

# Prof. Cody Ross Pitts

E-mail: [crpitts@ucdavis.edu](mailto:crpitts@ucdavis.edu)

## Education and Training

2006-2010	<b>BS in Chemistry with Honors</b> <i>Minors in Physics and Musical Theatre</i>	<b>Monmouth University</b>
2012-2017	<b>Ph.D. in Organic Chemistry</b>	<b>Johns Hopkins University</b>
2017-2019	<b>ETH Postdoctoral Fellow</b>	<b>ETH Zürich</b>
2019-2021	<b>NIH Postdoctoral Fellow</b>	<b>The Scripps Research Institute</b>

## Work Experience

2008-2010	<b>Research in Organic Chemistry</b> <i>Undergraduate Student, Monmouth University</i> <i>Honor's Thesis: Microwave-Assisted Esterification via Polymer-Supported Mukaiyama Reagent</i> <i>Advisor: Professor Massimiliano Lamberto</i>	
2007-present	<b>Actor (Film, Television, and Theatre)</b> <i>Screen Actor's Guild-American Federation of Television and Radio Artists</i>	
2010-2011	<b>Emergency Medical Technician</b> <i>EMT-B, Nelson Ambulance</i>	
2012-2017	<b>Research in Organic Chemistry</b> <i>Graduate Student, Johns Hopkins University</i> <i>Ph.D. Dissertation: A Renaissance of Radical Fluorination Chemistry: Methods, Mechanisms, and Advances in Selectivity</i> <i>Advisor: Professor Thomas Lectka</i>	
2017-2019	<b>Research in Inorganic Chemistry</b> <i>ETH Postdoctoral Fellow, ETH Zürich</i> <i>Focus: Development of Inorganic Fluorination Methods and Reagents</i> <i>Advisor: Professor Antonio Togni</i>	
2019-2021	<b>Research in Organic Chemistry</b> <i>NIH Postdoctoral Fellow, The Scripps Research Institute</i> <i>Focus: Total Synthesis of Natural Products</i> <i>Advisor: Professor Phil S. Baran</i>	
2021-present	<b>Assistant Professor of Organic Chemistry</b> <i>University of California, Davis</i>	

## Publications

39. Kraemer, Y.; Buldt, J. A.;<sup>†</sup> Kong, W.-Y.;<sup>†</sup> Stephens, A. M.; Ragan, A. N.; Park, S.; Haidar, Z. C.; Patel, A. H.; Shey, R.; Dagan, R.; McLoughlin, C. P.; Fettinger, J. C.; Tantillo, D. J.;\* **Pitts, C. R.\*** "Overcoming a Radical Polarity Mismatch in Strain-Release Pentafluorosulfanylation of [1.1.0]Bicyclobutanes: An Entryway to Sulfone- and Carbonyl-Containing SF<sub>5</sub>-Cyclobutanes" *Angew. Chem. Int. Ed.* **2024**, e202319930.

38. Wang, M.; Rowshanpour, R.; Guan, L.; Ruskin, J.; Nguyen, P. M.; Wang, Y.; Zhang, Q. A.; Liu, R.; Ling, B.; Woltornist, R.; Stephens, A. M.; Prasad, A.; Dudding, T.;\* Lectka, T.;\* **Pitts, C. R.\*** "Competition between C–C and C–H Bond Fluorination: A Continuum of Electron Transfer and Hydrogen Atom Transfer Mechanisms" *J. Am. Chem. Soc.* **2023**, *145*, 22442-22455.

37. Kraemer, Y.;<sup>†</sup> Ghiazza, C.;<sup>†</sup> Ragan, A. N.; Ni, S.; Lutz, S.; Neumann, E. K.; Fettinger, J. C.; Nöthling, N.; Goddard, R.; Cornella, J.;\* **Pitts, C. R.\*** "Strain-Release Pentafluorosulfanylation and Tetrafluoro(aryl)sulfanylation of [1.1.1]Propellane: Reactivity and Structural Insight" *Angew. Chem. Int. Ed.* **2022**, *61*, e202211892.

36. Ragan, A. N.;<sup>†</sup> Kraemer, Y.;<sup>†</sup> Kong, W.-Y.;<sup>†</sup> Prasad, S.; Tantillo, D. J.;\* **Pitts, C. R.\*** "Evidence for C–F Bond Formation through Formal Reductive Elimination from Tellurium(VI)" *Angew. Chem. Int. Ed.* **2022**, *61*, e202208046.

35. Kraemer, Y.; Bergman, E. N.; Togni, A.;\* **Pitts, C. R.\*** "Oxidative Fluorination of Heteroatoms Enabled by Trichloroisocyanuric Acid and Potassium Fluoride" *Angew. Chem. Int. Ed.* **2022**, *61*, e202205088.

34. Hoffmann, K.; Wiesner, A.; Müller, C.; Steinhauer, S.; Beckers, H.; Kazim, M.; **Pitts, C. R.**; Lectka, T.;\* Riedel, S.\* "Structural Proof of a [C-F-C]<sup>+</sup> Fluoronium Cation" *Nat. Commun.* **2021**, *12*, 5275.

-----PRIOR TO START OF INDEPENDENT CAREER-----

33. Peters, D. S.;<sup>†</sup> **Pitts, C. R.**;<sup>†</sup> McClymont, K. S.; Stratton, T. P.; Bi, C.; Baran, P. S.\* "Ideality in Context: Motivations for Total Synthesis" *Acc. Chem. Res.* **2021**, *54*, 605-617. [**Invited Manuscript**]

32. Liebing, P.;\* **Pitts, C. R.**; Reimann, M.; Trapp, N.; Rombach, D.; Bornemann, D.; Kaupp, M.; Togni, A. "The Supramolecular Structural Chemistry of Pentafluorosulfanyl and Tetrafluorosulfanylene Compounds" *Chem. Eur. J.* **2021**, *27*, 6086-6093.

31. Bornemann, D.; Brüning, F.; Bartalucci, N.; Wettstein, L.; **Pitts, C. R.\*** "Examining Trichloroisocyanuric Acid and Oxaly Chloride in Complementary Approaches to Fluorination of Group XV Heteroatoms" *Helv. Chim. Acta* **2021**, *104*, e2000218. [**Invited Manuscript in Honor of Professor Antonio Togni**]

30. Bornemann, D.; **Pitts, C. R.**; Wettstein, L.; Brüning, F.; Küng, S.; Guan, L.; Trapp, N.; Grützmacher, H.;\* Togni, A.\* "Deoxygenative Fluorination of Phosphine Oxides: A General Route to Fluorinated Organophosphorus(V) Compounds and Beyond" *Angew. Chem. Int. Ed.* **2020**, *59*, 22790-22795.

29. Ghorbani, F.;<sup>†</sup> Harry, S. A.;<sup>†</sup> Capilato, J. N.; **Pitts, C. R.**; Joram, J.; Peters, G. N.; Tovar, J. D.; Smajlagic, I.; Siegler, M. A.; Dudding, T.;\* Lectka, T.\* "Carbonyl-Directed Aliphatic Fluorination: A Special Type of HAT Beats Out Norrish II" *J. Am. Chem. Soc.* **2020**, *142*, 14710-14724.

28. Capilato, J. N.; **Pitts, C. R.**; Rowshanpour, R.; Dudding, T.; Lectka, T. "Site-Selective Photochemical Fluorination of Ketals: Unanticipated Outcomes in Selectivity and Stability" *J. Org. Chem.* **2020**, *85*, 2855-2864. [**Featured Article**]

27. Holl, M. G.; **Pitts, C. R.**; Lectka, T.\* "Quest for a Symmetric [C-F-C]<sup>+</sup> Fluoronium Ion in Solution: A Winding Path to Ultimate Success" *Acc. Chem. Res.* **2020**, *53*, 265-275.

26. Brüning, F.;<sup>†</sup> **Pitts, C. R.**;<sup>†</sup> Kalim, J.; Bornemann, D.; Ghiazza, C.; de Montmillon, J.; Trapp, N.; Billard, T.;\* Togni, A.\* "Difluoro(aryl)(perfluoroalkyl)- $\lambda^4$ -sulfanes and Selanes: Missing Links of Trichloroisocyanuric Acid/Potassium Fluoride Chemistry" *Angew. Chem. Int. Ed.* **2019**, *58*, 18937-18941.

25. Bornemann, D.;<sup>†</sup> **Pitts, C. R.**;<sup>†</sup>\* Ziegler, C. J.; Pietrasiak, E.; Trapp, N.; Santschi, N.;\* Togni, A.\* "Pentafluoro(aryl)- $\lambda^6$ -tellanes and Tetrafluoro(aryl)(trifluoromethyl)- $\lambda^6$ -tellanes: From SF<sub>5</sub> to the TeF<sub>5</sub> and TeF<sub>4</sub>CF<sub>3</sub> Groups" *Angew. Chem. Int. Ed.* **2019**, *58*, 12604-12608. [**Hot Paper**]

24. Liu, G.; Ciborowski, S. M.; **Pitts, C. R.**; Graham, J. D.; Buytendyk, A.; Lectka, T.; Bowen, K.\* "Observation of the Dipole- and Quadrupole-Bound Anions of 1,4-Dicyanocyclohexane" *Phys. Chem. Chem. Phys.* **2019**, *21*, 18310-18315.

23. Häfliger, J.;<sup>†</sup> **Pitts, C. R.**;<sup>†</sup> Bornemann, D.; Käser, R.; Santschi, N.; Charpentier, J.; Otth, E.; Trapp, N.; Verel, R.; Lüthi, H. P.; Togni, A.\* "Substituent-controlled, Mild Oxidative Fluorination of Iodoarenes: Synthesis and Structural Study of Aryl I(III)- and I(V)-Fluorides" *Chem. Sci.* **2019**, *10*, 7251-7259.

22. Young, J. D.; Honick, C. R.; Zhou, J.; **Pitts, C. R.**; Ghorbani, F.; Peters, G. M.; Lectka, T.; Tovar, J. D.; Bragg, A. E.\* "Energy- and Conformer-Dependent Excited-State Relaxation of an E/Z Photoswitchable Thienyl-Ethene" *Phys. Chem. Chem. Phys.* **2019**, *21*, 14440-14452.

21. **Pitts, C. R.\*** Bornemann, D.; Liebing, P.; Santschi, N.;\* Togni, A.\* "Making the SF<sub>5</sub> Group More Accessible: A Gas Reagent-free Approach to Aryl Tetrafluoro- $\lambda^6$ -sulfanyl Chlorides" *Angew. Chem. Int. Ed.* **2019**, *58*, 1950-1954.

20. Santschi, N.;\* **Pitts, C. R.**; Jelier, B. J.; Verel, R. "Determining the predominant tautomeric structure of iodine-based group-transfer reagents by  $^{17}\text{O}$  NMR spectroscopy" *Beilstein J. Org. Chem.* **2018**, *14*, 2289–2294. **[Invited Manuscript]**
19. Bume, D. D.; Harry, S. A.; Lectka, T.;\* **Pitts, C. R.**\* "Catalyzed and Promoted Aliphatic Fluorination" *J. Org. Chem.* **2018**, *83*, 8803-8814.
18. **Pitts, C. R.**; Holl, M. G.; Lectka, T.\* "Spectroscopic Characterization of a  $[\text{C-F-C}]^+$  Fluoronium Ion in Solution" *Angew. Chem. Int. Ed.* **2018**, *57*, 1924-1927.
17. Bume, D. D.; Harry, S. A.; **Pitts, C. R.**; Lectka, T.\* "Sensitized Aliphatic Fluorination Directed by Terpenoidal Enones: A 'Visible Light' Approach" *J. Org. Chem.* **2018**, *83*, 1565-1575.
16. Holl, M. G.; **Pitts, C. R.**; Lectka, T.\* "Fluorine in a C-F Bond as the Key to Cage Formation" *Angew. Chem. Int. Ed.* **2018**, *57*, 2758-2766.
15. Guan, L.; Holl, M. G.; **Pitts, C. R.**; Struble, M. D.; Siegler, M. A.; Lectka, T.\* "Through-space Activation can Override Substituent Effects in Electrophilic Aromatic Substitution" *J. Am. Chem. Soc.* **2017**, *139*, 14913-14916.
14. Bume, D. D.;† **Pitts, C. R.**†; Ghorbani, F.; Harry, S. A.; Capilato, J. N.; Siegler, M. A.; Lectka, T.\* "Ketones as Directing Groups in Photocatalytic  $\text{sp}^3$  C-H Fluorination" *Chem. Sci.* **2017**, *8*, 6918-6923.
13. **Pitts, C. R.**; Siegler, M. A.; Lectka, T.\* "An Unusual Instance of an Intermolecular Aliphatic C-F---H-C Interaction in the Presence of "Stronger" Hydrogen Bond Acceptors: Crystallographic, Computational, and IR Studies" *J. Org. Chem.* **2017**, *82*, 3996-4000.
12. **Pitts, C. R.**; Bume, D. D.; Harry, S. A.; Siegler, M. A.; Lectka, T.\* "Multiple Enone-Directed Reactivity Modes Lead to the Selective Photochemical Fluorination of Polycyclic Terpenoid Derivatives" *J. Am. Chem. Soc.* **2017**, *139*, 2208-2211.
11. Bume, D. B.; **Pitts, C. R.**; Jokhai, R. T.; Lectka, T.\* "Direct, visible light-sensitized benzylic C-H fluorination of peptides using dibenzosuberenone: selectivity for phenylalanine-like residues" *Tetrahedron* **2016**, *72*, 6031-6036. **[Symposium-in-Print in Honor of Professor Gary H. Posner]**
10. **Pitts, C. R.**; Ling, B.; Snyder, J. A.; Bragg, A. E.; Lectka, T.\* "Aminofluorination of Cyclopropanes: A Multifold Approach through a Common, Catalytically Generated Intermediate" *J. Am. Chem. Soc.* **2016**, *138*, 6598-6609.
9. Bume, D. D.; **Pitts, C. R.**; Lectka T.\* "Tandem C-C Bond Cleavage of Cyclopropanols and Oxidative Aromatization by Manganese(IV) Oxide in a Direct C-H to C-C Functionalization of Heteroaromatics" *Eur. J. Org. Chem.* **2016**, *2016*, 26-30.
8. **Pitts, C. R.**; Bloom, M. S.; Bume, D. D.; Zhang, Q. A.; Lectka, T.\* "Unstrained C-C Bond Activation and Directed Fluorination through Photocatalytically-Generated Radical Cations" *Chem. Sci.* **2015**, *6*, 5225-5229.
7. Bloom, S.; Bume, D. D.; **Pitts, C. R.**; Lectka, T.\* "Site-Selective Approach to  $\beta$ -Fluorination: Photocatalyzed Ring Opening of Cyclopropanols" *Chem. Eur. J.* **2015**, *21*, 8060-8063.
6. **Pitts, C. R.**; Ling, B.; Woltornist, R.; Liu, R.; Lectka, T.\* "Triethylborane-Initiated Radical Chain Fluorination: A Synthetic Method Derived from Mechanistic Insight" *J. Org. Chem.* **2014**, *79*, 8895-8899.
5. **Pitts, C. R.**; Bloom, S.; Woltornist, R.; Auvenshine, D.; Ryzhkov, L. R.; Siegler, M. A.; Lectka, T.\* "Direct, Catalytic Monofluorination of  $\text{sp}^3$  C-H Bonds: A Radical-Based Mechanism with Ionic Selectivity" *J. Am. Chem. Soc.* **2014**, *136*, 9780-9791.
4. **Pitts, C. R.**; Lectka, T.\* "Chemical Synthesis of  $\beta$ -Lactams: Asymmetric Catalysis and Other Recent Advances" *Chem. Rev.* **2014**, *114*, 7930-7953. **[Invited Manuscript]**
3. Bloom, S.; **Pitts, C. R.**; Woltornist, R.; Griswold, A.; Holl, M. G.; Lectka, T.\* "Iron(II)-Catalyzed Benzylic Fluorination" *Org. Lett.* **2013**, *15*, 1722-1724.
2. Bloom, S.; **Pitts, C. R.**; Miller, D. C.; Haselton, N.; Holl, M. G.; Urheim, E.; Lectka, T.\* "A Polycomponent Metal-Catalyzed Aliphatic, Allylic, and Benzylic Fluorination" *Angew. Chem. Int. Ed.* **2012**, *51*, 10580-10583.
1. Anderson, S.;\* **Pitts, C. R.** "Art, science and the staying power of the beat in Bring in 'Da Noise, Bring in 'Da Funk" *Studies in Musical Theatre* **2012**, *6* (2), 227-236.

†Authors with equal contributions, listed alphabetically.

\*Corresponding author.

## Book Chapters

1. **Pitts, C. R.**; Lectka, T. "Allylic Fluorides" *Science of Synthesis: Knowledge Updates* **2017**, 2, 369-395.

## Patents

1. **Pitts, C. R.**; Santschi, N.; Togni, A. "Method for Preparing a Polyfluorinated Compound" **2019**, WO2019/229103, A1.

## Key Achievements

### University of California, Davis

- *Academic Senate Faculty Research Travel Grant, Summer 2022*

### The Scripps Research Institute

- *NIH Postdoctoral Fellowship, Summer 2019 - 2021*

### ETH Zürich

- *ETH Postdoctoral Fellowship, Summer 2017 - Summer 2019*
- *ETH Spark Award Top 5 (for Most Promising Patents Filed at ETH in 2018)*

### Johns Hopkins University

- *Johns Hopkins University Travel Grant, Winter 2017*
- *Glen E. Meyer '39 Fellowship, Summer 2016 - Winter 2016*
- *Gary H. Posner Fellowship, Summer 2014*
- *Krieger School of Arts and Sciences Excellence in Teaching Award, Spring 2013*
- *Ernest M. Marks Fellowship, Fall 2011 - Fall 2012*

### Monmouth University

- *Alumni Association Academic Achievement Award (graduated with cumulative 4.0 GPA), Spring 2010*
- *Graduate of Monmouth University Honors School (determined by GPA, 25 Honors credits, research, and thesis defense)*
- *Jane Freed Grant, Spring 2010*
- *Departmental Honors in Chemistry, Spring 2010*
- *Dean's List, Honors School Highest GPA, Fall 2006 - Spring 2010*
- *Presidential Scholarship, Fall 2006 - Spring 2010*
- *UPS Scholarship, Fall 2007 - 2010*
- *Samuel Hays Magill Scholarship, Fall 2008 - Spring 2010*
- *Chemistry Club Vice President, Fall 2009 - Spring 2010*
- *ACS, Monmouth County, Senior Chemistry Award, Spring 2010*
- *ACS Analytical Chemistry Award, Spring 2010*
- *Member of Phi Lambda Upsilon (Honorary Chemical Society)*
- *Member of Omicron Delta Kappa (National Leadership Honor Society)*

## Presentations

- *South African Fluorine Symposium (SAFS), Sun City, South Africa, Winter 2023*  
Invited Presentation: "Strain-Release Pentafluorosulfanylation"

- *American Chemical Society (ACS) Fall Meeting*, San Francisco, CA, Summer 2023  
Invited Presentation: "Exploring Uncharted Chemical Space with the SF<sub>5</sub> Group and its Congeners"
- *International Symposium on Fluorine Chemistry (ISFC)*, Québec City, Canada, Summer 2023  
Invited Presentation: "Exploring Uncharted Chemical Space with the SF<sub>5</sub> Group and its Congeners"
- *European Symposium on Organic Chemistry (ESOC)*, Ghent, Belgium, Summer 2023  
Poster Presentation: "Exploring Uncharted Chemical Space with the SF<sub>5</sub> Group and its Congeners"
- *European Symposium on Fluorine Chemistry (ESFC)*, Berlin, Germany, Summer 2022  
Contributed Presentation: "Synthesis, Evaluation, and Applications of Polyfluorinated Heteroatoms"
- *International Symposium on Fluorine-Specific Interactions*, Berlin, Germany, Fall 2021  
Invited Presentation: "A Dive into Oxidative Fluorination of Heteroatoms Enabled by a 'Swimming Pool' Reagent"

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- *International Conference on Heteroatom Chemistry (ICHAC)*, Prague, Czech Republic, Summer 2019  
Oral Presentation: "A Mild and General Approach to Oxidative Fluorination of Heteroatoms: Making the SF<sub>5</sub> Group (And Its Kin) More Accessible"
- *IUPAC International Conference on Organic Synthesis (ICOS)*, Florence, Italy, Fall 2018  
Oral Presentation: "A General Approach to Oxidative Polyfluorination of Heteroatoms: Chalcogens and Beyond"
- *International Symposium on Fluorine Chemistry (ISFC)*, Oxford, England, Summer 2018  
Poster: "A General Approach to Oxidative Polyfluorination of Heteroatoms"
- *Belgian Organic Synthesis Symposium (BOSS)*, Brussels, Belgium, Summer 2018  
Poster: "A General Approach to Oxidative Polyfluorination of Heteroatoms"
- *Balticum Organicum Syntheticum (BOS)*, Tallinn, Estonia, Summer 2018  
Poster: "A General Approach to Oxidative Polyfluorination of Heteroatoms"
- *Winter Fluorine Conference, sponsored by ACS Division of Fluorine Chemistry*, Clearwater Beach, FL, Winter 2017  
Poster: "Radical Fluorination of sp<sup>3</sup> C-H and C-C Bonds Employing Transition Metals, Radical Initiators, and Photochemistry: Methods, Mechanisms, and Advances in Selectivity" **[Poster Award]**
- *Gordon Research Conference: Organic Reactions and Processes*, Bryant University, RI, Summer 2013  
Poster: "Direct sp<sup>3</sup> C-H Fluorination: A Metal-Catalyzed Approach"
- *Song, Stage, and Screen VI*, University of Missouri-Kansas City, MO, Spring 2011  
Oral Presentation: "How Do You Measure a Year: It's All Relative in Rent"
- *Song, Stage, and Screen V*, University of Winchester, UK, Fall 2010  
Oral Presentation: "Art, Science, and the Staying Power of the Beat in Bring in 'Da Noise, Bring in 'Da Funk"
- *Monmouth Honors Research Conference*, Monmouth University, NJ, Spring 2010  
Honors Thesis: "Microwave-assisted Synthesis of Esters via the PS-Mukaiyama Reagent"

## Teaching Experience

### Teaching Assistantships (Johns Hopkins)

Fall 2011	<i>Intro Organic Chemistry I</i>
Spring 2012	<i>Intermediate Organic Chemistry Laboratory</i>
Fall 2012	<i>Intro Organic Chemistry I</i>
Spring 2013	<i>Honors Organic Chemistry</i>
Fall 2013	<i>Intro Organic Chemistry I</i>
Spring 2014	<i>Advanced Organic Chemistry</i>
Spring 2015	<i>Advanced Organic Chemistry</i>
Spring 2016	<i>Intro Organic Chemistry II (Head TA)</i>
Spring 2017	<i>Intro Organic Chemistry II (Head TA)</i>

### Independently Taught Intersession Course (Johns Hopkins)

Winter 2013 *Intro to Total Synthesis*

### Undergraduate Courses (UC Davis)

Fall 2023 *Organic Chemistry (CHE 128A)*

### Graduate Courses (UC Davis)

Winter 2022 *Organic Synthesis: Techniques and Strategies (CHE 231A)*

Spring 2022 *Advanced Organic Synthesis (CHE 231B)*

Winter 2023 *Organic Synthesis: Techniques and Strategies (CHE 231A)*

Spring 2023 *Advanced Organic Synthesis (CHE 231B)*

Spring 2024 *Advanced Organic Synthesis (CHE 231B)*

### **Educational Outreach**

Fall 2012 **Johns Hopkins University LEAD Participant**  
*Mentor for inner-city Baltimore middle school student*

2012-2013 **Maryland ACS Committee Member for K-12 Educational Outreach Program**  
*Demonstrations at Title I elementary schools during National Chemistry Week and Science Night*

Summer 2014 **High School Student Mentor**  
*Sponsored a high school student in the Lectka laboratory*

2015-2016 **STEM Achievement in Baltimore Elementary Schools (SABES)**  
*Mentor for 4<sup>th</sup> grade students through this NSF-funded program*

Fall 2018 **Make a Molecule (high school chemical outreach program)**  
*Assisted with instructional video voiceovers for this SNF-funded initiative in the Bode group at ETH*

Winter 2019 **Symposium on Doctoral Supervision (at ETH Zürich)**  
*Facilitated ethics workshop addressing "Guidance / Independency / Emancipation of Doctoral Students"*

Spring 2022 **High School Student Mentor**  
*Sponsored a high school student in the laboratory*

Spring 2024 **High School Student Mentor**  
*Sponsored a high school student in the laboratory*

### **Peer Review Experience**

- *Journal of Organic Chemistry (2017-present)*
- *Journal of the American Chemical Society (2018-present)*
- *Synthesis (2018-present)*
- *European Journal of Organic Chemistry (2019-present)*
- *Helvetica Chimica Acta (2021-present)*
- *Organic Letters (2021-present)*
- *Angewandte Chemie (2021-present)* **\*recognized as being among top 10% of reviewers in 2021**
- *Chemistry – A European Journal (2021-present)*
- *Organic Chemistry Frontiers (2021-present)*
- *Chemical Science (2022-present)*
- *Chemical Communications (2022-present)*
- *Bulletin of the Chemical Society of Japan (2022-present)*

- *New Journal of Chemistry (2023-present)*
- *The Chemical Record (2023-present)*
- *Science China Chemistry (2023-present)*
- *Science Advances (2023-present)*
- *JACS Au (2023-present)*

### Editorial Experience

- Inaugural Member of Early Career Advisory Board (ECAB) – *Organic Chemistry Frontiers* (2024-present)

### Professional Memberships

- American Chemical Society - Division of Organic Chemistry (2022-present)
- American Chemical Society - Division of Fluorine Chemistry (2022-present)
- American Association for the Advancement of Science (2022-present)

### Invited Academic Lectures

- Westfälische Wilhelms-Universität Münster (May 2019)
- University of California, Davis (October 2021)
- University of San Diego (October 2021)
- University of the Pacific (May 2022)
- California State University, Chico (October 2022)
- Sonoma State University (October 2022)

### External Funding

2023-2028	<b>National Institutes of Health Maximizing Investigators' Research Award (NIH MIRA) (R35)</b> <i>NIH/NIGMS (1 R35GM150861-01)</i>	<i>Amount (Direct): \$1,250,000 (\$250,000/year)</i>
2023-2024	<b>Unlock Ideas Award</b> <i>Lam Research Corporation</i>	<i>Amount (Direct): \$50,000 (1 year)</i>