M. KEVIN BROWN

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■APPOINTMENTS

2021-present, James F. Jackson Professor of Chemistry 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

- 147) Heterocycles GRC, November 2024
- 146) ACS Meeting San Diego, November 2024
- 145) 5th Anatolian Conference, November 2024
- 144) ICCAS, November 2024
- 143) Tsinghua University, November 2024
- 142) Xi'an University, November 2024
- 141) Wuhan University, November 2024
- 140) Nanjing University, November 2024
- 139) Nanjing Normal University, November 2024
- 138) Sanofi, July 2024
- 137) SpiroChem AG Webinar, June 2024
- 136) Lorentz Center Workshop, May 2024
- 135) University of St. Andrews, May 2024
- 134) University of Bristol, May 2024
- 133) University of Oxford, May 2024
- 132) University of Cambridge, May 2024
- 131) University of Manchester, May 2024
- 130) University of Alberta, April 2024
- 129) Gilead, Edmonton, April 2024

- 128) Cornell University, April 2024
- 127) ACS Meeting New Orleans, March 2024
- 126) University of Rochester, November 2023
- 125) Banff Symposium on Organic Chemistry, October 2023
- 124) Pfizer, (Virtual) October 2023
- 123) ACS Meeting San Francisco, August 2023
- 122) Relay Therapeutics, July 2023
- 121) CSC Meeting Calgary, June 2023
- 120) ACS Meeting Indianapolis (2), March 2023
- 119) ACS Meeting Indianapolis (1), March 2023
- 118) Genentech, February 2023
- 117) *UT Dallas*, February 2023
- 116) West Virginia University, November 2022
- 115) SpiroChem AG (Virtual), October 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 University, 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

Current:

- 2019-2029: 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"

Completed:

- 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

- 74) "Synthesis of Secondary Boronate via Deaminative Cross-Coupling of Alkyl Nitroso Carbamates and Boronic Acids" Shashwati Paul and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2024**, *e202408432*
- 73) "Diverse Synthesis of C-Glycosides by Stereoselective Ni-Catalyzed Carboboration of Glycals" Mao-Yun Lyu, Samuel A. Jacobo and M. Kevin Brown* *J. Am. Chem. Soc.* **2024**, *146*, 18866
- 72) "Synthesis of Borylated Carbocycles by [2+2]-Cycloadditions and Photo-Ene Reactions" Jarett M. Posz, Neetu Sharma, Paige A. Royalty, Yanyao Liu, Christophe Salome,* Thomas C. Fessard, and M. Kevin Brown.* *J. Am. Chem. Soc.* **2024**, *146*, 10142

- 71) "Photochemical Reduction of Quinolines with γ -Terpinene" Souvik Adak, Sarah E. Braley, and M. Kevin Brown. *Org. Lett.* **2024**, *26*, 401
- 70) "Ni-Catalyzed 1,1- and 1,3-Aminoboration of Unactivated Alkenes" Mao-Yun Lyu, Gabriel N. Morais, Shuming, Chen, M. Kevin Brown. *J. Am. Chem. Soc.* **2023**, *145*, 27254
- 69) "Synthesis of 2-Azanorbornanes via Strain-Release Formal Cycloadditions Initiated by Energy Transfer" Yu-Che Chang, Christophe Salome,* Thomas Fessard, M. Kevin Brown* *Angew. Chem. Int. Ed.* **2023**, *e202314700*
- 68) "Photosensitized [2+2]-Cycloadditions of Dioxaborole: Reactivity Enabled by Boron Ring Constraint Strategy" Yanyao Liu, M. Kevin Brown *J. Am. Chem. Soc.* **2023**, *145*, 46, 25061.
- 67) "Cu/Pd-Catalyzed Arylboration of a 1-Silyl-1,3-Cyclohexadiene for Stereocontrolled and Diverse Cyclohexane/ene Synthesis" Phillip F. Crook, Alan R. Lear, Suman Das, and M. Kevin Brown. *Chem. Sci.* **2023**, *14*, 10467
- 66) "Lewis Acid Promoted [2+2] Cycloaddition of Allenes and Ketenes: Verstaile Methods for Natural Product Synthesis" Renyu Guo and M. Kevin Brown *Acc. Chem. Res.* **2023**, *56*, 2253.
- 65) "2,5-Disubstituted Bicyclo[2.1.1]hexanes as Rigidified Cyclopentane Variants for Medicinal Chemistry" Shashwati Paul, Daniel Adelfinsky, Christophe Salome, Thomas Fessard* and M. Kevin Brown* *Chem. Sci.* **2023**, *14*, 8070
- 64) "Photosensitized [4+2] and [2+2]-Cycloaddition Reaction of N-Sulfonylimines" Wang Wang, and M. Kevin Brown *Angew. Chem. Int. Ed.* **2023**, *e202305622*
- 63) "Synthesis of (+/-)-Phyltetralin by Cu/Pd-Catalyzed Arylboration" Grace L. Trammel, Abby C. Kerlin, Christian Zachau and M. Kevin Brown Synlett. **2023**, *eFirst (Special issue to honor Modern Boron Chemistry: 60 Years of the Matteson Homologation)*
- 62) "Synthesis of complex bicyclic scaffolds by intermolecular photosensitized dearomative cycloadditions of activated alkenes and naphthalenes" Wang Wang, Yanyao Cai and M. Kevin Brown *Chem. Sci.* **2022**, *13*, 13582
- 61) "Boronic Ester Enabled [2+2]-Cycloaddition by Temporary Coordination: Synthesis of Artochamin J and Piperarborenine B" Yanyao Liu, Dongshun Ni and M. Kevin Brown. *J. Am. Chem. Soc.* **2022**, *144*, 18790

- 60) "[2]-Ladderanes as Isosteres for *Meta*-Substituted Aromatic Rings and Rigidified Cyclohexanes" Rachel C. Epplin, Shashwati Paul, Loïc Herter, Christophe Salome, Erin N. Hancock, Jay F. Larrow, Erich W. Baum, David R. Dunstan, Carol Ginsburg-Moraff, Thomas C. Fessard* and M. Kevin Brown* *Nat. Commun.* **2022**, *13*, 6056
- 59) "Arylboration of Enecarbamates for the Synthesis of Borylated Saturated N-Heterocycles" Grace L. Trammel, Prashansa B. Kannangara, Dmytro Vasko, Oleksandr Datsenko, Pavel Mykhailiuk and M. Kevin Brown* *Angew. Chem. Int. Ed.* **2022**, *e202212117*
- 58) "Photochemical Dearomative Cycloadditions of Quinolines and Alkenes: Scope and Mechanism Studies" Renyu Guo,^a Souvik Adak,^a Peter Bellotti,^b Xinfeng Gao,^a W. Walker Smith,^a Sam (Ngan) Le,^c Jiajia Ma,^b K. N. Houk,*,^d Frank Glorius,*,^b Shuming Chen*,^c and M. Kevin Brown*,^a J. Am. Chem. Soc. **2022**, 144, 17680
- 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
- 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 Bellott, 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 Csp³-Csp³ 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

- 2023-current: Chemistry Department, Director of Graduate Studies
- 2019-current: Chemistry Department Policy Committee
- 2019-current: Initiated and Organizer of 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

- 2024-2026: Chair and Vice Chair, 5th and 6th Anatolian Conference
- 2024-present: Program Chair Elect ACS Division of Organic Chemistry
- 2023: Councilor ACS Division of Organic Chemistry
- 2022-present: Organic Syntheses Associate Editor
- 2022-2023: Member of NOS 2023 Planning Committee
- 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
- 2019-2022: 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) (published in *J. Chem. Ed.*)
- 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 CSB (formally 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, PRF
- 2011-present: Regular reviewer for ACS, Wiley, Thieme, and RSC journals

■TEACHING

- Courses taught:
- C648 Organometallics and Heterocycles (S24) Developed course in 2024
- C540 Physical Organic Chemistry (S11, F12, F13, F15, F16, F17, F18, F23): Graduate level course that all organic chemistry students take. Developed course in 2011
- C446 Organic Chemistry 3 (S20, S21, S22, S23): 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)