

Ellen M. Sletten, PhD

University of California, Los Angeles
Department of Chemistry and Biochemistry
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PROFESSIONAL EXPERIENCE

University of California, Los Angeles, Los Angeles, CA
Assistant Professor, Department of Chemistry and Biochemistry, 2015–present
John McTague Career Development Chair, 2015–present
Member California NanoSystems Institute, 2016–present
Member Jonsson Comprehensive Cancer Center, 2018–present

Massachusetts Institute of Technology, Cambridge, MA
NIH Postdoctoral Fellow, 2012–2015
Advisor: Timothy M. Swager

EDUCATION

University of California, Berkeley, Berkeley, CA, PhD in Chemistry, December 2011
Dissertation title: “Bioorthogonal chemistries for labeling living systems.”
Dissertation advisor: Carolyn R. Bertozzi

Stonehill College, Easton, MA, BS in Chemistry with Honors, *summa cum laude*, May 2006
Thesis title: “A flexible stereospecific synthesis of polyhydroxylated pyrrolizidines from commercially available pyranosides.”
Thesis advisor: Louis J. Liotta

FELLOWSHIPS AND AWARDS

US Delegate to European Society for Organic Chemistry Young Investigator Workshop, 2019
PMSE Young Investigator, 2019
ORGN Young Investigator Symposium Participant, 2019
NIH Director’s New Innovator Award, 2018
Alfred P. Sloan Fellow in Chemistry, 2018
Mercator Fellow (German Research Foundation), 2018
Hellman Fellow, 2018
Glenn T. Seaborg Award, 2018
Thieme Chemistry Journal Award, 2018
ACS-PRF New Doctoral Investigator, 2016
John McTague Career Development Chair, 2015–present
Ruth L. Kirschstein National Research Service Award, 2012–2014
ACS Division of Organic Chemistry Graduate Fellowship, 2009–2010
NSF Graduate Research Fellowship Honorable Mention, 2006, 2007
Barry M. Goldwater Scholar, 2004–2006
NSF Research Experience for Undergraduates in Chemistry Fellow, 2005
Pfizer Summer Undergraduate Research Fellowship Recipient, 2004

PUBLICATIONS

39. Lim, I.; Vian, A.; van de Wouw, H.L.; Day, R.A.; Gomez, C.; Rheingold, A.L.; Campas, O.; **Sletten, E.M.** “Fluorous cyanine dyes for imaging perfluorocarbons in living systems.” *Submitted*.
38. Deshmukh, A.P.; Bailey, A.D.; Forte, L.S.; Shen, C.; **Sletten, E.M.**; Caram, J.C. “Thermodynamic control over molecular aggregate assembly enables tunable excitonic properties across the visible and near-infrared.” *Submitted*.

37. Estabrook, D.A.; Day, R.A.; **Sletten, E.M.** “Nanoemulsions for intracellular delivery: redox-responsive disassembly through cleavable poly(2-oxazoline) surfactants.” *In revision*.
36. Cosco, E.D.; Spearman, A.I.; Ramakrishnan, S.; Ling, J.G.P.; Saccomano, M.; Pengshung, M.; Arus, B.; Wong, K.C.; Glasl, S.; Ntziachristos, V.; Warmer, M.; McLaughlin, R.R.; Bruns, O.T.; **Sletten, E.M.** “Shortwave infrared polymethine fluorophores matched to excitation lasers enable noninvasive, multicolor *in vivo* imaging in real time.” *Nature Chem.* **2020**, Accepted in principle.
35. Day, R.D.; Estabrook, D.A.; Wu, C.; Chapman, J.O.; Togle, A.; **Sletten, E.M.** “Systematic study of perfluorocarbon nanoemulsions stabilized by polymer amphiphiles.” *ACS Applied Mat. Interface.* **2020**. Accepted.
34. Pengshung, M.; Li, J.; Mukadam, F.; Lopez, S.A.; **Sletten, E.M.** “Photophysical tuning of shortwave infrared flavylum heptamethine dyes via substituent placement.” *Org. Lett.* **2020**, DOI: 10.1021/acs.orglett.0c02213.
33. Miller, M.A.; **Sletten, E.M.** “Perfluorocarbons in chemical biology.” *ChemBioChem* **2020**, DOI: 10.1002/cbic.202000297.
32. Pengshung, M.; Neal, P.; Atallah, T.; Kwon, J.; Caram, J.R.; Lopez, S.A.; **Sletten, E.M.** “Silicon incorporation in polymethine dyes.” *Chem. Commun.* **2020**, 56, 6110–6113.
31. Jaye, J.A.; **Sletten, E.M.** “Vinyl iodide containing polymers directly prepared via an iodo-yne polymerization.” *ACS Macro Lett.* **2020**, 9, 410–415.
30. Miller, M.A.; Day, R.D.; Estabrook, D.A.; **Sletten, E.M.** “A reduction-sensitive fluororous fluorogenic coumarin.” *Synlett*, **2020**, 31, 450–454.
Part of the Special Section for the 11th EuCheMS Organic Division Young Investigator Workshop
29. Chen, W.; Cheng, C.-A.; Cosco, E.D.; Ramakrishnan, S.; Lingg, J.G.P.; Bruns, O.T.; Zink, J.I.; **Sletten, E.M.** “Shortwave infrared imaging with J-aggregates stabilized in hollow mesoporous silica nanoparticles.” *J. Am. Chem. Soc.* **2019**, 141, 12475–12480.
28. Jaye, J.A.; **Sletten, E.M.** “Modular and processable fluoropolymers prepared via a safe, mild, iodo-ene polymerization.” *ACS Central Sci.* **2019**, 5, 982–991.
27. Estabrook, D.A.; Ennis, A.F.; Day, R.A.; **Sletten, E.M.** “Controlling nanoemulsion surface chemistry with poly(2-oxazoline) amphiphiles.” *Chem. Sci.* **2019**, 10, 3994–4003.
26. Rodrigues, R.M.; Guan, X.; Iniguez, J.A.; Estabrook, D.A.; Chapman, J.O.; Huang, S.; **Sletten, E.M.**; Liu, C. “Perfluorocarbon nanoemulsion promotes the delivery of reducing equivalents for electricity-driven microbial CO₂ reduction.” *Nature Catalysis* **2019**, 2, 4017–4014.
25. Cao, W.; **Sletten, E.M.** “Fluorescent cyanine dye J-aggregates in the fluororous phase.” *J. Am. Chem. Soc.* **2018**, 140, 2727–2730.
24. Miller, M.A.; **Sletten, E.M.** “A general approach to biocompatible branched fluororous tags for increased solubility in perfluorocarbon solvents.” *Org. Lett.* **2018**, 20, 6850–6854.
Highlighted: Swager, T.M.; Luo, X.-X. “Some like it branched: Fluororous tags for enhanced solubility and biocompatibility.” *Synfacts*, **2019**, 15, 35.
23. Tomlin, F.M.; Gordon, C.G.; Han, Y.; Wu, T.S.; **Sletten, E.M.**; Bertozzi, C.R. “Site specific incorporation of quadricyclane into a protein and photocleavage of the quadricyclane ligation adduct.” *Bioorg. Med. Chem. Lett.* **2018**, 26, 5280–5290.
22. Day, R.A.; Estabrook, D.A.; Logan, J.K.; **Sletten, E.M.** “Fluororous photosensitizers enhance photodynamic therapy with perfluorocarbon nanoemulsions.” *Chem. Commun.* **2017**, 53, 13043–13046.
21. Cosco, E.D.; Caram, J.R.; Bruns, O.T.; Franke, D.; Day, R.A.; Farr, E.P.; Bawendi, M.G.; **Sletten, E.M.** “Flavylum polymethine fluorophores for near- and shortwave infrared imaging.” *Angew. Chem. Int. Ed.* **2017**, 56, 13126–13129.
Highlighted: Schnermann, M.J. “Chemical biology: Organic dyes for deep bioimaging.” *Nature*, **2017**, 551, 176–177.
20. **Sletten, E.M.**; Swager, T.M. “Readily accessible multifunctional fluororous emulsions.” *Chem. Sci.* **2016**, 7, 5091–5097.
19. Niroui, F.; Wang, A.I.; **Sletten, E.M.**; Song, Y.; Kong, J.; Yablonoitch, E.; Swager, T.M.; Lang, J.H.; Bulovic, V. “Tunneling nanoelectromechanical switches based on compressible molecular thin films.” *ACS Nano*, **2015**, 9, 7886–7894.
18. Zarzar, L.D.; Sresht, V.; **Sletten, E.M.**; Kalow, J.A.; Blankschtein, D.; Swager, T.M. “Dynamically reconfigurable complex emulsions via tunable interfacial tensions.” *Nature* **2015**, 518, 520–524.
17. Koo, B.; **Sletten, E.M.**; Swager, T.M. “Efficient synthesis of functionalized poly(3-hexylthiophenes)s via lithium-bromine exchange.” *Macromolecules* **2015**, 48, 229–235.
16. **Sletten, E.M.**; Swager, T.M. “Fluorofluorophores: fluorescent fluororous chemical tools spanning the visible spectrum.” *J. Am. Chem. Soc.* **2014**, 136, 13574–13577.

15. **Sletten, E.M.**; de Almeida, G.; Bertozzi, C.R. "A homologation approach to the synthesis of difluorinated cycloalkynes." *Org. Lett.* **2014**, *16*, 1634–1637.
14. Agarwal, P.; van der Weijden, J.; **Sletten, E.M.**; Rabuka, D.; Bertozzi, C.R. "A Pictet-Spengler ligation for protein chemical modification." *Proc. Natl. Acad. Sci. U.S.A.* **2013**, *110*, 46–51.
13. Gordon, C.G.; Mackey, J.; Jewett, J.C.; **Sletten, E.M.**; Houk, K.N.; Bertozzi, C.R. "Reactivity of biarylazacyclooctynones in copper-free click chemistry." *J. Am. Chem. Soc.* **2012**, *134*, 9199–9208.
12. Yao, J.Z.; Uttamapinant, C.; Poloukhtine, A.; Baskin, J.M.; Codelli, J.A.; **Sletten, E.M.**; Bertozzi, C.R.; Popik, V.V.; Ting, A.Y. "Fluorophore targeting to cellular proteins via enzyme-mediated azide ligation and strain-promoted cycloaddition." *J. Am. Chem. Soc.* **2012**, *134*, 3720–3728.
11. de Almeida, G.; **Sletten, E.M.**; Nakamura, H.; Palaniappan, K.K.; Bertozzi, C.R. "Thiacycloalkynes for Cu-free click chemistry." *Angew. Chem. Int. Ed.* **2012**, *51*, 2443–2447.
10. **Sletten, E.M.**; Bertozzi, C.R. "A bioorthogonal quadricyclane ligation." *J. Am. Chem. Soc.* **2011**, *133*, 17570–17573.
9. **Sletten, E.M.**; Bertozzi, C.R. "From mechanism to mouse: a tale of two bioorthogonal reactions." *Acc. Chem. Res.* **2011**, *44*, 666–676.
8. Kelly, C.B.; Colthart, A.M.; Constant, B.D.; Corning, S.R.; Dubois, L.N.; Genovese, J.T.; Radziewicz, J.L.; **Sletten, E.M.**; Whitaker, K.R.; Tilley, L.J. "Enabling the synthesis of perfluoroalkyl bicyclobutanes via 1,3 γ -silyl elimination." *Org. Lett.* **2011**, *13*, 1646–1649.
7. **Sletten, E.M.**; Nakamura, H.; Jewett, J.C.; Bertozzi, C.R. "Difluorobenzocyclooctyne: synthesis, characterization, and stabilization by β -cyclodextrin." *J. Am. Chem. Soc.* **2010**, *132*, 11799–11805.
6. Chang, P.V.; Dube, D.H.; **Sletten, E.M.**; Bertozzi, C.R. "A strategy for the selective imaging of glycans using caged metabolic precursors." *J. Am. Chem. Soc.* **2010**, *132*, 9516–9518.
5. Jewett, J.C.; **Sletten, E.M.**; Bertozzi, C.R. "Rapid Cu-free click chemistry with readily synthesized biarylazacyclooctynones." *J. Am. Chem. Soc.* **2010**, *132*, 3688–3690.
4. Chang, P.V.*; Prescher, J.A.*; **Sletten, E.M.**; Baskin, J.M.; Miller, I.A.; Agard, N.J.; Lo, A.; Bertozzi, C.R. "Copper-free click chemistry in living animals." *Proc. Natl. Acad. Sci. U.S.A.* **2010**, *107*, 1821–1826.
3. **Sletten, E.M.**; Bertozzi, C.R. "Bioorthogonal chemistry: fishing for selectivity in a sea of functionality." *Angew. Chem. Int. Ed.* **2009**, *48*, 6974–6998.
2. **Sletten, E.M.**; Bertozzi, C.R. "A hydrophilic azacyclooctyne for Cu-free click chemistry." *Org. Lett.* **2008**, *10*, 3097–3099.
1. **Sletten, E.M.**; Liotta, L.J. "A flexible stereospecific synthesis of polyhydroxyated pyrrolizidines from commercially available pyranosides." *J. Org. Chem.* **2006**, *71*, 1335–1343.

PATENTS

16. **Sletten, E.M.**; Estabrook, D.A.; Chapman, J.O. "Compositions and methods for cellular delivery." Filed **2019**.
15. Bruns, O.T.; Cosco, E.D.; Lingg, J.P.; Warmer, M.; Ramakrishnan, S.; Saccomano, M, **Sletten, E.M.** "System and method for real-time multicolor shortwave infrared fluorescence imaging." Filed **2019**. US Provisional: 62/858,440.
14. Bruns, O.T.; Lingg, J.P.; Fuenzalida-Werner, J.P.; Stiel, A.; Warmer, M.; Ramakrishnan, S.; Cosco, E.D.; **Sletten, E.M.** "Method and device for imaging fluorescent proteins in near- and short-wave infrared" Filed **2019**. US Provisional: 62/858,461.
13. **Sletten, E.M.**; Cosco, E.D. "Heterocyclyl polymethine IR chromophores." Filed **2018**. WO2018226720A1.
12. **Sletten, E.M.**; Jaye, J. "Tunable linear fluoropolymers." Filed **2017**. WO2019099884A1.
11. **Sletten, E.M.**; Cosco, E.D. "Heterocyclyl polymethine IR chromophores." Filed **2017**. WO2018201000A1.
10. **Sletten, E.M.**; Pengshung, M. "Disulfide bioconjugation" Filed **2017**. WO2018201000A1
9. **Sletten, E.M.**; Caram, J.; Swager, T.M. "Near and shortwave infrared polymethine dyes." Filed **2017**. WO2018187295A1.
8. Lang, J.H.; Swager, T.M.; Bulovic, V.; Niroui, F.; **Sletten, E.M.** "Tunneling nanoelectromechanical switches and tunable plasmonic nanogaps" Filed **2015**. US95556195B2.
7. Swager, T.M.; Blankschtein, E.D.; Zarzar, L.D.; Sresht, V.; **Sletten, E.M.**; Kalow, J.A. "Compositions and methods for arranging colloid phases." Filed **2015**, WO2016070027 A1.
6. Swager, T.M.; Blankschtein, E.D.; Zarzar, L.D.; Sresht, V.; **Sletten, E.M.**; Kalow, J.A. "Compositions and methods for forming emulsions." Filed **2015**, WO2016070016 A1.
5. Bulović, V.; Lang, J.H.; Lee, H.S.; Swager, T.M.; Andrew, T.L.; D'Asaro, M.E.; Deotare, P.; Muraka, A.; Niroui, F.; **Sletten, E.M.**; Wang, A.I. "Electromechanical device." Filed **2014**, WO2014117161 A8.

4. Bertozzi, C.R.; Agarwal, P.; **Sletten, E.M.** "Pictet-Spengler ligation for protein chemical modification." Filed **2013**, US Patent: W02014078733 A1.
3. **Sletten, E.M.**; Bertozzi, C.R. "Compositions and methods for quadricyclane modification of biomolecules." Filed **2012**, US Patent: US20130244267 A1.
2. Jewett, J.C.; **Sletten, E.M.**; Bertozzi, C.R. "Compositions and methods for modification of biomolecules." Filed **2010**, US Patent: US8519122 B2.
1. Bertozzi, C.R.; Agard, N.J.; Prescher, J.A.; Baskin, J.M.; **Sletten, E.M.** "Compositions and methods for modification of biomolecules." Filed **2008**, US Patent: US8431558 B2.

PRESENTATIONS (INDEPENDENT CAREER, E.M. SLETTEN PRESENTING ONLY)

40. **Sletten, E.M.** "Polymethine fluorophores for *in vivo* shortwave infrared imaging." Princeton University, Princeton, NJ, March 5, 2020. (oral, invited)
39. **Sletten, E.M.** "Polymethine fluorophores for *in vivo* shortwave infrared imaging." University of North Carolina, Chapel Hill, NC, February 20, 2020. (oral, invited)
38. **Sletten, E.M.** "Polymethine fluorophores for *in vivo* shortwave infrared imaging." University of Washington, Seattle, WA, February 6, 2020. (oral, invited)
37. **Sletten, E.M.** "Beyond the NIR: *in vivo* imaging with molecules and materials that emit above 1000 nm" University of Arizona, Tucson, AZ, September 12, 2019. (oral, invited)
36. **Sletten, E.M.** "Flavylium polymethine fluorophores for imaging in the shortwave infrared region." 258th ACS National Meeting, San Diego, CA, August 27, 2019. (oral, invited)
35. **Sletten, E.M.** "Versatile perfluorocarbon nanotheranostics stabilized by poly(2-oxazoline) amphiphiles." 258th ACS National Meeting, San Diego, CA, August 27, 2019. (oral, invited)
34. **Sletten, E.M.** "Fluorous ponytails, polymers, and assemblies." International Symposium on Fluorous Technologies, Shanghai, China, August 9, 2019. (oral, invited)
33. **Sletten, E.M.** "Multiplexed *in vivo* imaging with shortwave infrared fluorophores." Photochemistry Gordon Research Conference, Stonehill College, Easton, MA, July 15, 2019. (oral, invited)
32. **Sletten, E.M.** "Multiplexed *in vivo* imaging with shortwave infrared fluorophores." European Society of Organic Chemistry Young Investigator Workshop, Vienna, Austria, July 12, 2019. (oral, invited, 1 of 2 US delegates)
31. **Sletten, E.M.** "Beyond the NIR: *in vivo* imaging with molecules and materials that emit above 1000 nm." Helmholtz Pioneer Campus, Munich, Germany, July 8, 2019. (oral, invited)
30. **Sletten, E.M.** "Multiplexed *in vivo* imaging with shortwave infrared fluorophores." GreAter Los Angeles Chemical Biology Day, University of Southern California, June, 21, 2019. (oral, invited)
29. **Sletten, E.M.** "Multiplexed *in vivo* imaging with shortwave infrared fluorophores." Bioorganic Gordon Research Conference, Proctor Academy, Andover, NH, June, 10, 2019. (oral, invited)
28. **Sletten, E.M.** "Multifunctional perfluorocarbon therapeutics." California Polytechnic Institute, San Luis Obispo, CA, May 17, 2019. (oral, invited)
27. **Sletten, E.M.** "Beyond the near-infrared: Biocompatible contrast agents for shortwave infrared imaging." University of Illinois, Urbana-Champaign, March 7, 2019. (oral, invited)
26. **Sletten, E.M.** "Perfluorocarbon nanoemulsion therapeutics and diagnostics." 12th Annual International Symposium on Nanobiotechnology. Singapore, Singapore, February 28, 2019. (oral, invited)
25. **Sletten, E.M.** "Versatile perfluorocarbon nanotherapeutics." University of California, Los Angeles, February 21, 2019. (oral, invited)
24. **Sletten, E.M.** "Perfluorocarbon nanoemulsion theranostics." Jonsson Comprehensive Cancer Center, University of California, Los Angeles, February 7, 2019. (oral, invited)
23. **Sletten, E.M.** "Beyond the NIR: Polymethine fluorophores for shortwave infrared imaging." Kharasch Mini Symposium, University of Chicago, February 4, 2019. (oral, invited)
22. **Sletten, E.M.** "Flavylium polymethine fluorophores for imaging in the shortwave infrared." Advanced Imaging Methods Workshop, Berkeley, CA, January 31, 2019. (oral, invited)
21. **Sletten, E.M.** "Flavylium polymethine fluorophores for imaging in the shortwave infrared region." American Society for Cell Biology National Meeting, San Diego, CA, December 9, 2018. (oral, invited)
20. **Sletten, E.M.** "Enhancing therapeutics and diagnostics with fluorine." Truman State University, November 16, 2018. (oral, student invited)
19. **Sletten, E.M.** "Versatile perfluorocarbon nanotheranostics." University of California, Santa Barbara, November 13, 2018. (oral, invited)
18. **Sletten, E.M.** "Versatile perfluorocarbon nanotheranostics." University of California, Los Angeles, November 6, 2018. (oral, promotion talk)

17. **Sletten, E.M.** “Flavylium polymethine fluorophores for imaging in the shortwave infrared region.” ProbeFest 2018, Janelia Research Campus, Ashburn, VA, October 12, 2018. (oral, invited)
16. **Sletten, E.M.** “Shortwave infrared fluorophores for illuminating biological processes.” International Chemical Biology Symposium, Vancouver, Canada, September 27, 2018. (oral)
15. **Sletten, E.M.** “Perfluorocarbon nanoemulsion theranostics stabilized by poly(oxazoline) amphiphiles.” Polymers in Medicine and Biology, Napa, CA, September 11, 2018. (oral, invited)
14. **Sletten, E.M.** “Perfluorocarbon-based nanotheranostics.” 256th ACS National Meeting, Boston, MA, August 22, 2018. (oral, invited)
13. **Sletten, E.M.** “Flavylium heptamethine fluorophores for shortwave infrared imaging.” 256th ACS National Meeting, Boston, MA, August 20, 2018. (oral)
12. **Sletten, E.M.** “Responsive fluororous polymeric materials.” 256th ACS National Meeting, Boston, MA, August 19, 2018. (oral)
11. Estabrook, D.A.; Ennis, A.F.; **Sletten, E.M.** “Custom poly(oxazoline)surfactants for the stabilization of perfluorocarbon nanoemulsions.” Bioinspired Materials Gordon Research Conference, Les Diablerets, CH, June 28, 2018. (poster)
10. Cosco, E.D.; Caram, J.R.; Bruns, O.T.; Franke, D.; McLaughlin, R.R.; Bawendi, M.G.; **Sletten, E.M.** “Flavylium polymethine fluorophores for shortwave infrared imaging.” Bioorganic Gordon Research Conference, Andover, NH, June 14, 2018. (poster)
9. **Sletten, E.M.**; Day, R.; Estabrook, D.; Cosco, E.; McLaughlin, R.; Logan, J. “Perfluorocarbon nanoemulsions for imaging and phototherapy.” Biennial Meeting American Society for Photobiology, Tampa, FL, May 13, 2018. (invited, oral)
8. **Sletten, E.M.** “Enhancing therapeutics and diagnostics with fluorine.” Seaborg Award Banquet, Los Angeles, CA, May 5, 2018. (award address, oral)
7. **Sletten, E.M.** “Perfluorocarbon nanoemulsions for photomedicine.” Claremont College, Claremont, CA, November 14, 2017. (invited, oral)
6. **Sletten, E.M.** “Enhancing therapeutics and diagnostics with fluorine.” Oberlin College, Oberlin, OH, October 4, 2017. (invited, oral)
5. Day, R.A.; Estabrook, D.A.; **Sletten, E.M.** “Exploiting the fluororous phase to readily access multifunctional nanoemulsions.” 254th ACS National Meeting, Washington, DC, August 23, 2017. (invited, oral)
4. **Sletten, E.M.** Day, R.A.; Estabrook, D.A.; Gietzelt, J.M. “Perfluorocarbon nanoemulsions for photomedicine.” International Symposium on Fluororous Technologies, Boston, MA, August 9, 2017. (invited, oral)
3. Estabrook, D.A.; **Sletten, E.M.** “Custom poly(oxazoline) surfactants for the stabilization of perfluorocarbon nanoemulsions.” Polymer Chemistry Gordon Research Conference, South Hadley, MA, June 2017. (poster)
2. **Sletten, E.M.** “Enhancing nanotherapeutics with fluorine.” California State University, Los Angeles, November 29, 2016. (invited, oral)
1. Cosco, E.D.; Caram, J.; Bruns, O.T.; Swager, T.M.; Bawendi, M, **Sletten, E.M.** “New cyanine dyes for imaging in the NIR and SWIR.” Bioorganic Gordon Research Conference, Andover, NH, June 2016. (poster)

SERVICE AND OUTREACH

Created a “PHOTONbooth” to teach young students about fluorescence, 2017–current

Discussion leader at Gordon Research Conferences, 2018 (Bioorganic; Bioinspired materials)

Member of mentoring panel at Bioinspired Materials Gordon Research Seminar, 2018

Session chair at conferences (ACS National Meetings, International Symposium on Fluororous Technologies, Polymers in Medicine and Biology, ProbeFest, 2017–2019)

Ad-hoc reviewer for NSF and ACS PRF grants

Research mentor for Santa Monica Community College students, 2016–2019

Research mentor for student from historically black colleges and universities, 2018

Editorial advisory board for: *Polymer Chem.*, *Macromolecules*, *Chem. Commun.*

Reviewer for: *ACS Nano*, *ACS Central Science*, *Chem*, *Nature Commun.*, *Proc. Natl. Acad. Sci. U.S.A.*, *Chem. Commun.*, *Tetrahedron Rev.*, *Angew. Chem. Int. Ed.*, *J. Am. Chem. Soc.*, *Bioconjugate Chem.*,

Macromolecules, *Eur. J. Org. Chem.*, *ACS Macro Letters*, *ChemBioChem*, *Chem. Sci.*

Contributor to *Synfacts*, 2012–2013