic Paper).

27. J. L. McDonald,* R. E. Sykora, P. Hixon,* A. Mirjafari, J. H. Davis, Jr., Impact of water on CO₂ capture by amino acid ionic liquids. *Environ. Chem. Lett.* **2014**, *12*, 201-208.
28. A. Mirjafari, Direct synthesis of 2,4,5-trisubstituted imidazoles from alcohols and α -hydroxyketones by microwave, *Environ. Chem. Lett.* **2014**, *12*, 177-183.
29. J. Noei, A. Mirjafari, Ionic liquid-induced conversion of methoxymethyl-protected alcohols into nitriles and iodides using [Hmim][NO₃]. *Tetrahedron Lett.* **2014**, *55*, 4424-4426.
30. R. A. O'Brien, C. W. West, B. E. Hollingsworth,* A.C. Stenson, C. B. Henderson,* A. Mirjafari, N. Mobarrez, K. N. West, K. L. Matsson,* E. A. Salter, A. Wierzbicki, J. H. Davis Jr., A simple and rapid route to novel tetra(4-thiaalkyl)ammonium bromides, *RSC Adv.* **2013**, *3*, 24612-24617.
31. S. M. Murry,** T. K. Zimlich,* A. Mirjafari, R. A. O'Brien, J. H. Davis Jr., K. N. West, Thermophysical properties of imidazolium-based lipidic ionic liquids. *J. Chem. Eng. Data* **2013**, *58*, 1516-1522.
32. B. Mortazavi, A. Horel, J. S. Anders, A. Mirjafari, M. J. Beazleya,* P. A. Sobeckya,* Enhancing the biodegradation of oil in sandy sediments with choline: A naturally methylated nitrogen compound. *Environ. Pollut.* **2013**, *182*, 53-62.
33. A. Mirjafari, L. Pham,* P. J. Smith,* R. E. Sykora, J. H. Davis Jr., Molecular co-crystal structure of 1,10-phenanthroline with boric acid: novel aza-aromatic complex. *Acta Cryst.* **2013**, *E69*, o1067–o1068.
34. W. M. Reichert, A. Mirjafari, T. Goode,* N. G. Williams,* M. La,* V. Ho,* M. Yoder,* J. H. Davis, Jr., Synthesis of long chain Brønsted acidic ionic liquids, *ECS Trans.* **2013**, *50*, 623-630; **Invited contribution.**
35. A. Mirjafari, R.A. O'Brien, S. M. Murray,* K. L. Matsson,* N. Mobarrez,* K.N. West, J. H. Davis Jr., Lipid-inspired ionic liquids containing long-chain appendages: Novel class of biomaterials with attractive properties and applications. *ACS Symp. Ser.* **2012**, *9*, pp 199-216; **Invited contribution.**
36. W. M. Reichert, A. Mirjafari, J. H. Davis, Jr., T. Goode,* N. G. Williams,* V. Ho,* M. Yoder,* M. La,* Degradation of chitin utilizing acid functionalized ionic liquids technology. *ACS Symp. Ser.* **2012**, *8*, pp 189-198 (Invited Book Chapter).

Postdoctoral works

37. C. G. Cassity,* A. Mirjafari, N. Mobarrez,* K. J. Strickland,* R. A. O'Brien, J. H. Davis, Jr., Ionic liquids of superior thermal stability, *Chem. Commun.* **2013**, *49*, 7590-7592; **highlighted in C&EN News, August 12, 2013, Volume 91, p 27, "Ionic Liquids at High Temps"**.
38. A. Mirjafari, L. N. Pham,* J. R. McCabe, N. Mobarrez, E. A. Salter, A. Wierzbicki, K. N. West, R. E. Sykora, J. H. Davis Jr., Building a bridge between aprotic and protic ionic liquids. *RSC Adv.* **2013**, *3*, 337-340.
39. R. A. O'Brien, A. Mirjafari, K. L. Matsson,* S. M. Murray,** N. Mobarrez,** J. H. Davis Jr., K. N. West, The effect of sulfur position on the melting points of lipidic 1-methyl-3-thiaalkylimidazolium ionic liquids. *J. Phys. Chem. B* **2014**, *118*, 10232-10239.
40. M. -L. Kwan, A. Mirjafari, J. R. McCabe,** R. A. O'Brien, D. F. Essi IV,* L. Baum,* K. N. West, J. H. Davis, Jr., Synthesis and thermophysical properties of ionic liquids: Cyclopropyl moieties versus olefins as T_m-reducing elements in lipid-inspired ionic liquids. *Tetrahedron Lett.* **2013**, *54*, 12-14.
41. A. Mirjafari, S. M. Murry,** R. A. O'Brien, A. C. Stenson, K. N. West, J. H. Davis Jr., Structure-based tuning of T_m in lipid-like ionic liquids. Insights from Tf₂N⁻ salts of gene transfection agents. *Chem. Commun.* **2012**, *48*, 7522-7524.
42. R. A. O'Brien, A. Mirjafari, V. Jajam,** E. N. Capley,** A. C. Stenson, K. N. West, J. H. Davis Jr., Functionalized ionic liquids with highly polar polyhydroxylated appendages and their rapid synthesis via thiol-ene click chemistry. *Tetrahedron Lett.* **2011**, *52*, 5173-5175.
43. S. C. Dorman, R. A. O'Brien, A. T. Lewis,* E. A. Salter, A. Wierzbicki, P. W. Hixon,* R. E. Sykora, A. Mirjafari, J. H. Davis Jr., A new building block for electroactive organic materials? Synthesis, cyclic voltammetry, single crystal X-ray structure, and DFT treatment of a unique boron-based viologen. *Chem. Commun.* **2011**, *47*, 9072-9074.

44. A. Mirjafari, N. Mobarrez,* R. A. O'Brien, J. H. Davis, Jr., J. Noei, Microwave-promoted one-pot conversion of alcohols to oximes using 1-methylimidazolium nitrate, [Hmim][NO₃], as a green promoter and medium. *C. R. Chimie* **2011**, *14*, 1065-1070.

QUILL work

45. S.Y. Choi, H. Rodríguez, A. Mirjafari, D. F. Gilpin, S. McGrath, K. R. Malcolm, M. M. Tunney, R. D. Rogers, T. McNally, Dual functional ionic liquids as plasticizers and anti-microbial agents for medical polymers. *Green Chem.* **2011**, *13*, 1527-1535.

Graduate Works

46. J. Noei, A.R. Khosropour, A. Mirjafari, The combination of 1-butyl-3-methylimidazolium bromide and Trichloro(trifluoromethanesulfonato)titanium(IV) as new protocol for the synthesis of aryl nitrile. *Bull. Korean Chem. Soc.* **2012**, *33*, 2102-2104.
47. I. Mohammadpoor-Baltork, M. Moghadam, S. Tangestaninejad, V. Mirkhani, M. Soltani, A. Mirjafari, One-pot synthesis of 2,3-disubstituted-2,3-dihydroquinazolin-4(1*H*)-ones using [Hmim][NO₃]: An eco-friendly protocol. *J. Heterocycl. Chem.* **2011**, *48*, 1419-1427.
48. I. Mohammadpoor-Baltork, S. Tangestaninejad, V. Mirkhani, S. Anvar, A. Mirjafari, Microwave-promoted alkynylation-cyclization of 2-aminoaryl ketones: A green strategy for the synthesis of 2,4-disubstituted quinolones. *Synlett* **2011**, *20*, 3104-3112.
49. I. Mohammadpoor-Baltork, A. R. Khosropour, M. Moghadam, S. Tangestaninejad, V. Mirkhani, S. Baghersad, A. Mirjafari, Efficient one-pot synthesis of 2,3-dihydroquinazolin-4(1*H*)-ones from aromatic aldehydes and their one-pot oxidation to quinazolin-4(3*H*)-ones catalyzed by Bi(NO₃)₃·5H₂O: Investigating the role of the catalyst. *C. R. Chimie* **2011**, *14*, 944-952.
50. I. Mohammadpoor-Baltork, M. Moghadam, S. Tangestaninejad, V. Mirkhani, A. Mirjafari, [C₄mim][InCl₄]: An efficient catalyst-medium for alkoxy methylation of alcohols and their interconversion to acetates and TMS-ethers. *C. R. Chimie* **2011**, *14*, 568-579.
51. I. Mohammadpoor-Baltork, M. Moghadam, S. Tangestaninejad, V. Mirkhani, A. Mirjafari, H₃PW₁₂O₄₀@[bmim][FeCl₄]: A Green Catalytic System for Alkoxy methylation of Alcohols and Their One-Pot Interconversion to Acetates and TMS-Ethers. *J. Iran. Chem. Soc.* **2011**, *8*, 513-524.
52. A. Mirjafari, I. Mohammadpoor-Baltork, M. Moghadam, S. Tangestaninejad, V. Mirkhani, Microwave-promoted one-pot conversion of alkoxy methylated protected alcohols into their nitriles, bromides and iodides using [bmim][InCl₄] as a green catalyst. *Tetrahedron Lett.* **2010**, *51*, 3274-3276.
53. I. Mohammadpoor-Baltork, M. Moghadam, S. Tangestaninejad, V. Mirkhani, A. Mirjafari, Microwave-enhanced rapid one-pot deprotection, esterification and silylation of MOM- and EOM-Ethers in [Hmim]HSO₄ as a Brønsted acid ionic liquid. *Monatsh. Chem.* **2010**, *141*, 1083-1088.
54. I. Mohammadpoor-Baltork, M. Moghadam, S. Tangestaninejad, V. Mirkhani, A. Mirjafari, H₃PW₁₂O₄₀-[bmim][FeCl₄]: A novel and green catalyst-medium system for microwave-promoted selective interconversion of methoxymethyl and ethoxymethyl ethers into their nitriles, bromides and iodides. *C. R. Chimie* **2010**, *13*, 1468-1473.
55. A.R. Khosropour, J. Noei, A. Mirjafari, Efficient and green protocol for the synthesis of thioamides in C₆(mim)₂Cl₂ as a dicationic ionic liquid. *J. Iran. Chem. Soc.* **2010**, *7*, 752-758.
56. M. Moghadam, S. Tangestaninejad, V. Mirkhani, Mohammadpoor-Baltork, A. Mirjafari, N.S. Mirbagheri, Multi-wall carbon nanotubes supported molybdenum hexacarbonyl: an efficient and highly reusable catalyst for epoxidation of alkenes with *tert*-butyl hydroperoxide. *J. Mol. Catal. A: Chem.* **2010**, *329*, 44-49.
57. I. Mohammadpoor-Baltork, M. Moghadam, S. Tangestaninejad, V. Mirkhani, A. Mirjafari, 12-Tungstophosphoric acid supported on inorganic oxides as heterogeneous and reusable catalysts for the selective preparation of alkoxy methyl ethers and their deprotections under the different conditions. *Polyhedron* **2008**, *27*, 2612-2624.

58. I. Mohammadpoor-Baltork, M. Moghadam, S. Tangestaninejad, V. Mirkhani, A. Mirjafari, H₃PW₁₂O₄₀: A selective, environmentally benign and reusable catalyst for preparation of methoxymethyl and ethoxymethyl ethers and their deprotection under mild conditions. *Can. J. Chem.* **2008**, *86*, 831-840.
59. H. R. Memarian; A. Mirjafari,** Solid state photochemistry of 1,4-dihydropyridines. *Bioorg. Med. Chem. Lett.* **2005**, *15*, 3423-3425.

SELECTED PRESENTATIONS

(*denotes undergraduate student co-authors)

1. **Invited talk:** A. Mirjafari, Insights into Structure-Property relationships in Thioether-based Amphiphilic Ionic Liquids ACS National Meeting, Philadelphia, PA, March 2020.
2. **Invited talk:** A. Mirjafari, One click away from products: Click chemistry as a powerful tool for the synthesis of ionic liquids for undergraduate chemistry students. Pomona College, January 2020.
3. **Invited talk:** A. Mirjafari, One click away from products: Click chemistry as a powerful tool for the synthesis of ionic liquids for undergraduate chemistry students. ACS National Meeting, Orlando, FL, April 2019.
4. **Invited talk:** A. Mirjafari, Two-stage Collaborative Testing as an Efficient Pedagogical Technique to Transform Introductory Organic Chemistry Courses. 222th 2YC3 Meeting, Orlando, FL, March 2019.
5. **Invited talk:** A. Mirjafari, Ionic Liquids for Addressing Unmet Needs in Energy, Materials and Medicine, Georgia State University, Atlanta, GA, February 2019.
6. **Invited talk:** A. Mirjafari, Click Chemistry as an Expeditious Route toward the Synthesis of Highly-Pure Functional Ionic Liquids. Mizzou, Columbia, MO, November 2018.
7. **Invited talk:** A. Mirjafari, Applications of Click Chemistry in Synthesis of Functional Ionic Liquids, University of Arkansas, AR, March 2018.
8. **Invited talk:** A. Mirjafari, Applications of Click Chemistry in Synthesis of Functional Ionic Liquids, University of Texas Arlington, TX, March 2018.
9. A. Mirjafari, Ionic liquids and click chemistry: A promising combination for development of functional materials with diverse applications. 254th ACS National Meeting, Washington, DC, August 2017, Oral presentation.
10. M. M. Reardon,* A. Mirjafari, Synthesis of drug-based super protic ionic liquids via thiol-ene click chemistry. 254th ACS National Meeting, Washington, DC, August 2017, Poster presentation.
11. J. C. Gaitor,* L. M. Paull,* S. F. Michael, S. Isern, A. Mirjafari, Thiol-yne click chemistry-mediated synthesis of cationic lipids for gene transfection purposes. 253rd ACS National Meeting, San Francisco, CA, April 2017, Oral presentation.
12. S. T. Nestor,* B. Heinrich, R. A. Sykora, L. Douce, A. Mirjafari, Methimazole-based amphiphilic ionic liquid crystals. 253rd ACS National Meeting, San Francisco, CA, April 2017, Oral presentation.
13. **Invited talk:** A. Mirjafari, Biomimetic development of amphiphilic ionic liquids with enhanced fluidity and diverse functionalities. Carnegie Mellon University, Pittsburgh, PA January 13, 2017.
14. A. Mirjafari, M. Sanchez Zayas,* S. T. Nestor,* J. C. Gaitor,* M. M. Reardon,* "Click" Synthesis of mercaptosilyl-functionalized ionic liquids via thiol-ene chemistry for use as hydrophobic surface coating agents. PRiME, Honolulu, HI, 2016. Oral presentation.
15. A. Mirjafari, Biomimetic strategy to develop ionic liquids as amphiphilic self-assembly materials. Gordon Research Conferences on Ionic Liquids. Newry, ME, August 2016, Poster presentation.
16. A. Mirjafari, R. A. O'Brien, R. A. Sykora, M. Sanchez Zayas,* Y. Sheng, Drug-based lipidic ionic liquids: A new class of biomaterials. 251st ACS National Meeting, San Diego, CA, March 2016, Oral presentation.
17. M. Sanchez Zayas, J. C. Gaitor,* S. T. Nestor,* S. Minkowicz,* Y. Sheng, A. Mirjafari, "Click" synthesis of bifunctional ionic liquids via thiol-ene chemistry for surface coating applications. 251st ACS National Meeting, San Diego, CA, March 2016, Poster presentation.
18. **Invited talk:** A. Mirjafari, Biomimetic design of a novel class of lipid-inspired protic ionic liquids with enhanced fluidity. University of South Alabama, Mobile, AL, February 12, 2016.

19. R. A. Braun,* J. L. Bradfield,* R. A. O'Brien, J. H. Davis, A. Mirjafari, Synthesis of bio-Inspired organophosphorous functionalized ionic liquids *via* "click" radical addition. Gordon Research Conference-Ionic Liquids section, Newry, ME, August 2014, Poster presentation.
20. J. L. Bradfield,* P. L. Zamor,* D. J. Myrthil,* A. Mirjafari, Synthesis of methimazole-based lipidic ionic liquids using thiol-ene "click" chemistry. Gordon Research Conference-Ionic Liquids section, Newry, ME, August 2014, Poster presentation.
21. A. Mirjafari, R. A. Braun,* J. N. Lacy,* R. A. O'Brien, J. H. Davis, Jr., Synthesis of bio-inspired organophosphorous functionalized ionic liquids *via* "click" radical addition. 247th ACS National Meeting, Dallas, TX, March 2014, Poster presentation.