M. KEVIN BROWN

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■APPOINTMENTS

2021-present, James F. Jackson Professor of Chemistry
Indiana University, Bloomington, IN
Department of Chemistry

2021 Full Professor
Indiana University, Bloomington, IN
Department of Chemistry

2017-2021, Associate Professor
Indiana University, Bloomington, IN
Department of Chemistry

2011-2017, Assistant Professor,
Indiana University, Bloomington, IN
Department of Chemistry

2008-2011, National Institutes of Health Postdoctoral Fellow
Harvard University, Boston, MA
Research Advisor: Professor E. J. Corey

■EDUCATION

2002-2008, Boston College, Boston, MA
Ph.D., Organic Chemistry
Thesis Advisor: Professor Amir H. Hoveyda

1998-2002, Hamilton College, Clinton, NY
B.A., Chemistry (Honors)
Thesis Advisor: Professor Ian J. Rosenstein

■RESEARCH

AWARDS

- 2020 *Humboldt Fellowship for Experienced Researchers*
- 2019 *Outstanding Reviewer, Chemical Science*
- 2019 *NIH MIRA for Established Investigators*
- 2016 *Novartis Early Career Award*
- 2016 *Amgen Young Investigator Award*
- 2016 *National Science Foundation CAREER Award*, 2016
- 2015 *Sloan Research Fellowship*, 2015
- 2014 *IU Trustees Teaching Award*, 2014
- *2013 Thieme Chemistry Journal Awardee*, 2013
- 2008-2011 *National Institutes of Health, Ruth L. Kirschstein National Research Service Award,* Harvard University, 2008-2011
- 2010 *ESF Research Conference on Natural Products Chemistry, Biology and Medicine III, Travel Award.* European Science Foundation, 2010
- 2007 *Bristol-Myers Squibb Graduate Fellowship in Synthetic Organic Chemistry*, Sponsored by Bristol-Myers Squibb
- 2006 *Graduate School of Arts and Sciences Academic Achievement Award* Boston College
- 2006 *Excellence in Chemistry Award*, Roche Biosciences
- 2005 *Graduate Fellowship in Organic Chemistry*, American Chemical Society, Sponsored by Schering-Plough
- 2002 *Underwood Prize in Chemistry,* Hamilton College
- 2002 *Elihu Root Fellowship,* Hamilton College
- 2002 *Sigma Xi Scientific Research Society***,** Hamilton College

SEMINARS

117) *ACS Meeting Indianapolis (2)*, March 2023
116) *ACS Meeting Indianapolis (1)*, March 2023
115) *West Virginia University*; November 2022
114) *ACS Meeting Chicago (2)*, August 2022
113) *ACS Meeting Chicago (1)*, August 2022
112) *Boron in the Americas Conference*, June 2022
111) *Canadian Chemistry Conference and Exhibition (2)*, June 2022
110) *Canadian Chemistry Conference and Exhibition (1)*, June 2022
109) *City University New York,* May 2022 (Virtual)
108) *Penn State University*, April 2022
107) *ACS Meeting San Diego*, March 2022
106) *Bingham Young University*, February 2022

105) *3rd Alpine Winter Conference on Medicinal and Synthetic Chemistry*, January 2022 (Virtual)
104) *University of Mainz*, December 2021
103) *University of Munster*, December 2021
102) *Ludwig Maximilians University*, November 2021
101) *University of Basel*, November 2021
100) *Spirochem*, November 2021
99) *Novartis, Basel*, November 2021
98) *Valparaiso University*, October 2021 (Virtual)
97) *Relay Therapeutics*, October 2021
96) *National University Singapore*, September 2021 (Virtual)
95) *Abbive*, September 2021 (Virtual)
94) *ACS Meeting Atlanta*, August 2021(Virtual)
93) *George Mason University,* April 2021 (Virtual)
92) *Illinois State University*, April 2021 (Virtual)
91) *Heriot-Watt University*, March 2021 (Virtual)
90) *Hamilton College*, October 2020 (Virtual)
89) *Missouri State*, September 2020 (Virtual)
88) *IIT Guwahati* August 2020 (Virtual)
87) *FloHet Conference*, March 2020
86) *ISMMS-5 Conference, Japan*, November 2019
85) *Kyoto University*, November 2019
84) *University of Tokyo*, November 2019
83) *Waseda Univerisity*, November 2019
82) *Boston College*, May 2019
81) *Togni University*, May 2019
80) *Shanghai Institute of Organic Chemistry*, May 2019
79) *Fudan University*, May 2019
78) *East China Normal University*, May 2019
77) *Zhejiang University*, May 2019
76) *University of Science and Technology of China*, May 2019
75) *Saint Louis University*, April 2019
74) *Hope College*, March 2019
73) *Calvin College*, March 2019
72) *Grand Valley State University*, March 2019
71) *Celgene*, December 2018
70) *University of Alberta*, October 2018
69) *Corteva Agriscience*, August 2018
68) *University of Pennsylvania*, May 2018
67) *Drexel University*, May 2018
66) *Temple University*, May 2018
65) *Yale University*, March 2018
64) *IISc Bangalore*, December 2017

63) *Indo-US Bilateral Meeting on Organometallic Chemistry*, December 2017
62) *IIT Bombay*, December 2017
61) *SERMACS*, November 2017
60) *Boston University, "Novartis Lecture"*, October 2017
59) *Relay Therapeutics,* July 2017
58) *Novartis Early Career Award Symposium*, June 2017
57) *Dartmouth College*, May 2017
56) *Amgen Young Investigator Award Symposium*, October 2016
55) *University of Illinois*, October 2016
54) *Watanabe Symposium*, October 2016
53) *Chicago Organic Symposium*, October 2016
52) *Gilead Seattle / University of Washington Lecture Series*, September 2016
51) *Gordon Research Conference on Organic Reactions and Processes*, July 2016
50) *French-American Chemical Society Meeting*, June 2016
49) *University of Michigan,* May 2016
48) *Princeton University*, April 2016
47) *Vanderbilt University*, April 2016
46) *University of Illinois at Chicago*, April 2016
45) *Northwestern University*, April 2016
44) *University of California – Irvine*, April 2016
43) *Pfizer – La Jolla*, April 2016
42) *Scripps Research Institute – La Jolla*, April 2016
41) *Duke University*, March 2016
40) *University of North Carolina – Chapel Hill*, March 2016
39) *North Carolina State*, March 2016
38) *Massachusetts Institute of Technology*, March 2016
37) *University of Wisconsin*, March 2016
36) *University of Minnesota*, March 2016
35) *Colorado State University*, February 2016
34) *Pennsylvania State University*, February 2016
33) *University of Texas – Austin*, January 2016
32) *Baylor University*, January 2016
31) *University of Texas Southwestern Medical Center*, January 2016
30) *Notre Dame*, January 2016
29) *Biogen*, November 2015
28) *University of Utah*, October 2015
27) *University of Pittsburgh*, October 2015
26) *UCLA "Pfizer-UCLA Lectureship"*, October 2015
25) *California Institute of Technology*, October 2015
24) *University of Iowa*, October 2015
23) *Iowa State University*, October 2015
22) *Scripps Research Institute – Jupiter*, October 2015

21) *The Ohio State University*, September 2015
20) *Eli Lilly and Co.*, August 2015
19) *JOC/OL Symposium,* ACS Meeting Boston, August 2015
18) *Young Academic Investigators Symposium*, ACS Meeting Boston, August 2015
17) *Bristol-Myers Squibb – Process Chemistry Department,* August 2015
16) *Bristol-Myers Squibb – Discovery Chemistry Department,* August 2015
15) *Gordon Research Conference on Natural Products*, July 2015
14) *Canadian Society of Chemistry Conference*, June 2015
13) *Hamilton College*, November 2014
12) *SUNY Buffalo*, November 2014
11) *University of Rochester*, November 2014
10) *Syracuse University,* November 2014
9) *Butler University*, October 2014
8) *Gordon Research Conference on Stereochemistry* ("Poster Talk"), July 2014
7) *Illinois Wesleyan University*, April 2014
6) *Indiana University Purdue University Indianapolis,* March 2014
5) *Olivet Nazarene University*, February 2014
4) *Hunter College, CUNY* October 2013
3) *Brooklyn College*, *CUNY* September 2013
2) *DePauw University*, September 2013
1) *Western Kentucky University,* October 2012

GRANT SUPPORT

• 2019-2024: National Institutes of Health Maximizing Investigators Research Award: R35GM131755 "*Methods and Strategies for Chemical Synthesis*"
• 2022-Present: SprioChem *"Development of New Classes of Strained Building Blocks"*
• 2016: Novartis Early Career Award
• 2016: Amgen Young Investigator Award,
• 2016-2021: National Science Foundation: CAREER Award - 1554760. "*New Methods for Cu-Catalyzed Cross-Coupling Reactions*"
• 2015-2020: National Institutes of Health: 1R01GM114443. "*Development of New Catalytic Reactions for Chemical Synthesis*."
• 2015-2019: National Institutes of Health: 1R01GM110131. "*Stereoselective Reactions for the Chemical Synthesis of Bioactive Compounds.*"
• 2015: Sloan Foundation Fellowship.
• 2014-2016: American Chemical Society, Petroleum Research Fund: "*Cu-Catalyzed Vicinal Dicarbofunctionalization of Simple Alkenes*."

CONSULTING

• 2020-present: Synthetic Chemistry Consultant for Relay Therapeutics (involves monthly meetings about synthetic chemistry challenges)

PUBLICATIONS

57) "Stereoselective [2+2]-Cycloadditions of Chiral Allenic Ketones and Alkenes: Application Towards the Synthesis of Benzocyclobutenes and Endiandric Acids" Renyu Guo, Brittany P. Witherspoon, Thomas C. Fessard, and M. Kevin Brown *Tetrahedron* **2022**, *122*, 132932. *(Special issue to honor Prof. John Wood as Editor in Chief of Tetrahedron)*

56) "Strain-Release [2π-2α] Cycloaddition for the Synthesis of Bicyclo[2.1.1]hexanes Initiated by Energy Transfer" Renyu Guo**,** Yu-Che Chang**,** Loic Herter, Christophe Salome, Sarah E. Braley, Thomas C. Fessard, and M. Kevin Brown *J. Am. Chem. Soc.* **2022**, *144*, 7988-7994

55) "Photosensitized [2+2]-Cycloadditions of Alkenylboronates and Alkene" Yanyao Liu, Dongshun Ni, Bernard G. Stevenson, Vikrant Tripathy, Sarah E. Braley, Krishnan Raghavachari, John R. Swierk*, and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2022**, 61, *e202200725*

54) "Cooperative Pd/Cu Catalysis for Alkene Arylboration: Opportunities for Divergent Reactivty" Stanna K. Dorn and M. Kevin Brown* *ACS Catal.* **2021**, *12*, 2085

53) "Catalytic Arylboration of Spirocyclic Cyclobutenes: Rapid Access to Highly Substituted Spiro[3.n]alkanes" Amit K. Simlandy, Mao-Yun Lyu and M. Kevin Brown* *ACS Catal.* **2021**, *11*, 12815

52) "Nickel-Catalyzed Dearomative Arylboration of Indoles: Regioselective Synthesis of C2- and C3-Borylated Indolines" Grace L. Trammel, Rositha Kuniyill, Phillip F. Crook. Peng Liu,* and M. Kevin Brown* *J. Am. Chem. Soc.* **2021**, *143*, 16502

51) "Modular Synthesis of a Versatile Double-Allylation Reagents for Complex Diol Synthesis" Stanna K. Dorn, Annika E. Tharp, and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2021**, *60*, 16027

50) "Photochemical Intermolecular Dearomative Cycloadditions of Bicyclic Azaarenes with Alkenes" Jiajia Ma, Shuming Chen, Peter Bellotti**,** Renyu Guo, Felix Schäfer, Arne Heusler, Xiaolong Zhang, Constantin Daniliuc, M. Kevin Brown,***** Kendall Houk,* and Frank Glorius,* *Science* **2021**, 371, 1338-1345.

49) "Allenylidene Induced 1,2-Metalate Rerrangements of Indole-Boronates: Diastereoselective Access to Highly Substituted Indolines" Amit K. Simlandy and M. Kevin Brown *Angew. Chem. Int. Ed.* **2021**, *60*, 12366

48) "Construction of Congested Csp^3-Csp^3 Bonds by a Formal Ni-Catalyzed Alkylboration" Amit K. Simlandy, Stephen R. Sardini and M. Kevin Brown *Chem. Sci.* **2021**, *12*, 5517.

47) "Three-Component Ni-Catalyzed Silylacylation of Alkenes" Dongshun Ni and M. Kevin Brown *ACS. Catal.* **2021**, 11, 1858-1862.

46) "Mechanism-Based Design of an Amide-Directed Ni-Catalyzed Arylboration of Cyclopentene Derivatives" Alison L. Lambright, Yanyao Liu, Isaac A. Joyner, Kaitlyn M. Logan and M. Kevin Brown *Org. Lett.* **2021**, 23, 612-616.

45) "Nickel Catalyzed Arylboration of Cyclopentene" Stephen R. Sardini *Org. Synth.* **2020**, *97*, 355-367

44) "Enantioselective Synthesis of Hippolide J and Reevaluation of Antifungal Activity" Renyu Guo, Sarah Beattie Damian J. Krysan and M. Kevin Brown *Org. Lett.* **2020** *22*, 7743-7746.

43) "Ladderane Natural Products: From the Ground Up" Erin N. Hancock and M. Kevin Brown* *Chem. Eur. J.* **2020**, *22*, 7743 (Review)

42) "Stereoselective [4+2]-Cycloaddition with Chiral Alkenylboranes" Dongshun Ni, Brittany P. Witherspoon, Hong Zhang, Chen Zhou, K. N. Houk* and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2020**, *59,* 11432

41) "Evolution of a Strategy for the Enantioselective Synthesis of (-)-Cajanusine" Renyu Guo, Brittany P. Witherspoon, and M. Kevin Brown* *J. Am. Chem. Soc.* **2020**, *142*, 5002

40) "Lessons in Strain and Stability: An Enantioselective Synthesis of (+)-[5]-Ladderanoic Acid" Erin N. Hancock, Erin L. Kuker, Dear J. Tantillo and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2020**, *59*, 436

39) "Ni-Catalyzed 1,2-Benzylboration of 1,2-Disubstituted Unactivated Alkenes" Seewon Joung, Allison M. Bergmann and M. Kevin Brown* *Chem. Sci* **2019**, *10*, 10944.

38) "Nickel-Catalyzed Arylboration of Alkenylarenes: Synthesis of Boron-Substituted Quaternary Carbons and Regiodivergent Reactions" Liang-An Chen, Alan R. Lear, Dr. Pin Gao, and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2019**, *58*, 10956.

37) "Regioselective Arylboration of 1,3-Butadiene" Allison M. Bergmann, Stephen R. Sardini, Kevin B. Smith. *Isr. J. Chem.* **2019** *(Special issue to honor Professors Buchwald's and Hartwig's receipt of the Wolf Prize)*

36) "(Hetero)arylboration of Alkynes: A Strategy for the Synthesis of a,a,-bis(hetero)arylketones" Yuan Huang, Allison M. Bergmann and M. Kevin Brown. *Org. Biomol. Chem.* **2019**, 17, 5913 *(Special issue for Trends in Organoboron Chemistry)*

35) "Thioallenoates in Catalytic Enantioselective [2+2]-Cycloadditions with Unactivated Alkenes" Michael L. Conner, Johannes M. Wiest, and M. Kevin Brown* *Tetrahedron* **2019**, *75*, 3625. *(Special issue to honor Professor Ryan Shenvi's receipt of the Tetrahedron Young Investigator Award)*

34) "Ni-Catalyzed Arylboration of Unactivated Alkenes: Scope and Mechanistic Studies" Stephen R. Sardini, Alison L. Lambright, Grace L. Trammel, Humair M. Omer, Peng Liu,* and M. Kevin Brown* *J. Am. Chem. Soc.* **2019** 141, 9391.

33) "Synthesis of Biheteroarylalkanes by Heteroarylboration: Development and Application of a Pyridylidene-Cu Complex" Yuan Huang and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2019** *58*, 6048.

32) "Recent Advances in the Synthesis of gem-Dimethylcyclobutane Natural Products" Erin N. Hancock, Johannes M. Wiest and M. Kevin Brown* *Nat. Prod. Rep.* **2019**, *36*, 1383

31) "Catalyst-Controlled 1,2- and 1,1-Arylboration of α-Alkyl Alkenylarenes" Allison M. Bergman, Stanna K. Dorn, Kevin B. Smith, Kaitlyn M. Logan and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2019** *58*, 1719.

30) "Allenoates in Enantioselective [2+2] Cycloadditions: From a Mechanistic Curiosity to a Stereospecific Transformation" Johannes M. Wiest, Michael L. Conner and M. Kevin Brown* *J. Am. Chem. Soc.* **2018** *140*, 15943.

29) "Nickel-Catalyzed Stereoselective Diarylation of Alkenylarenes" Pin Gao, Liang-An Chen and M. Kevin Brown* *J. Am. Chem. Soc.* **2018** *140*, 10653.

28) "Copper-Catalyzed Cross-Coupling of Aryl-, Primary Alkyl-, and Secondary Alkylboranes with Heteroaryl Bromides" Allison M. Bergmann, Adam M. Oldham Wei You and M. Kevin Brown* *Chem. Commun.* **2018** *54*, 5381.

27) "Copper-Catalyzed Heteroarylboration of 1,3-Dienes with 3-Bromopyridines by an Unusual Cine-Substitution" Kevin B. Smith, Yuan Huang and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2018** *57*, 6146.

26) "Synthesis of (-)-Hebelophyllene E: An Entry to geminal Dimethylcyclobutanes by [2+2] Cycloaddition of Alkenes and Allenoates" Johannes M. Wiest, Michael L. Conner and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2018** *57,* 4647.

25) "Nickel–Catalyzed Stereoselective Arylboration of Unactivated Alkenes" Kaitlyn M. Logan, Stephen R. Sardini, Sean D. White and M. Kevin Brown* *J. Am. Chem. Soc.* **2018**, *140*, 159-162.

24) "Synthesis of *ent*-[3]-Ladderanol: Development and Application of Intramolecular Chirality Transfer [2+2] Cycloadditions of Allenic Ketones and Alkenes" Nathan J. Line, Brittany P. Witherspoon, Erin N. Hancock and M. Kevin Brown* *J. Am. Chem. Soc.* **2017**, *139*, 14392-14395

23) "Cu-Catalyzed Borylacylation of Activated Alkenes with Acid Chlorides" Yuan Huang, Kevin B. Smith and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2017**, *56*, 13314

22) "Catalyst Controlled Regiodivergent Arylboration of Dienes" Stephen R. Sardini and M. Kevin Brown* *J. Am. Chem. Soc.* **2017**, *139*, 9823

21) "Intramolecular Chirality Transfer [2+2] Cycloaddition of Allenoates and Alkenes" Yao Xu, Dean J. Tantillo and M. Kevin Brown* *Org. Lett.* **2017**, *19*, 3703

20) "Regioselective Arylboration of Isoprene and its Derivatives by Cu/Pd Cooperative Catalysis" Kevin B. Smith and M. Kevin Brown* *J. Am. Chem. Soc.* **2017**, *139*, 7721

19) "Catalytic Enantioselective Arylboration of Alkenylarenes" Kaitlyn M. Logan and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2017**, *56*, 851

18) "Bringing Organic Chemistry to the Public: Structure and Scent in a Science Museum" M. Kevin Brown* and Laura C. Brown* *J. Chem. Ed.* **2017**, 94, 251

17) "Synthesis of Cyclobutanes by Lewis Acid-Promoted Ketene-Alkene [2+2] Cycloadditions" Christopher M. Rasik, Eleni M. Salyers and M. Kevin Brown* *Org. Syn.* **2016**, 93, 401

16) "Synthesis of 1,3-Substituted Cyclobutanes by Allenoate Alkene [2+2] Cycloaddition" Michael L. Conner and M. Kevin Brown* *J. Org. Chem.* **2016**, *81*, 8050

15) "An Unexpected Lewis Acid Catalyzed Diels-Alder Cycloaddition of Aryl Allenes and Acrylates" Michael L. Conner and M. Kevin Brown* *Tetrahedron,* **2016**, 72, 3759. *(Special issue to honor Professor Neil Garg's receipt of the Tetrahedron Young Investigator Award)*

14) "Collaborative Total Synthesis: Routes to Hippolachnin A Enabled by Quadricyclane Cycloaddition and Late-Stage C-H Oxidation" Monica E. McCallum, Christopher M. Rasik, John L. Wood,* and M. Kevin Brown* *J. Am. Chem. Soc.* **2016**, *138*, 2437

13) "Lewis Acid-Promoted [2+2] Cycloadditions of Alkenes with Aryl Ketenes" Emily M. Rigsbee, Chen Zhou, Christopher M. Rasik, Adam Z. Spitz, Adam J. Nichols and M. Kevin Brown* *Org. Biomol. Chem.* **2016,** *14*, 5477. *(Invited Submission for "New Talent Issue")*

12) "Catalytic Enantioselective Diarylation of Alkenes" Wei You and M. Kevin Brown* *J. Am. Chem. Soc.* **2015** *137*, 14578

11) "Cyclobutane and Cyclobutene Synthesis by Catalytic Enantioselective [2+2] Cycloaddition" Yao Xu and Michael L. Conner and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2015**, *54*, 11918 *(Angew. Chem. MiniReview)*

10) "Catalytic Enatioselective Alleneoate-Alkene [2+2] Cycloadditions," Michael L. Conner, Yao Xu and M. Kevin Brown* *J. Am. Chem. Soc.* **2015** *137*, 3482

9) "*Syn*- and *Anti*-Selective Carboboration of Alkenes Achieved by Cu/Pd-Synergistic Catalysis," Kaitlyn M. Logan, Kevin B. Smith and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2015,** *54,* 5228

8) "Diarylation of Alkenes by a Cu-Catalyzed Migratory Insertion/Cross Coupling Cascade," Wei You, and M. Kevin Brown* *J. Am. Chem. Soc.* **2014**, *136*, 14730

7) "Total Synthesis of Gracilioether F: Development and Applications of Lewis Acid-Promoted Ketene-Alkene [2+2]-Cycloadditions and Late Stage C-H Oxidation," Christopher M. Rasik and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2014,** 53, 14522

6) "Origins of Diastereoselectivity in Lewis Acid-Promoted Ketene-Alkene [2+2] Cycloadditions," Christopher M. Rasik, Young J. Hong, Dean J. Tantillo,* and M. Kevin Brown* *Org. Lett.* **2014**, *16*, 5168

5) "Alkene Carboboration Enabled by Synergistic Catalysis," Kevin B. Smith, Kaitlyn M. Logan, Wei You and M. Kevin Brown* *Chem. Eur. J*. **2014**, 20, 12032

4) "Copper-Catalyzed Cross-Coupling of Aryl Boronic Esters with Aryl Iodides and Application to a Carboboration of Alkynes and Allenes," Yiqing Zhou, Wei You, Kevin P. Smith and M. Kevin Brown* *Angew. Chem., Int. Ed.* **2014***, 53*, 3475

3) "Intermolecular Ketene-Alkene [2+2] Cycloadditions: The Significance of Lewis Acid-Promoted Variants," Christopher M. Rasik and M. Kevin Brown* *Synlett.* **2014***, 25,* 760 *(Invited Synpact Review)*

2) "Stereoselective Synthesis of All-Carbon Tetrasubstituted Alkenes from *In Situ* Generated Ketenes and Organometallic Reagents," Wei You, Yan Li and M. Kevin Brown* *Org. Lett.* **2013** *15,* 1610

1) "Lewis Acid-Promoted Ketene-Alkene [2+2] Cycloadditions," Christopher M. Rasik and M. Kevin Brown* *J. Am. Chem. Soc.* **2013**, *135*, 1673

■SERVICE

DEPARTMENTAL AND UNIVERSITY

• 2019-current: Chemistry Department Policy Committee
• 2019-current: Initiated Chemistry Department End of the Year Symposium
• 2017-2020: Lead PI on NSF MRI application to acquire an NMR spectrometer. Two applications were submitted in consecutive years. Will support >20 research group in the chemistry department. Funded in 2019.
• 2019: Lead PI on a CTSI proposal to acquire a cryoprobe for an NMR spectrometer. Will support >20 research group in the chemistry department. Funded in 2020.
• 2016-2017: External review committee
• 2011-current: Safety Committee, Initiated Safety Minutes at Departmental Seminars
• 2011-2019: Graduate Admissions Committee
• 2012: Chemistry Department Website Design Committee

PROFESSIONAL

• 2022-2028: Organic Syntheses Associate Editor
• 2020-2022: Thematic Coordinator for 2023 Spring ACS Meeting
• 2022: Co-chair of session at Fall 2022 ACS Meeting: Chemistry Across the Border
• 2022: Co-chair of session at 2022 CSC Meeting: Chemistry Across the Border
• 2022: Co-chair of session at Fall 2022 ACS Meeting: Modern Method for Alkene Functionalization
• 2021: Co-chair of session at Fall 2021 ACS Meeting: Synthesis and Biological Synthesis of Anti-Infective Agents
• 2019-Present: Member-at-Large ACS Division of Organic Chemistry. Elected position, Current serving on ACS Fellows and Symposium Planning sub-committees.
• 2019: Local Co-chair of the 2019 ACS National Organic Symposium. Co-organized 4-day conference with over 700 attendees from around the world
• 2013-2018: Designed, developed and installed a chemistry themed exhibit titled, "Smells Like Nano" at WonderLab (Local Children's Museum in Bloomington, IN) (See publication #18)
• 2012-Present: Chair (4x) and Chair-Elect (4x) of the Southern Indiana Section of the ACS, Primary roles were to sustain the Chemistry of Everyday Life and Student Selected Seminar Series.
• 2016: Co-chair of session at ACSCERM2016.
• 2015: Outreach Volunteer of the Year, Southern Indiana Local Section
• 2015: Session chair at Organic Reactions and Processes GRC
• 2014: Organized "ACS On Campus" (Networking event for undergraduate and graduate students)
• 2012-2013: Presented at WonderCamp (summer camp run by WonderLab)

Manuscript and Grant Reviewer

- 2022-2026: NIH standing study section member (SBCB)
- Selected as a 2019 Outstanding Reviewer by the RSC Journal, Chemical Science
- 2018-present: Grant reviewer for National Science Foundation
- 2018-present: (2) Ad hoc Grant reviewer for National Institutes of Health (SBCA and SBCB)
- 2012-present: Grant reviewer for American Chemical Society
- 2011-present: Regular reviewer for ACS, Wiley, Thieme, and RSC journals

■TEACHING

- Courses taught:
  - C540 Physical Organic Chemistry (S11, F12, F13, F15, F16, F17, F18): Graduate level course that all organic chemistry students take. Developed course in 2011.
  - C446 Organic Chemistry 3 (S20, S21, S22): Upper level elective for students wanting further knowledge in organic chemistry.
  - S343 Honors Organic Chemistry Lab 1 (S17, S18, F19, F20, F22)
  - S341 Honors Organic Chemistry 1 (S13, S19)
  - C341 Organic Chemistry 1 (S14, S15)