

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

- 128) *University of Alberta*, April 2024
- 127) *Gilead, Edmonton*, April 2024
- 126) *Cornell University*, April 2024
- 125) *Banff Symposium on Organic Chemistry*, October 2023
- 124) *Pfizer, Groton* 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) *Abbvie*, 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

- 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

- 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**, *Accepted*
- 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 [2 π -2 α] 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 Reactivity” 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 Rerangements 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)aryllketones" 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 Allenates 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 Allenate 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 Enantioselective Allene-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

- 2013-present: Chemistry Department, Director of Graduate Studies
- 2019-2022: Chemistry Department Policy Committee
- 2019-current: Initiator 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, Initiator Safety Minutes at Departmental Seminars
- 2011-2019: Graduate Admissions Committee
- 2012: Chemistry Department Website Design Committee

PROFESSIONAL

- 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-Present: Member-at-Large/Councilor 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 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
- 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, 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)