CURRICULUM VITAE

BRIAN VINCENT POPP

WEST VIRGINIA UNIVERSITY

C. Eugene Bennett Department of Chemistry
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A. PROFESSIONAL POSITIONS

WEST VIRGINIA UNIVERSITY, MORGANTOWN, WV

Chairperson – Department of Chemistry	2024 – present
Professor of Chemistry	2024 – present
Director of Graduate Studies – Department of Chemistry	2019 – 2024
Associate Professor of Chemistry	2019 – 2024
Assistant Professor of Chemistry	2011 – 2019

B. EDUCATION AND TRAINING

RICE UNIVERSITY, HOUSTON, TX

Advisor: Zachary T. Ball

J. Evans Attwell-Welch Postdoctoral Research Fellow 2008 – 2011
Dirhodium metallopeptides as artificial enzymes for site selective bioconjugation

UNIVERSITY OF WISCONSIN-MADISON, MADISON, WI

Advisor: Shannon S. Stahl
Postdoctoral Research Associate 2007 – 2008
Mechanistic Studies of Palladium-Catalyzed Oxidative Amination
Ph.D. in Chemistry, Inorganic May 2007
Experimental and Computational Studies of the Reaction of Molecular Oxygen with Reduced Palladium Species

WRIGHT STATE UNIVERSITY, DAYTON, OH

Advisor: Prof. Vladimir Katovic
M.S. in Chemistry August 2002
Imidazolium- and Pyrazolium-Based Room Temperature Ionic Liquids: Studies of Physical, Thermal and Electrochemical Properties
B.S. in Chemistry – ACS Certified May 2001

C. Honors and Awards

West Virginia University

WVU Award for Distinction in Mentoring Undergraduates in Research	2022
C. Eugene Bennett Department of Chemistry Outstanding Faculty Award	2019
National Science Foundation CAREER Award	2018
NRCCE Shale Gas Flash Funding Award	2014
ACS PRF Doctoral New Investigator Award	2013
Don and Linda Brodie Discovery and Innovation Award	2012

Rice University

J. Evans Attwell-Welch Postdoctoral Research Fellowship Presented by The Welch Foundation and The Rice University Weiss School of Natural Sciences and The Richard E. Smalley Institute for Nanoscale Science and Technology at Rice University	2008

University of Wisconsin-Madison

Inorganic Chemistry Graduate Student Dissertation Research Award	2007
Perkin Medal Scholarship presented by Dr. James C. Stevens The Dow Chemical Company (2006 Perkin Medal Recipient) And The Society of Chemical Industry–American Section	2006
Graduate Teaching Commendation	2003
Belle-Crowe Excellence in Inorganic Chemistry Award	2002

Wright State University

Graduate Teaching Award	2000
Dubois-Nussey Excellence in Chemistry Scholarship	2000
Golden Key National Honor Society	2000

D. Publications

Hyperlinks to online versions provided (subscription may be required)

Independent Publications (Undergraduate student coauthor indicated with ‡).

Papers published in independent career:

53. Nichols, B. N.; Petersen, J. L.; Dolinar, B. S.; **Popp, B. V.** "Primary and Secondary Coordination Sphere Lewis Acid Interactions in β-Phosphinoethylborane-ligated Rhodium and Iridium Complexes" *New J. Chem.* **2025**, *49*, 14073-14081. https://doi.org/10.1039/D5NJ01429H.

52. Cowan, S. C.; Glenn, C. D.; Hamilton, M. D.; Ansari, A.; Ross, M. R.; Shelly, D. W.; Popp, B. V.; Hilton, M. J. "Reactivity of Alcohol Substrates and Boron-Containing Complexes in C–H Alkylation Enabled by Photoredox, Hydrogen Atom Transfer, and Boronic Acid Catalysis" *J. Org. Chem.* **2025**, *90*, 7492-7497. https://doi.org/10.1021/acs.joc.4c02670.

51. Li, L; Long, S. M.; Selveraj, N. J.; Dolinar, B. S.; **Popp, B. V.**; Wang, K. K. "Synthesis and Structures of Carbon Nanohoops Containing Three Picene Units with Each Having Two Carbomethoxy Substituents" *Org. Lett.* **2025**, *27*, 6578-6582. https://doi.org/10.1021/acs.orglett.5c01384.

50. Hamilton, M.D.; Perrone, T. M.; **Popp, B. V.** "Methodology to Control the Regioselective Installation of a Carboxylic Acid for the Synthesis of 2,3-Diarylpropionic Acids" *Adv. Synth. Catal.* **2025**, *4*, e202400952. https://doi.org/10.1002/adsc.202400952.

49. Li, L; Long, S. M.; Dolinar, B. S.; **Popp, B. V.**; Wang, K. K. "Synthesis and Structures of Functionalized Macrocyclic Carbon Nanohoops Bearing a [9]Cycloparaphenylene or Higher Homological Unit" *ACS Omega* **2025**, *10*, 3222-3227. https://doi.org/10.1021/acsomega.4c11201.

48. Abeysinghe, R. T.; Ravenscroft, A. C.;‡ Knowlden, S. W.; Akhmedov, N. G.; Dolinar B. S.; **Popp B. V.** "Synthesis of Novel Multifunctional *bora*-Ibuprofen Derivatives" *Inorganics* **2023**, *11*, 70-81. https://doi.org/10.3390/inorganics11020070.

47. Knowlden, S. W.; Abeysinghe, R. T.; Swistok, A. S.;‡ Ravenscroft, A. C.;‡ **Popp, B. V.** Synthesis of a Borylated Ibuprofen Derivative through Suzuki Cross-Coupling and Alkene Boracarboxylation Reactions. *JoVE* **2022**, No. 189, 64571. https://doi.org/10.3791/64571.

46. Knowlden, S. W.; Popp, B. V. Regioselective Boracarboxylation of α-Substituted Vinyl Arenes. *Organometallics* **2022**, *41*, 1883–1891. https://doi.org/10.1021/acs.organomet.2c00184.

45. Amason, E. K.;‡ Rajabimoghadam, K.; Baughman, N. N; Ghareeb C. R.; Bourgeois, S. K.;‡ Keuk, C.;‡ Manacsa, G.;‡ **Popp, B. V.**; Garcia-Bosch, I.; Ferrence, G. M.; Joslin, E. E. "Synthesis and Reactivity of Potential Ampy-based Ruthenium(II) Catalysts for Amide Formation" *Organometallics*, **2022**, *41*, 686-697; https://doi.org/10.1021/acs.organomet.1c00444.

43. Martin, A.; Rogers, J. A.; Batsomboon, P.; Morrison, A.;‡ Ramsubhag, R.; **Popp, B. V.**; Dudley, G. B. "Benzannulation and hydrocarboxylation methods for the synthesis of a neopentylene-fused analogue of ibuprofen" *ACS Omega* **2021**, *6*, 30108-30114; https://pubs.acs.org/doi/pdf/10.1021/acsomega.1c04943.

42. Baughman, N. N; Akhmedov, N. G.; Petersen, J. L.; **Popp, B. V.** "Experimental and Computational Studies of CO_2 Addition Reactions Relevant to Copper-Catalyzed Boracarboxylation of VinyCl Arenes: Evidence for a Phosphine-Promoted Mechanism" *Organometallics* **2021**, *40*, 23-37; https://pubs.acs.org/doi/10.1021/acs.organomet.0c00488.

41. Baughman, N. N; **Popp, B. V.** "Evidence of Boron Assistance for CO_2 Activation during Copper-Catalyzed Boracarboxylation of Vinyl Arenes: A Synthetic Model for Cooperative Fixation of CO_2" *Comment Inorg. Chem.* **2020**, *40*, 159-175; https://doi.org/10.1080/02603594.2020.1726328.

40. Rogers, J. A.; Popp, B. V. "Operando Infrared Spectroscopy Study of Iron-Catalyzed Hydromagnesiation of Styrene: Explanation of Nonlinear Catalyst and Inhibitory Substrate Dependencies" *Organometallics* **2019**, *38*, 4533-4538; https://pubs.acs.org/doi/10.1021/acs.organomet.9b00492.

39. Perrone, T. M.; Gregory, A. S.;‡ Knowlden, S. W.; Ziemer, N. R.;‡ Alsulami, R. N.; Petersen, J. L.; **Popp, B. V.** "Beneficial effect of a secondary ligand on the catalytic difunctionalization of vinyl arenes with boron and CO_2" *ChemCatChem* **2019**, *11*, 58145820; https://doi.org/10.1002/cctc.201901197.

38. Hanaya, K.; Ohata, J.; Yang, D. C.; Rosenthal, R. M.; **Popp, B. V.**; Ball, Z. T. "Rapid Nickel(II)-catalyzed cysteine *S*-arylation with arylboronic acids" *Chem. Commun.* 2019, *55*, 2841-2844; https://doi.org/10.1039/C9CC00159J.

37. **Popp, B. V.**; Richards-Babb, M. "The West Virginia University Chemistry REU Program." In *Best Practices for Chemistry REU Programs*; Griep, M., Watkins, L. Eds.; ACS Symposium Series; American Chemical Society: Washington, DC, 2018, pp 86-106. https://doi.org/10.1021/bk-2018-1295.ch007.

36. Nichols, B. N.; Akhmedov, N. G.; Petersen, J. L.; **Popp, B. V.** "Access to a pair of ambiphilic phosphine-borane regioisomers by rhodium-catalyzed hydroboration" *Dalton Trans.* 2018, *47*, 8456-8465; https://doi.org/10.1039/C8DT01467A.

35. Gary, S.;‡ Adegboye, J.; **Popp, B. V.**; Cocuron, J.-C.; Woodrum, B.;‡ Kovinich, N. "Combining semi-synthesis with plant and microbial biocatalysis: New frontiers in the chemical arsenal against cancer" *RSC Adv.* 2018, 8, 21332-21339; https://doi.org/10.1039/C8RA02184H.

34. Li, S.; Aljhdli, M.; Thakellapalli, H.; Farajidizaji, B.; Zhang, Y.; Akhmedov, N. G.; Milsmann, C.; **Popp, B. V.**; Wang, K. K. "Synthesis and structure of a functionalized [9]cycloparaphenylene bearing three indeno[2,1-a]fluorine-11,12-dione-2,9-diyl units" *Org. Lett.* **2017**, *19*, 4078-4081; https://doi.org/10.1021/acs.orglett.7b01866.

33. Thakellapalli, H.; Li, S.; Farajidizaji, B.; Baughman, N. N.; Akhmedov, N. G.; **Popp, B. V.**; Wang, K. K. "Synthesis and properties of conjugated macrocycles containing 2,7-bis(2thienyl)-9*H*-fluoren-9-one units" *Org. Lett.* **2017**, *19*, 2674-2677; https://doi.org/10.1021/acs.orglett.7b01019.

32. Prince, N.; **Popp, B. V.**; Mertz, B.; Gupta, C.; Boyd, J. "A novel approach to battlefield wound assessment and treatment for forward surgical teams" *HDIAC Journal* **2017**, *4*, 4045; https://hdiac.org/articles/a-novel-approach-to-battlefield-wound-assessment-treatment-for-forward-surgical-teams/.

31. Farajidizaji, B.; Huang, C.; Thakellapalli, H.; Li, S.; Akhmedov, N. G.; **Popp, B. V.**; Petersen, J. L.; Wang, K. K. "Synthesis and characterization of dfunctionalized [12]cycloparaphenylenes containing four alternating biphenyl and naphthyl units" *J. Org. Chem.* **2017**, *82*, 4458-4464; https://doi.org/10.1021/acs.joc.7b00397.

30. Huang, C.; Li, S.; Thakellapalli, H.; Farajidizaji, B.; Huang, Y.; Akhmedov, N. G.; **Popp, B. V.**; Petersen, J. L.; Wang, K. K. "Synthesis of partially hydrogenated cycloparaphenylenes with bent and fused structures bearing armchair carbon nanotube-like connections" *J. Org. Chem.* **2017**, *82*, 1166-1174; https://doi.org/10.1021/acs.joc.6b02789.

29. Butcher, T. W.;‡ McClain, E. J.;‡ Hamilton, T. G.;‡ Perrone, T. M.; Kroner, K. M.;‡ Donohoe, G. C.; Akhmedov, N. G.; Petersen, J. L.; **Popp, B. V.** "Regioselective coppercatalyzed boracarboxylation of vinyl arenes" *Org. Lett.* **2016**, *18*, 6428-6431; https://doi.org/10.1021/acs.orglett.6b03326.

    - Recognized as the "Editor's Choice" article for Nov. 30, 2016, by American Chemical Society Publications
    - Organic Chemistry Portal Highlight:
      http://www.organic-chemistry.org/abstracts/lit5/696.shtm

28. Li, S.; Huang, C.; Thakellapalli, H.; Farajidizaji, B.; **Popp, B. V.**; Petersen, J. L.; Wang, K. K. "Synthesis and structures of functionalized [9]cycloparaphenylenes as carbon nanohoops bearing carbomethoxy and N-phenylphthalimido groups" *Org. Lett.* **2016**, *18*, 2268-2271; https://doi.org/10.1021/acs.orglett.6b00904.

27. Farajidizaji, B.; Thakellapalli, H.; Li, S.; Huang, C.; Baughman, N. N.; Akhmedov, N. G.; **Popp, B. V.**; Petersen, J. L.; Wang, K. K. "Syntheses of cycloparaphenylenes bearing furan-2,5-diyl or 2,2'-bifuran-5,5'-diyl units in macrocyclic structures" *Chem. Euro. J.* **2016**, *22*, 3470-3473; https://doi.org/10.1002/chem.201604036.

26. Thakellapalli, H.; Farajidizaji, B.; Butcher, T. W.;‡ **Popp, B. V.**; Akhmedov, N. G.; Petersen, J. L.; Wang, K. K. "Syntheses and structures of thiophene-containing cycloparaphenylenes and related carbon nanohoops" *Org. Lett.* **2015**, *6*, 3470-3473; https://doi.org/10.1021/acs.orglett.5b01514.

25. Vohidov, F.; Knudsen, S. E.; Leonard, P.; Ohata, J.; Wheadon, M.; **Popp, B. V.**; Ladbury, J.; Ball, Z. T. "Potent and selective inhibition of SH3 domains with dirhodium metalloinhibitors" *Chem. Sci.* **2015**, *6*, 4778-4783; https://doi.org/10.1039/C5SC01602A.

24. Huang, C.; Huang, Y.; Akhmedov, N. G.; **Popp, B. V.**; Petersen, J. L.; Wang, K. K. "Functionalized carbon nanohoops: Synthesis and structure of a [9]cycloparaphenylene bearing three 5,8-dimethoxynaphth-1,4-diyl units" *Org. Lett.* **2014**, *16,* 2672-2675; https://doi.org/10.1021/ol500904x.

23. Vajpayee, V.; Bivaud, S.; Goeb, S.; Croué, V.; Allain, M.; **Popp, B. V.**; Garcia, A.; Therrien, B.; Sallé, M. "Electron-rich arene-ruthenium metalla-architectures incorporating tetrapyridyl-tetrathiofulvene donor moieties." *Organometallics* **2014**, *33*, 1651-1658. https://doi.org/10.1021/om401142j.

22. Seehra, M. S.; Pyapalli, S. K.; **Popp, B. V.**; Goulay, F.; Gullion, T.; Poston, J. "Phase transformations in microcrystalline cellulose under ball milling and hydrothermal treatment" *Cellulose* **2014**, *33*, 1651-1658; http://dx.doi.org/10.1007/s10570-014-0424-y.

21. Sambasivan, R.; Zheng, W.; Burya, S. J.; **Popp, B. V.**; Turro, C.; Clementi, C.; Ball, Z. T. "A tripodal monopeptide ligand for asymmetric Rh(II) catalysis and the importance of onbead catalyst development" *Chem. Sci.* **2014** *5,* 1401-1407; https://doi.org/10.1039/C3SC53354A.

Papers published prior to West Virginia University:

20. **Popp, B. V.**; Miles, D. H.;‡ Smith, J. A.; Fong, I. M.; Pasquali, M.; Ball, Z. T. "Stabilization and functionalization of single-walled carbon nanotubes with polyvinylpyrrolidone copolymers for applications in aqueous media" *J. Polymer Sci. A: Polymer Chem.* **2015**, *53*, 337-343; https://doi.org/10.1002/pola.27365.

19. Vohidov, F.; **Popp, B. V.**; Ball, Z. T. "Designing enzyme-like catalysts: A rhodium(II) metallopeptide case study" *Proc. 24th Amer. Peptide Symposium.* Orlando, June 20-25, 2015; Srivastava, V., Yudin, A., Lebl, M., Eds.; American Peptide Society: 2015, 24-26; http://dx.doi.org/10.17952/24APS.2015.024.

18. **Popp, B. V.**; Chen, Z.; Ball, Z. T. "Sequence-specific inhibition of a designed metallopeptide catalyst" *Chem. Commun.* **2012**, *48*, 7492-7494; https://doi.org/10.1039/C2CC33808D.

17. Kundu, R.; Cushing, P. R.; **Popp, B. V.**; Zhao, Y.; Madden, D. R.; Ball, Z. T. "Hybrid organic-inorganic inhibitors of a PDZ interaction that regulates the endocytic fate of CFTR" *Angew. Chem. Int. Ed.* **2012**, *51*, 7217-7220; https://doi.org/10.1002/anie.201202291.

16. Decharin, N.; **Popp, B. V.**; Stahl, S. S. "Reaction of O_2 with [(–)-Sparteine]Pd(H)Cl: Evidence for an intramolecular $[H–L]^+$ "reductive elimination" pathway" *J. Am. Chem. Soc.* **2011**,*133*, 13268-13271; https://doi.org/10.1021/ja204989p.

15. Chen, Z; **Popp, B. V.**; Bovet, C. L.; Ball, Z. T. "Site-specific protein modification with a dirhodium-metallopeptide catalyst" *ACS Chem. Biol.* **2011**, *6*, 920-925; https://doi.org/10.1021/cb2001523.

14. Ye, X.; Liu, G.; **Popp, B. V.**; Stahl, S. S. "Mechanistic studies of Wacker-type intramolecular oxidative amination of alkenes catalyzed by $Pd(OAc)_2$/pyridine" *J. Org. Chem.* **2011**, *76*, 1031-1044; https://doi.org/10.1021/jo102338a.

    • Recognized as a "Featured Article" by *J. Org. Chem.*

13. **Popp, B. V.**; Ball, Z. T. "Proximity-driven metallopeptide catalysis: Remarkable side-chain scope enables modification of the Fos bZip domain" *Chem. Sci.* **2011**, *2*, 690-695; https://doi.org/10.1039/C0SC00564A.

    • Highlighted in *Chemistry World*

12. Konnick, M. M.; Decharin, N. D.; **Popp, B. V.**; Stahl, S. S. "O_2 insertion into a palladiumhydride bond: Observation of mechanistic crossover between HX-reductive-elimination and hydrogen-atom-abstraction pathways" *Chem. Sci.* **2011**, *2*, 326-330; https://doi.org/10.1039/C0SC00392A.

11. **Popp, B. V.**; Morales, C. M.; Landis, C. R.; Stahl, S. S. "Electronic structural comparison of the reactions of dioxygen and electron-deficient alkenes with nitrogen-chelated palladium(0)" *Inorg. Chem.* **2010**, *49*, 8200-8207; https://doi.org/10.1021/ic100806w.

    • Recognized as the Cover Article by *Inorg. Chem.*

10. Zaykov. A.; **Popp, B. V.**; Ball, Z. T. "Helix induction by dirhodium: Access to biocompatible metallopeptides with defined secondary structure" *Chem. Eur. J.* **2010**, *16*, 6651-6659; https://doi.org/10.1002/chem.200903092.

9. **Popp, B. V.**; Ball, Z. T. "Structure-selective modification of aromatic side chains with dirhodium metallopeptide catalysts" *J. Am. Chem. Soc.* **2010**, *132*, 6660-6662; https://doi.org/10.1021/ja101456c.

    • Highlighted in *Chemical Engineering Progress Magazine*

8. **Popp, B. V.**; Stahl, S. S. "Mechanism of $Pd(OAc)_2$/pyrdine catalyst reoxidation by O_2: Influence of labile monodentate ligands and identification of a biomimetic mechanism for O_2 activation" *Chem. Eur. J.* **2009**, *15*, 2915-2922; https://doi.org/10.1002/chem.200802311.

    • Identified as a "Very Important Paper" (VIP) by *Chem. Eur. J.*

7. **Popp, B. V.**; Stahl, S. S. Palladium-Catalyzed Oxidation Reactions: Comparison of Benzoquinone and Molecular Oxygen as Stoichiometric Oxidants. In *Organometallic Oxidation Reactions*; Meyer, F., Limberg, C., Eds.; Topics in Organometallic Chemistry, Vol. 22; Springer: Berlin, 2007; pp 149-189; https://doi.org/10.1007/3418_039.

6. **Popp, B. V.**; Stahl, S. S. "Insertion of molecular oxygen into a Pd-hydride bond: Computational evidence for two nearly isoenergetic pathways" *J. Am. Chem. Soc.* **2007**, *129*, 4410-4422; https://doi.org/10.1021/ja069037v.

5. **Popp, B. V.**; Wendlandt, J. E.; Landis, C. R.; Stahl, S. S. "Reaction of molecular oxygen with an NHC-coordinated Pd^0 complex: Computational insights and experimental implications" *Angew. Chem. Int. Ed.* **2007**, *46*, 601-604; https://doi.org/10.1002/anie.200603667.

    • Identified as a "Very Important Paper" (VIP) by *Angew. Chem.*

4. **Popp, B. V.**; Thorman, J. L.; Stahl, S. S. “Similarities between the reactions of dioxygen and alkenes with palladium(0): Relevance to the use of benzoquinone and molecular oxygen as stoichiometric oxidants in palladium-catalyzed oxidation reactions” *J. Mol. Cat. A: Chem.* **2006,** 251, 2-7; https://doi.org/10.1016/j.molcata.2006.02.019.

3. **Popp, B. V.**; Stahl, S. S. “"Oxidatively-induced" reductive elimination of dioxygen from an η^2-peroxopalladium(II) complex promoted by electron-deficient alkenes” *J. Am. Chem. Soc.* **2006,** 128, 2804-2805; https://doi.org/10.1021/ja057753b.

2. Scarborough, C. C.; **Popp, B. V.**; Guzei, I. A.; Stahl, S. S. “Development of 7-membered *N*-heterocyclic carbene ligands for transition metals” *J. Organomet. Chem.* **2005,** 690, 6143-6155; https://doi.org/10.1016/j.jorganchem.2005.08.022.

1. **Popp, B. V.**; Thorman, J. L.; Morales, C. M.; Landis, C. R.; Stahl, S. S. “"Inverse-electron demand" ligand substitution: Experimental and computational insights into olefin exchange at palladium(0)” *J. Am. Chem. Soc.* **2004,** 126, 14832-14842; https://doi.org/10.1021/ja0459734.

E. Patents

1. Ball, Z. T.; **Popp, B. V.**; Zaykov, A. N. “Metallopeptide catalysts for structure-selective polypeptide modification” *U.S. Patent Declaration* accepted Jan. 2011 (#12/953,075)

2. Ball, Z. T.; Madden, D. R.; Kundu, R.; Cushing, P. R.; **Popp, B. V.** “Small molecule conjugates with dimetal species for protein inhibition” *U.S. Patent Declaration* accepted June. 2013 (#13/916,359)

F. Invited Lectures, Symposia, Conferences (scheduled lectures in italics)

Mar. 20, 2026	Southeastern University	Lakeland, FL
Mar. 10, 2026	West Virginia University Humanities Center Tell Me More: Hope and Science	Morgantown, WV
Oct. 14, 2025	Marshall University	Huntingtin, WV
Apr. 14, 2025	Indiana University of Pennsylvania	Webinar
Oct. 4, 2024	Youngstown State University	Youngstown, OH
Mar. 6, 2024	The Artic University of Norway (UiT)	Tromsø, Norway
Dec. 6, 2023	West Virginia University (Dept. of Chemistry)	Morgantown, WV
Oct. 27, 2023	Ursinus College	Collegeville, PA
Oct. 26, 2023	Gettysburg College	Gettysburg, PA
Oct. 25, 2023	Shepherd University	Shepherdstown, WV
Mar. 26-30, 2023	ACS National Meeting, Symposium in Honor of Shannon S. Stahl	Indianapolis, IN
Jan. 26, 2023	Nordic Consortium for CO_2 Conversion (NORDCO2) Annual Meeting	Webinar
Dec. 2, 2022	Indiana University of Pennsylvania	Indiana, PA
Oct. 20, 2022	ACS SERMACS, Symposium on Sustainable Green Chemistry	San Juan, PR
Oct. 7, 2022	West Virginia Wesleyan College	Buckhannon, WV
Oct. 6, 2022	California University of Pennsylvania	California, PA
Jun. 23, 2022	BORAM XVII – Boron in the Americas Meeting	Blacksburg, VA
Jun. 3, 2022	ACS MARM, Stories of Selectivity in Reaction Development Symposium	Ewing, NJ

Nov. 17, 2021	Indiana University of Pennsylvania	Webinar
Nov. 12, 2021	ACS SERMCS, Frontiers in Organic Synthesis and Catalysis Symposium	Birmingham, AL
Dec. 2, 2020	California University of Pennsylvania	Webinar
Nov. 20, 2020	Indiana University of Pennsylvania	Webinar
Nov. 11, 2020	Grambling State University	Webinar
Nov. 2, 2020	Fort Hays State University	Webinar
Nov. 15, 2019	West Liberty University	West Liberty, WV
Oct. 20, 2019	ACS SERMACS, Advances in Phosphorous-based Ligand Symposium	Savannah, GA
Oct. 18, 2019	Southeastern Louisiana University	Hammond, LA
Dec. 12, 2018	West Virginia University (Dept. of Chemistry)	Morgantown, WV
Dec. 7, 2018	University of the South	Sewanee, TN
Dec. 4, 2018	Indiana State University	Terra Haute, IN
Nov. 30, 2018	Wright State University	Dayton, OH
Nov. 29, 2018	Penn State University, Behrend	Erie, PA
Nov. 14, 2018	Virginia Tech	Blacksburg, VA
Nov. 7, 2018	Rowan University	Glassboro, NJ
Oct. 30, 2018	University of Buffalo	Buffalo, NY
Oct. 26, 2018	McMaster University	Hamilton, ON
Oct. 23, 2018	Queen's University	Kingston, ON
Oct. 22, 2018	University of Ottawa	Ottawa, ON
Oct. 19, 2018	Mount Allison University	Sackville, NB
Oct. 16, 2018	Dartmouth University	Hanover, NH
Oct. 15, 2018	University of Vermont	Burlington, VT
Sept. 30, 2018	Drexel University	Philadelphia, PA
Sept. 29, 2018	Temple University	Philadelphia, PA
Sept. 28, 2018	University of Delaware	Newark, DE
Sept. 14, 2018	University of Texas, San Antonio	San Antonio, TX
Sept. 12, 2018	Rice University	Houston, TX
Sept. 11, 2018	University of Houston	Houston, TX
Sept. 7, 2018	University of Virginia	Charlottesville, VA
Mar. 16, 2018	Youngstown University	Youngstown, OH
Nov. 17, 2017	Indiana University of Pennsylvania	Indiana, PA
Mar. 8, 2017	University of Wisconsin-Madison	Madison, WI
Feb. 10, 2017	Saint Francis University	Loretto, PA
Feb. 9, 2017	Carnegie Mellon University	Pittsburgh, PA
Oct. 21, 2016	Portland State University	Portland, OR
May 19, 2016	ACS CERM, Frontiers in Organometallic Chemistry Symposium	Covington, KY
Mar. 16, 2016	Wake Forest University	Winston-Salem, NC
Mar. 15, 2016	West Virginia Wesleyan College	Buckhannon, WV
Nov. 21, 2013	Fairmont State University	Fairmont, WV
June 4, 2012	WVU High Performance Computing Workshop	Morgantown, WV
Oct. 24, 2011	Wittenberg University	Springfield, OH

Oct. 21, 2011	Wright State University	Dayton, OH
Oct. 20, 2011	Wilberforce University	Wilberforce, OH

G. Contributed Presentations

Presenting author is underlined. Undergraduate student coauthor indicated with ‡

1. **Popp, B. V.** "Difunctionalization of unactivated alkenes with boron and CO_2" Conference: 270th National Meeting of the American Chemical Society, Location: Washington, DC Date: Aug 17-21, 2025 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 270 (oral).

2. Kennedy, O. G.;‡ Looker, M. M.;‡ Selverag, N. S.; Dudley, G. B.; Popp, B. V. "Rhodium-catalyzed regioselective [2+2+2] cyclotrimerization of tethered 1,6-diynes" Conference: 270th National Meeting of the American Chemical Society, Location: Washington, DC Date: Aug 17-21, 2025 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 270 (poster). *Selected as a contribution for SCI-MIX.*

3. Heller, E. L.; Long, S. M.; Tolliver, C.; Dolinar, B. S.; Dudley, G. B.; Popp B. V. "Nickel-catalyzed cyclotrimerization of terminal alkynes with vinyl sulfone" Conference: Central Regional Meeting of the American Chemical Society (CERM), Location: Pittsburgh, PA Date: Nov. 6-9, 2024 (oral).

4. Selvaraj, N. S.; Dudley, G. B.; Popp, B. V. "Rhodium(I)-Catalyzed Regioselective [2+2+2] Cyclotrimerizations of Tethered 1,6-Diynes" Conference: Central Regional Meeting of the American Chemical Society (CERM), Location: Pittsburgh, PA Date: Nov. 6-9, 2024 (oral).

5. Hines, G. M.;‡ Hamilton, M. D.; **Popp, B. V.** "Silver-catalyzed fluorination of Alkyl Boronic Esters" WVU Summer Undergraduate Research Symposium, Summer 2024. (poster)

6. Hines, G. M.;‡ Hamilton, M. D.; **Popp, B. V.** "Copper-catalyzed amination of alkyl boronic esters" WVU Fall Undergraduate Research Symposium, Fall 2023. (poster)

7. Gordon, C. H.; **Popp, B. V.** "Copper-mediated regioselective Boracarboxylation of unactivated alkenes" Session: Organic Chemistry Research and Development; Conference: Southeast Regional Meeting of the American Chemical Society (SERMACS), Location: Raleigh Durham, NC Date: Oct. 25-28, 2023, Meeting Abstract: 3966864 (oral).

8. Hamilton, M. D.; **Popp, B. V.** "Functionalization of alkyl-boronic esters" Session: Organic Chemistry Research and Development; Conference: Southeast Regional Meeting of the American Chemical Society (SERMACS), Location: Raleigh Durham, NC Date: Oct. 25-28, 2023, Meeting Abstract: 3936787 (oral).

9. Kline, M. L.;‡ Hamilton, M. D.; **Popp, B. V.** "Copper-catalyzed amination of β-aryl boronic esters" WVU Summer Undergraduate Research Symposium, Summer 2023. (poster)

10. **Popp, B. V.** "Copper-catalyzed alkene boracarboxylation reactions" in 2003 ACS Award in Organometallic Chemistry: Symposium in Honor of Shannon S. Stahl (Session Chairs: Dian Wang and Jessica Hoover) Conference: 265th National Meeting of the American Chemical Society, Location: Indianapolis, IN Date: Mar 26-30, 2023 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 265 (oral).

11. Long, S. M.; Heller, E. L.; Tolliver, C. A.;‡ **Popp, B. V.**; Dudley, G. B. "Nickel-catalyzed cyclotrimerization of alkynes with vinyl sulfone partners" Conference: 265th National

Meeting of the American Chemical Society, Location: Indianapolis, IN Date: Mar 26-30, 2023 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 265 (oral).

12. Ravenscroft, A. C.;‡ Abeysinghe, R. T.; Hamilton, M. D.; Whitcomb, R. E.;‡ Akhmedov, N. G.; **Popp, B. V.** "Suzuki-Miyaura cross-coupling with difluoroboralactonate salts" Conference: 265th National Meeting of the American Chemical Society, Location: Indianapolis, IN Date: Mar 26-30, 2023 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 265 (oral).

13. O'Reilly, M. C.;‡ Hamilton, M. D.; **Popp, B. V.** "Functionalization of alkyl boronic esters to access β^2-amino acid derivatives" Conference: 265th National Meeting of the American Chemical Society, Location: Indianapolis, IN Date: Mar 26-30, 2023 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 265 (poster).

14. **Popp, B. V.** "Utilization of carbon dioxide in copper-catalyzed boracarboxylative difunctionalization of alkenes" Session: Symposium on Sustainable Green Chemistry (Session Chair: HN Cheng and Juan C. Colberg) Conference: Southeast Regional Meeting of the American Chemical Society (SERMACS), Location: San Juan, PR Date: Oct. 19-22, 2022, Meeting Abstract: 3790220 (oral).

15. Gordon, C. A.; Baughman, N. N.; **Popp, B. V.** "Mechanistic importance of Xantphos for Cu-catalyzed boracarboxylation methodology" Conference: 264th National Meeting of the American Chemical Society, Location: Chicago, IL Date: Aug 21-26, 2022 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 264 (oral).

16. Hamilton, M. D.; Perrone, T. M.; Ravenscroft, A. C.;‡ **Popp, B. V.** "New methodology to control regioselectivity of 2,3-diarylpropionic acids utilizing Suzuki cross-coupling with boracarboxylation products" Conference: 264th National Meeting of the American Chemical Society, Location: Chicago, IL Date: Aug 21-26, 2022 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 264 (oral).

17. Heller, E. H.; Long, S. M.; Tolliver, C. A.;‡ Dudley, G. B.; **Popp, B. V.** "Nickel-catalyzed cyclotrimerization of terminal alkynes with vinyl sulfone" Conference: 264th National Meeting of the American Chemical Society, Location: Chicago, IL Date: Aug 21-26, 2022 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 264 (poster).

18. Knowlden, S. W.; Koziel, R. A.; Schultz, A. R.;‡ Zheng, K.;‡ **Popp, B. V.** "Copper-catalyzed boracarboxylation of unactivated alkenes using Xantphos as a secondary ligand" Conference: 264th National Meeting of the American Chemical Society, Location: Chicago, IL Date: Aug 21-26, 2022 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 264 (oral).

19. Ravenscroft, A. C.;‡ Abeysinghe, R. T.; Tolliver, C. A.;‡ Akhmedov, N. G.; **Popp, B. V.** "Synthesis and characterization of novel difluoroboralactonate salts" Conference: 264th National Meeting of the American Chemical Society, Location: Chicago, IL Date: Aug 2126, 2022 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 264 (poster).

20. Zheng, K.;‡ Knowlden, S. W.; **Popp, B. V.** "Copper-catalyzed boracarboxylation of unactivated alkenes bearing ester functionality" Conference: 264th National Meeting of the

American Chemical Society, Location: Chicago, IL Date: Aug 21-26, 2022 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 264
(poster).

21. O'Reilly, M. C.;‡ Hamilton, M. D.; **Popp, B. V.** "Functionalization of alkyl boronic esters to access β^2-amino acid derivatives" WVU Summer Undergraduate Research Symposium, Summer 2022. (poster)

22. **Popp, B. V.** "Copper-catalyzed difunctionalization of alkenes with boron and CO_2" Boron in the Americas (BORAM) Biannual Conference hosted by Virginia Tech. (Organizer: Prof. Webster Santos) Location: Blacksburg, VA Date: June 20-23, 2022 (oral).

23. **Popp, B. V.**; "Mechanistic Insights into the copper-catalyzed difunctionalization of alkenes with boron and CO_2" Session: Stories of Selectivity in Reaction Development Symposium (Session Chair: Prof. Ryan Murelli) Conference: Mid-Atlantic Regional Meeting of the American Chemical Society (MARM), Location: The College of New Jersey, Ewing, NJ Date: June 1-4, 2022, Meeting Abstract: 3743876 (oral).

24. Zheng, K.;‡ Knowlden, S. W.; **Popp, B. V.** "Copper-catalyzed boracarboxylation of unactivated alkenes bearing ester functionality" WVU Undergraduate Research Symposium, Spring 2022. (poster)

25. Schultz, A. R.;‡ Knowlden, S. W.; **Popp, B. V.** "Copper-catalyzed boracarboxylation of a Vitamin E derivative" WVU Undergraduate Research Symposium, Spring 2022. (poster)

26. **Popp, B. V.**; Knowlden, S.W; Gordon, C. H. "Broadening copper-catalyzed boracarboxylation to include unactivated a-olefins using Xantphos as a secondary ligand" Session: Frontiers in Organic Synthesis and Catalysis Symposium (Session Chair: Prof. Webster Santos) Conference: Southeast Regional Meeting of the American Chemical Society (SERMACS), Location: Birmingham, AL Date: Nov. 12, 2021, Meeting Abstract: 183518 (oral).

27. Ravenscroft, A. C.;‡ Abeysinghe, R.; Hamilton, M. D.; **Popp, B. V.** "*Catalytic chemistry of novel boron-fluorine functionalized drug-like molecules*" WVU Summer Undergraduate Research Symposium, Summer 2021.

28. Ravenscroft, A. C.;‡ Nau, C.; Aljhdli, M. O.; Gowda, A. S.; Akhmedov, N. G.; Wang, K. K.; **Popp, B. V.** "*Studies of organic transformations using operando spectroscopy and computational chemistry*" WVU Virtual Undergraduate Research Symposium, Fall 2020.

29. Nau, C.;‡ Rogers, J. A.; Ravenscroft, A. C..; **Popp, B. V.** "Exploring chemical reaction mechanisms using in situ infrared spectroscopy" WVU Virtual Undergraduate Research Symposium, Spring 2020.

30. Hamilton, M. D.;‡ Perrone, T. M.; **Popp, B. V.** "New methodology to controlling regioselectivity utilizing a copper-catalyzed boracarboxylation" Conference: 259th National Meeting of the American Chemical Society, Location: Virtual Date: Mar 21-25, 2020 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 259
Meeting Abstract: https://doi.org/10.1021/scimeetings.0c00822 (poster).

31. Koziel, R. D.‡ "Progress in Suzuki cross-coupling of boracarboxylated products" Conference: 259th National Meeting of the American Chemical Society, Location: Virtual Date: Mar 21-25, 2020 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 259

32. **Popp, B. V.** "Phosphine center stage: Profile of a leading and supporting actor in organometallic catalysis" Session: Advances in Phosphorous-based Ligand Symposium (Session Chairs: Profs. Benjamin Wicker and George Stanley) Conference: Southeast Regional Meeting of the American Chemical Society (SERMACS), Location: Savannah, GA Date: Oct 20-23, 2019, Meeting Abstract: 183 (oral).

33. Koziel, R.;‡ Perrone, T. M.; **Popp, B. V.** "Progress in Suzuki cross-coupling of boracarboxylated products" WVU Undergraduate Research Symposium, Morgantown, WV. July 2019.

34. Hamilton, M. D.;‡ Perrone, T. M.; **Popp, B. V.** "New methodology to controlling regioselectivity utilizing a copper-catalyzed boracarboxylation" WVU Undergraduate Research Symposium, Morgantown, WV. July 2019.

35. **Popp, B. V.;** Baughman, N. N. "Copper-catalyzed difunctionalization of alkenes with boron and CO_2: Evidence for a cooperative carboxylation transition-state" Conference: 257th National Meeting of the American Chemical Society, Location: Orlando, FL Date: Mar 31-Apr 4, 2019 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 257 Meeting Abstract: 246-ORGN (oral).

36. Knowlden, S. W.; **Popp, B. V.** "Impact of increased CO_2 pressure on substrate scope and boracarboxylation reaction efficiency" Conference: 257th National Meeting of the American Chemical Society, Location: Orlando, FL Date: Mar 31-Apr 4, 2019 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 257 Meeting Abstract: 191-ORGN (oral).

37. Martin, A.; **Popp, B. V.**; Dudley, G. B. "Metal-catalyzed cyclotrimerization reactions of alkynes tethered to vinyl sulfones" Conference: 257th National Meeting of the American Chemical Society, Location: Orlando, FL Date: Mar 31-Apr 4, 2019 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 257 Meeting Abstract: 196ORGN (oral).

38. Reese, M.;‡ Nichols, B. R.; Akhmedov, N. G.; Petersen, J. L.; **Popp, B. V.** "Influence of a second coordination sphere borane on rhodium(I) oxidative addition of chelating aldehydes" Conference: 257th National Meeting of the American Chemical Society, Location: Orlando, FL Date: Mar 31-Apr 4, 2019 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 257 Meeting Abstract: 335-INOR (poster).
Selected as a contribution for SCI-MIX.

39. Taylor, T.;‡ Perrone, T. M.; **Popp, B. V.** "Mechanistic insights into deboronofluorination of alkyl-Bpin substrates with Selectfluor and silver catalyst" Conference: 257th National Meeting of the American Chemical Society, Location: Orlando, FL Date: Mar 31-Apr 4, 2019 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 257 Meeting Abstract: 1416-CHED (poster).

40. Rogers, J. A.; **Popp, B. V.** "Iron-catalyzed transfer hydromagnesiation of vinyl arenes: Mechanistic insights and indications of competing alkene insertion pathways" Conference: 257th National Meeting of the American Chemical Society, Location: Orlando, FL Date: Mar 31-Apr 4, 2019 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 257 Meeting Abstract: 1015-INOR (oral).

41. Abeysinghe, R.; **Popp, B. V.** "Preparation, characterization, and COX activity of novel boron-containing ibuprofen derivatives" Conference: 257th National Meeting of the

American Chemical Society, Location: Orlando, FL Date: Mar 31-Apr 4, 2019 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 257 Meeting Abstract: 215-ORGN (oral).

42. Perrone, T. M.; **Popp, B. V.** "Synthetic utility of boracarboxylated styrene derivatives" Conference: 257th National Meeting of the American Chemical Society, Location: Orlando, FL Date: Mar 31-Apr 4, 2019 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 257 Meeting Abstract: 19-ORGN (oral).

43. Baughman, N. N.; Akhmedov, N. G.; **Popp, B. V.** "Mechanistic analysis of Cu(I)catalyzed boracarboxylation of vinyl arenes" Conference: 257th National Meeting of the American Chemical Society, Location: Orlando, FL Date: Mar 31-Apr 4, 2019 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 257 Meeting Abstract: 911-INOR (oral).

44. **Popp, B. V.** "Regioselective Copper-catalyzed Boracarboxylation of Vinyl Arenes" Boron in the Americas (BORAM) Biannual Conference hosted by Boston College. Location: Boston, MA Date: June 26-30, 2018.

45. Taylor, T. T.;‡ Perrone, T. M.; **Popp, B. V.** "Mechanistic insight into deboronofluorination of boracarboxylated vinyl arenes" WVU Undergraduate Research Symposium, Morgantown, WV. July 2018.

46. Reese, M. R.;‡ Nichols, B. N.; Akhmedov, N. G.; Petersen, J. P.; **Popp, B. V.** "Influence of a secondary sphere borane on rhodium(I) oxidative addition of aldehydes" WVU Undergraduate Research Symposium, Morgantown, WV. July 2018. *Awarded 1st place in the physical sciences category (>40 posters judged).*

47. **Popp, B. V.** "Organometallic reductive functionalization reactions of alkenes with CO_2" Conference: 255th National Meeting of the American Chemical Society, Location: New Orleans, LA Date: Mar 18-22, 2018 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 255 Meeting Abstract: 40-ORGN (oral).

48. **Popp, B. V.** "Kinetics and mechanism of iron-catalyzed transfer hydrometallation" Conference: 255th National Meeting of the American Chemical Society, Location: New Orleans, LA Date: Mar 18-22, 2018 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 255 Meeting Abstract: 1103-INOR (oral).

49. **Popp, B. V.** "Best practices at the West Virginia University Department of Chemistry Research Experiences for Undergraduates Site" Conference: 255th National Meeting of the American Chemical Society, Location: New Orleans, LA Date: Mar 18-22, 2018 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 255 Meeting Abstract: 2147-CHED (oral).

50. Ziemer, N.;‡ Perrone, T. M.; Knowlden, S.; **Popp, B. V.** "Mild synthesis of a novel boronbased pharmaceutical candidate by copper catalysis with CO_2" Conference: 255th National Meeting of the American Chemical Society, Location: New Orleans, LA Date: Mar 18-22, 2018 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 255 Meeting Abstract: 48-PROF (oral).

51. Knowlden, S.; Perrone, T. M.; Gregory, A.;‡ Ziemer, N.;‡ **Popp, B. V.** "Boracarboxylation of vinyl arenes with redox-neutral copper catalysis: Expanding substrate and boron reagent scope and improving catalyst efficiency" Conference: 255th National Meeting of

the American Chemical Society, Location: New Orleans, LA Date: Mar 18-22, 2018 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 255 Meeting Abstract: 170-ORGN (poster).

52. Rogers, J. A.; **Popp, B. V.** "Operando infrared spectroscopic studies of iron-catalyzed hydromagnesiation of vinyl arenes" Conference: 255th National Meeting of the American Chemical Society, Location: New Orleans, LA Date: Mar 18-22, 2018 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 255 Meeting Abstract: 868INOR (poster).

53. Rogers, J. A.; **Popp, B. V.** "Kinetic study of iron-catalyzed transfer hydromagnesiation using operando infrared spectroscopy" Conference: 254th National Meeting of the American Chemical Society, Location: Washington, DC Date: AUG 22-26, 2017 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 254 Meeting Abstract: 108-INOR (oral).

54. Perrone, T. M.; Knowlden, S.; **Popp, B. V.** "Expansion of boracarboxylated vinyl arenes: Exploring the synthetic elaboration of the carbon-boron bond through cross-coupling" Conference: 254th National Meeting of the American Chemical Society, Location: Washington, DC Date: AUG 22-26, 2017 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 254 Meeting Abstract: 956-INOR (oral).

55. Baughman, N. N.; **Popp, B. V.** "Mechanistic investigation of copper-catalyzed boracarboxylation of alkenes" Conference: 254th National Meeting of the American Chemical Society, Location: Washington, DC Date: Aug 22-26 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 254 Meeting. Abstract: 238INOR (poster).

56. Nichols, B. R.; Akhmedov, N.; Petersen, J. L.; **Popp, B. V.** "Regioselective preparation of a flexible phosphine-borane by hydroboration with simple rhodium catalysts" Conference: 254th National Meeting of the American Chemical Society, Location: Washington, DC Date: Aug 22-26, 2017 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 254 Meeting. Abstract: 216-ORGN (poster).

57. Ziemer, N.;‡ Knowlden, S.; **Popp, B. V.** "Mild synthesis of novel boron-based pharmaceutical candidates by copper catalysis with CO_2" WVU Undergraduate Research Symposium, Morgantown, WV. July 2017.
Awarded 2nd place in the physical sciences category (>40 posters judged).

58. Nichols, B. N.; Petersen, J. L.; **Popp, B. V.** "Frustrated Lewis pairs as ligands for latetransition metal complexes: Probing interactions in the coordination sphere" Conference: 253rd National Meeting of the American Chemical Society, Location: San Francisco, CA Date: APR 2-6, 2017 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 253 Meeting Abstract: 439-ORGN (oral).

59. **Popp, B. V.** "Mild carboxylation strategies with base metal catalysts" Conference: 253rd National of the American Chemical Society, Location: San Francisco, CA Date: APR 2-6, 2017 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 253 Meeting Abstract: 1558-INOR (oral).

60. Perrone, T. M.; Butcher, T. W.;‡ Knowlden, S.; McClain, E. J.;‡ **Popp, B. V.** "Synthetic utility of boracarboxylated styrene derivatives" Conference: 253rd National Meeting of the

American Chemical Society, Location: San Francisco, CA Date: APR 2-6, 2017 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 253 Meeting. Abstract: 216-ORGN (poster).

61. **Popp, B. V.** "Kinetic investigation of an iron-catalyzed transfer hydrometallation reaction" Presented at the Inorganic Reaction Mechanisms Gordon Research Conference, Galveston, TX, March 2017 (poster).

62. Kroner, K.;‡ Perrone, T. M.; **Popp, B. V.** "Functionalizing styrene to produce pharmaceutical derivatives of non-steroidal anti-inflammatory drugs" WVU Undergraduate Research Symposium, Morgantown, WV. July 2016. *Awarded 2nd place in the physical sciences category (>40 posters judged).*

63. **Popp, B. V.** "Mild carboxylation of vinyl arenes using base metal catalysts: Methodology and mechanism" Presented at the Organometallics Gordon Research Conference, Salve Regina, RI, July 2016 (poster).

64. **Popp, B. V.** "Mild carboxylation strategies with base metal catalysts" Meeting: ACS Central Regional Meeting, Location: Covington, KY Date: May 18-21, 2016. Frontiers in Organometallic Chemistry Session, H. Guan (Organizer and Presiding) Abstract: 302 (oral).

65. McClain, E. J.;‡ Butcher, T. W.;‡ Hamilton, T. G.;‡ **Popp, B. V.** "Boracarboxylation of vinyl arenes" Meeting: ACS Central Regional Meeting, Location: Covington, KY Date: May 18-21, 2016. Abstract: 188 (poster).

66. Baughman, N. N.; Petersen, J. L.; **Popp, B. V.** "Synthesis and characterization of late transition metal complexes with P–N heterobidentate ligands" Meeting: ACS Central Regional Meeting, Location: Covington, KY Date: May 18-21, 2016. Abstract: 395 (poster).

67. Pickens, R. N.; Vajpayee, V; Nichols, B. N.; Petersen, J. L.; Akhmedov, N. G.; **Popp, B. V.** "Four-membered metallacycles arising from an ambiphilic ligand: Synthesis and characterization of Group IX complexes" Meeting: ACS Central Regional Meeting, Location: Covington, KY Date: May 18-21, 2016. Abstract: 396 (poster).

68. Rogers, J. A.; **Popp, B. V.** "In situ infrared spectroscopy study of iron-catalyzed hydromagnesiation of styrene derivatives" Meeting: ACS Central Regional Meeting, Location: Covington, KY Date: May 18-21, 2016. Abstract: 397 (poster).

69. Forte, L.;‡ **Popp, B. V.** "Mechanistic investigations of cobalt complex catalyzed styrene functionalization" WVU Undergraduate Research Symposium, Morgantown, WV. July 2015.

70. Huang, C.; Huang, Y.; Akhmedov, N. G.; **Popp, B. V.**; Petersen, J. L.; Wang, K. K. "Functionalized carbon nanohoops: Synthesis and structure of a [9]cycloparaphenylene bearing three 5,8-dimethoxynaphth-1,4-diyl units" Conference: 248th National Fall Meeting of the American-Chemical-Society, Location: San Francisco, CA Date: AUG 1014, 2014 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 248 Meeting Abstract: 376-ORGN (poster).

71. Butcher, T. B.;‡ Vajpayee, V.; **Popp, B. V.** "Synthesis and characterization of macrocyclic metal complexes containing Lewis-acidic organoborane moieties" WVU Undergraduate Research Symposium, Morgantown, WV. July 2013.

72. Vajpayee, V.; Butcher, T. W.; **Popp, B. V.** "Heterobimetallic complexes for catalytic alkene carboxylation" Conference: 247th National Meeting of the American Chemical Society, Location: Dallas, TX Date: MAR 12-16, 2014 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 247 Meeting Abstract: 892-INOR (oral).

73. Nichols, B. R.; Petersen, J. L.; **Popp, B. V.** "Frustrated Lewis Pairs as Ligands for Organometallic Catalysis." Conference: 247th National Spring Meeting of the AmericanChemical-Society, Location: Dallas, TX Date: MAR 12-16, 2014 *ABSTRACTS OF*
PAPERS OF THE AMERICAN CHEMICAL SOCIETY Vol: 247 Meeting Abstract: 707-INOR (poster). *Selected as a contribution for SCI-MIX.*

74. Butcher, T. W.;‡ Vajpayee, V.; **Popp, B. V.** "PDI-pincer ligands with a modifiable secondary coordination sphere: Synthesis, characterization, and application to transitionmetal catalysis" Conference: 247th National Spring Meeting of the American-ChemicalSociety, Location: Dallas, TX Date: MAR 12-16, 2014 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 247 Meeting Abstract: 241-INOR (poster).

75. Farijidizaji, B.; Smith, K. L.;‡ **Popp, B. V.** "A new class of multifunctional binolate ligand: Synthesis, characterization, and applications toward catalysis." Conference: 247th National Spring Meeting of the American-Chemical-Society, Location: Dallas, TX Date: MAR 12-16, 2014 *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol: 247 Meeting Abstract: 640-INOR (poster).

76. Butcher, T. W.;‡ Vajpayee, V.; Petersen, J. L.; **Popp, B.** V. "Synthesis and characterization of multifunctional PDI complexes: Application to hydrocarboxylation" Conference: Undergraduate Research Day at the Capital, Location: Charleston, WV Date: Jan 27, 2014 (poster).

77. Butcher, T. B.;‡ Vajpayee, V.; **Popp, B. V.** "Hydrogen fuel production from acids: Electrocatalytic proton reduction by cobalt(II)" WVU Undergraduate Research Symposium, Morgantown, WV. July 2013.
Awarded 2nd place in the physical sciences category (>30 posters judged).

78. **Popp, B. V.** "A Density Functional Theory Study of Organometallic Hydroacylation with Zwitterionic Rhodium" Presented at the Organometallics Gordon Research Conference, Salve Regina, RI, July 2013 (poster).

79. Youmbi, F.;‡ **Popp, B. V.** "Synthesis of zinc sulfide nanoparticles with photocatalytic properties" WVU Undergraduate Research Symposium, Morgantown, WV. July 2012.

80. Burock, N.;‡ **Popp, B. V.** "Preparation of short peptides featuring the dityrosine residue" Presented at the 245th ACS National Meeting, New Orleans, LA, April 2013; paper ORG702 (poster).

81. **Popp, B. V.** "Enhancing the Experimentalist's Mechanistic Intuition through Computational Chemistry." WVU High Performance Computing Summer Institute, West Virginia University, May 2012 (oral).

Prior to West Virginia University

82. **Popp, B. V.**; Ball, Z. T. "Dirhodium Metallopeptides for the Modification of Peptides and Proteins" Presented at the Organometallics Gordon Research Conference, Salve Regina, RI, July 2010 (poster).

83. **Popp, B. V.**; Miles, D. H.; Fong, I.; Pasquali, M.; Ball, Z. T. "Amphiphilic Polyvinylpyrrolidone-based Copolymers for Single-Walled Carbon Nanotube Wrapping." Presenting at the 2009 Fall Materials Research Society Meeting, Boston, MA, December 2009, paper K11.2 (oral).

84. **Popp, B. V.** "A new bioconjugation strategy using dirhodium metallopeptides and transient protein-protein interactions." Center for Biological and Environmental Nanotechnology-Student Leadership Council, Rice University, October 2009 (oral).

85. **Popp, B. V.**; Stahl, S. S. "Mechanism of $Pd(OAc)_2$/Pyridine Catalyst Reoxidation by Molecular Oxygen" Presented at the Inorganic Reaction Mechanisms Gordon Research Conference, Galveston, TX, March 2009 (poster).

86. Katovic, V.; May, M; DeCerbo, J; Topper, A.; **Popp, B.**; Dyar, H; Krall, H. "Electrochemical and Spectroelectrochemical Properties of Several Air Sensitive Niobium Complexes Obtained In Imidazolium Based Ionic Liquids." Presented at the 235th ACS National Meeting, New Orleans, LA, April 2008; paper INOR-276 (poster).

87. **Popp, B. V.** "Understanding Molecular Oxygen Activation at Reduced Palladium Centers." Presented at the 2007 Chemistry Department Student Awards Symposium, University of Wisconsin-Madison, May 2007 (oral).

88. **Popp, B. V.**; Stahl, S. S. "Identification of Nearly Isoenergetic Pathways for the Reaction of Dioxygen with a Palladium-Hydride Complex." Presented at the 233rd ACS National Meeting, Chicago, IL, April 2007; paper INOR-1259 (oral).

89. **Popp, B. V.**; Konnick, M. M.; Stahl, S. S. "Fundamentals of Aerobic Palladium Oxidation Catalysis." Presented at the Dow Chemical Mini-Symposium, University of WisconsinMadison, February 2006 (oral).

90. **Popp, B. V.**; Morales, C. M., Landis, C. R., Stahl, S. S. "Oxidatively-Induced Release of Dioxygen from a Peroxopalladium(II) Complex." Presented at the 9th International Symposium on the Activation of Dioxygen and Homogeneous Catalytic Oxidation, Cologne, Germany, July 2005 (poster).

91. Dancevic, A.; Davidson, A.; Dyar, H.; Krall, H.; **Popp, B.**; Katovic, V. "Use of Roomtemperature Ionic Liquids in Electrochemical and Spectroelectrochemical Applications." Presented at the 228th ACS National Meeting, Philadelphia, PA, August 2004; paper INOR-503 (poster).

92. Dancevic, A.; Davidson, A.; Dyar, H.; Krall, H.; **Popp, B.**; Katovic, V. "Use of Roomtemperature Ionic Liquids in Electrochemical and Spectroelectrochemical Investigation of Nb and Ta Halides." Presented at the 225th ACS National Meeting, New Orleans, LA, March 2003; paper INOR-206 (poster).

93. Katovic, V.; Dyar, H.; Krall, H.; **Popp, B.**; May, M. "Electrochemical and Spectroelectrochemical Investigation of Nb(V) and Ta(V) in the Non-Coordinating Room

Temperature Ionic Liquid 1-Ethyl-3-Methylimidazoium Tetrafluoroborate." Presented at the 221st ACS National Meeting, San Diego, CA, April 2001; paper INOR-122 (poster).

H. FUNDING

CURRENT FUNDING

1. Regioselective (2+2+2) Cyclotrimerizations
   Source: National Science Foundation
   Award (amount): CHE-2154773 ($525,000)
   Period: 09/01/2022–08/31/2026
   Role: Sole PI (Initial Lead PI: Dudley)
2. MRI: Track 3 Acquisition of Helium Recovery Equipment at West Virginia University
   Source: National Science Foundation
   Award (amount): CHE-2320295 ($300,989)
   Period: 09/01/2023–08/31/2026
   Role: Co-PI (Lead PI: Gullion)
3. Chemical Toolkit for Monitoring and Modulating Receptor Tyrosine Phosphatase Activity
   Source: National Science Foundation
   Award (amount): CHE-253216 ($639,000)
   Period: 09/01/2025–08/31/2028
   Role: Co-PI (Lead PI: Barrios – University of Utah)

PENDING FUNDING

1. CC* Compute-Campus: Building a Regional High-Performance Computing Hub for Innovation and Collaboration in West Virginia
   Source: National Science Foundation
   Award (amount): Pending ($700,000)
   Period: 05/01/2025–04/30/2027
   Role: Co-PI (Lead PI: Mandal)

COMPLETED FUNDING

1. CAREER: Reductive Carboxylation of Unsaturated Hydrocarbons
   Source: National Science Foundation, CAREER Award
   Award (amount): CHE-1752986 ($675,000)
   Period: 03/01/2018–02/28/2025 (two-year NSF no-cost-extension submitted 12/2023)
   Role: Sole PI
2. REU Site: Research in Chemistry at West Virginia University
   Source: National Science Foundation
   Award (amount): CHE-1852369 ($326,911)
   Period: 04/01/2019–03/31/2024
   Role: PI (Co-PI: Richards-Babb)
3. MRI: Acquisition of Dolly Sods GPU Cluster for Accelerated High-Performance Computing and Applications in Machine Learning and Artificial Intelligence in West Virginia
   Source: National Science Foundation
   Award (amount): OAC-2117575 ($1,099,448)

Period: 09/01/2021–08/31/2024
Role: Senior Personnel (PI: Mertz)

4. Regioselective Nickel-Catalyzed [2+2+2] Cyclotrimerization
Source: WVU Research Office Program to Stimulate Competitive Research (PSCoR)
Award (amount): $28,000
Period: 07/01/2020-12/31/2021
Role: Co-PI (PI: Dudley)

5. Neopentylene-based Building Blocks for Organic and Medicinal Chemistry Source: Don and Linda Brodie Resource Fund for Innovation, WVU Eberly College
Award (amount): $38,000
Period: 07/01/2020–12/31/2021
Role: Co-PI (PI: Dudley)

6. REU Site: Research in Chemistry at West Virginia University
Source: National Science Foundation, Research Experiences for Undergraduates Program
Award (amount): CHE-1559654 ($300,000)
Period: 04/01/2016–07/01/2019

7. Medicinal Chemistry of Boron-Functionalized Non-Steroidal Anti-Inflammatory Drugs
Source: Don and Linda Brodie Resource Fund for Innovation, WVU Eberly College
Award (amount): $50,000
Period: 07/01/2018–06/30/2019
Role: Sole PI

8. Enhanced Surgical Visualization of Viable Tissue with Selective Dye
Source: Don and Linda Brodie Resource Fund for Innovation, WVU Eberly College
Award (amount): $48,000
Period: 07/01/2018–06/30/2019
Role: Co-PI (Lead PI: Boyd; Co-PI: Mertz, Popp)

9. MRI: Acquisition of an In Situ Infrared Spectroscopy System for Research and Teaching
Source: National Science Foundation, Major Research Instrumentation
Award (amount): CHE-1427136 ($175,827)
Period: 09/01/2014–08/31/2017
Role: Co-PI – Proposal Author (Lead PI: Wang; Co-PI: Goulay, Hoover, Popp, Shi)

10. Harnessing Zwitterions for Late Transition Metal Catalysis
Source: American Chemical Society
Award (amount): Petroleum Research Fund #53298-DNI3 ($100,000)
Period: 09/01/2013–08/31/2016
Role: Sole PI

11. Toward Shale Gas Utilization via Metal-Ligand Cooperativity
Source: National Research Center for Coal and Energy
Award (amount): Shale Gas Network Flash Funding Opportunity ($10,000)
Period: 05/01/2014–06/30/2014
Role: Sole PI

12. MRI: Acquisition of X-ray Diffractometer for Research and Teaching Source: National Science Foundation, Major Research Instrumentation
Award (amount): CHE-1336071 ($217,000)
Period: 09/01/2013–08/31/2016
Role: Co-PI (Lead PI: Wang; Co-PI: Hoover, Petersen, Popp, Shi)

13. MRI: Acquisition of a 400-MHz NMR Spectrometer for Research and Teaching Source: National Science Foundation, Major Research Instrumentation
    Award (amount): CHE-1228336 ($210,320)
    Period: 09/01/2012–08/31/2015
    Role: Co-PI (Lead PI: Gullion; Co-PI: Popp, Shi, Soderberg, Wang)
14. Modelling Approach to Assist in the Characterization of Glatiramoid Precursor Materials
    Source: Mylan Pharmaceuticals, Inc
    Award (amount): $55,000
    Period: 04/24/2012–04/23/2013
    Role: PI (shared PI status with Showalter and Tinsley)
15. Secondary Sphere Interactions in Organometallic Catalysis
    Source: National Science Foundation, Teragrid Award
    (amount): 60,000 SU (1 SU = 1 CPU Hour)
    Period: 07/01/2011–06/30/2013
    Role: Sole PI

I. STUDENTS TRAINED

CURRENT GRADUATE STUDENTS (CHEMISTRY DIVISION, UNDERGRADUATE INSTITUTION)

1. Randall Koziel (Organic, Indiana University of Pennsylvania) joined Fall 2020
2. Emily Heller (Organic, West Virginia University) joined Fall 2021

C. Eugene Bennett Department of Chemistry Fellowship (2022)

3. Amanda McKee (Organic, Millersville University of Pennsylvania) joined Fall 2023
4. Nathanial Selvaraj (Organic, West Virginia University) joined Fall 2023
5. David Shelly (Organic, University of Maryland Baltimore County) joined Fall 2024
6. Quinton Hood (Organic, West Virginia University) joined Fall 2025
7. Daniel Zink (Organic, Youngstown St. University) joined Fall 2025

CURRENT UNDERGRADUATE STUDENTS

1. Olivia Kennedy (BS Chemistry c/o 2026) Spring 2025 – present
2. Cole Botzenhart (BS Chemistry c/o 2027) Spring 2025 – present
3. David Zheng (BS Chemistry c/o 2027) Fall 2025 – present

Member of WVU Research Apprenticeship Program (2025-26)

4. Caitlyn Staiger (BS Chemistry c/o 2026) Spring 2026 – present
5. Mackenzie Davis (BS Chemistry c/o 2028) Spring 2026 – present

CURRENT POSTDOCTORAL OR VISITING SCHOLARS

1. Prof. Ajaya Kumar Sankara Warrier joined Fall 2022
   Current Position: Asst. Teaching Prof. of Chemistry
   Potomac State University, Keyser, WV

2. Dr. Alexa Martin joined Fall 2024
Current Position: Senior Research Scientist
GATC Health

FORMER GRADUATE STUDENTS

DOCTOR OF PHILOSOPHY

1. **Brian R. Nichols** (B.S., Drew Univ., 2009; M.S., Univ. of Vermont, 2011) 2011 – 2018
Ph.D. 2018
Dissertation: "*Late-Transition Metal Complexes with Ambiphilic Phosphinoborane Ligands: Synthesis, Characterization and Catalysis"*
First Position: Assistant Professor, West Liberty Univ., West Liberty, WV
Current Position: Teaching Associate Professor, West Virginia University, Morgantown, WV
C. Eugene Bennett Department of Chemistry HERF Fellowship (2011)
C. Eugene Bennett Department of Chemistry Fellowship (2012–2015)

2. **Trina Perrone** (Organic, St. Francis University) 2014 – 2019
Ph.D. 2019
Dissertation: "Copper-Catalyzed Boracarboxylation of Vinyl Arenes: Catalytic Efficiency and Synthetic Utility*"*
Current Position: Teaching Associate Professor, West Virginia University, Morgantown, WV
Outstanding First Year Graduate Teaching Assistant (2013)
Outstanding Advanced Graduate Teaching Assistant (2014)
Outstanding Advanced Graduate Teaching Assistant (2015)
C. Eugene Bennett Department of Chemistry Fellowship (2013–2017)
Eberly College of Arts and Sciences Outstanding Chemistry Graduate Teaching Assistant (2018)

3. **Jessica Rogers** (Organic, Fairmont State University) 2014–2019
Ph.D. 2019
Dissertation: "*In Situ* Infrared Spectroscopic Study of Iron-Catalyzed Hydromagnesiation of Vinyl Arenes*"*
Current Position: Research Scientist, Novatia LLC, Newton, PA
The Advanced Graduate Teaching Assistant Award (2018)
Forest Ferrell Award for Safety (2018)
C. Eugene Bennett Department of Chemistry Fellowship (2017–2018)

4. **Notashia Baughman** (Inorganic, West Virginia Wesleyan College) 2015–2020
Ph.D. 2020
Dissertation: *"Mechanistic Analysis of Reductive Boracarboxylation using Low Valent Copper and CO_2"*
First Position: Postdoctoral Fellowship National Institute of Occupational Safety and Health (NIOSH), Morgantown, WV

Current Position: Associate Service Fellow, NIOSH

C. Eugene Bennett Department of Chemistry Fellowship (2015-2017)

5. **Steven Knowlden** (Organic, University of Maryland College Park) 2016–2022

Ph.D. 2022

Dissertation: *"Synthetic Methods for Improved Scope and Efficiency of Copper-Catalyzed Regioselective Alkene Boracarboxylation"*

Current Position: The Johns' Hopkins University Advanced Physics Laboratory Postdoctoral Associate

C. Eugene Bennett Department of Chemistry Award (2017, 2020)

6. **Alexa Martin** (Organic, Univ. of Pittsburgh at Greensburg) 2017–2022

Ph.D. 2022 – co-advised with Prof. Gregory Dudley

Dissertation: *"Synthesis and Cyclotrimerization of Sulfonyl Enynes"*

First Position: Emory Institute of Drug Development Postdoctoral Associate

Current Position: Research Scientist, GATC LLC, Morgantown, WV

C. Eugene Bennett Department of Chemistry Fellowship (2018)

John R. Conard Chemistry Scholarship (2020)

Morrissey-Ropp Chemistry Scholarship (2021)

Eberly College of Arts and Sciences Outstanding Graduate Teaching Assistant (2022)

7. **Randika Abeysinghe** (Organic, University of Peradeniya, Sri Lanka) 2016–2022

Ph.D. 2022

Dissertation: *"Multifunctional Organoboron Compounds and Boralactonate Salts"*

Current Position: Research Scientist II, Sterling Pharma Solutions, Cary, NC

8. Carly Gordon (Organic, Wake Forest University) 2019–2024

C. Eugene Bennett Department of Chemistry Fellowship (2022)

Eberly College of Arts and Sciences Outstanding Chemistry Graduate Teaching Assistant (2023)

Current Position: Teaching Assistant Professor, Auburn University, Auburn, AL

9. Mason Hamilton (Organic, West Liberty University) 2020–2024

Current Position: Postdoctoral Fellow, National Institute for Drug Addiction, Bethesda, MD

10. Stephen Long (Organic, Indiana University of Pennsylvania) 2020–2024

Current Position: Postdoctoral Fellow, National Energy Technology Laboratory, Morgantown, WV

MASTER OF SCIENCE

1. **Rachael Pickens** (B.S., Louisiana State Univ., 2013) 2014 – 2016

M.S. 2016

Thesis: "*Four-membered Metallacycles Arising from an Ambiphilic Ligand: Synthesis and Characterization of Group IX Complexes"*

First Position: Ohio University Department of Chemistry – Ph.D. awarded Aug 2022

Current Position: Staff Scientist, The Chemours Company, Parkersburg, WV

2. **Kaitlyn Alcorn** (B.S., Pennsylvania State University Behrend., 2013) 2023 – 2024
   Coursework M.S. 2024
   First Position: Wake Forest Department of Chemistry – Pursuing Ph.D.
3. **Samantha Smitley** (B.S., California University of Pennsylvania, 2024) 2024 – present
   M.S. Coursework anticipated May 2026

NON-DEGREE GROUP MEMBERS

1. Frank Youmbi 2018
2. Behzad Farajidizaji 2011 – 2014
3. Merton Pajibo 2012 – 2013
4. Seyed Morteza Hosseyni 2011 – 2013
5. Haresh Thakellapalli 2011 – 2012

FORMER UNDERGRADUATE STUDENTS (CURRENT POSITION)

1. Sameul Guy Fall 2025
   Member of WVU Research Apprenticeship Program (2025-26)
2. Gracie Hines (WVU Pharmacy School) Fall 2022 – Spring 2025
   Member of WVU Research Apprenticeship Program (2022-23)
   B.S. Biochemistry WVU (Spring 2025)
3. Mj Jones Fall 2023 – Spring 2025
   B.S. Chemistry WVU (Spring 2025)
4. Quinton Hood (West Virginia University, PhD Student) Fall 2023 – Spring 2025
   B.S. Biochemistry WVU (Summer 2025)
5. Lindsay Taylor (University of Central Florida, Law Student) Fall 2024 – Spring 2025
   B.S. Biochemistry WVU (Spring 2025)
6. Kenny Zheng Fall 2021–Fall 2024
   Member of WVU Research Apprenticeship Program (2021-22)
   B.S. Chemistry WVU (Spring 2025)
7. Joseph Moler (BS Chemistry c/o 2026) Fall 2024
8. Janey Sowada (University of Minnesota, PhD Student) Fall 2023 – Spring 2024
   B.S. Chemistry WVU (Spring 2024)
9. Alexis Ravenscroft (UC Irvine, PhD Student) Spring 2020 – Summer 2023
   Member of WVU Research Apprenticeship Program (Spring 2020-Spring 2021)
   Member of WVU EXCEL Thesis Program (Fall 2021 – Spring 2023)
   B.S. Chemistry WVU (Spring 2023)
10. Megan Kline Summer 2023, Spring 2024
    B.S. Biochemistry WVU (Spring 2025)
11. Cody Tolliver Fall 2021 – Spring 2023
    B.S. Chemistry WVU (Spring 2023)
12. Mary O'Reilly (University of Wisconsin-Madison, PhD Student) Summer 2022
    B.S. Chemistry Truman State University (Spring 2025)
13. Anala Shultz (BS Biomedical Lab. Diagnostics c/o 2025) Fall 2021–Spring 2022
    Member of WVU Research Apprenticeship Program (2021-22)

14. Amanda Swistok (Research Assistant – Magee Womens' Hospital of UPMC)
Member of WVU Honor College EXCEL Thesis program
B.S. Biochemistry WVU (Spring 2021) Fall 2019 – Spring 2021
15. Zachary Duco (Assoc. Specialist – AstraZeneca) Fall 2019 – Spring 2020
B.A. Chemistry WVU (Spring 2021)
16. Christopher Nau (WVU c/o 2023) Fall 2019 – Fall 2020
Member of WVU Research Apprenticeship Program
17. Sachin Thaker (University of Pennsylvania c/o 2025)
Morgantown High School (Spring 2021) Spring 2020
18. Maxwell Reese (Ohio State University, PhD Student) Summer 2018 – Spring 2020
NASA West Virginia Space Grant Consortium Awardee (2019-20)
B.S. Chemistry WVU (Spring 2020)
19. Randall Koziel (West Virginia University, PhD Student) Summer 2019
WVU Chemistry REU Program (Summer 2019)
20. Mason Hamilton (West Virginia University, PhD Student) Summer 2019
WVU Chemistry REU Program (Summer 2019)
21. Amy Gregory (School of Medicine Marshall Univ., MD Student)
B.S. Chemistry WVU (Spring 2019) Fall 2017 – Spring 2019
22. Owen Hamilton (WVU School of Medicine c/o 2022) Spring 2018 – Fall 2018
B.A. Biochemistry WVU (Spring 2019)
23. Tyler Hamilton Fall 2016 – Fall 2018
B.S. Biochemistry WVU (Fall 2018)
24. Tiffany Taylor (Emory University, PhD Student) Summer 2018
25. Gregory Moore Fall 2017-Spring 2018
B.S. Chemistry WVU (Fall 2019)
26. Natalie Ziemer (Rensselaer Polytechnic Institute, PhD student) Summer 2017
27. Clayton Stewart (Univ. of Tennessee Biomed. Sci., PhD student)
B.S. Biochemistry WVU (Spring 2017) Fall 2016–Spring 2017
28. Nathan Mauck (WVU School of Medicine c/o 2020) Spring 2015–Fall 2016
B.A. Biochemistry WVU (Spring 2017)
29. Kayla Kroner (University of Pittsburgh, PhD student) Summer 2016
30. Trevor Butcher (UC Berkeley, PhD student) Summer 2013-Summer 2016
B.S. Chemistry WVU (Spring 2016)
NSF Graduate Research Fellowship awardee (Spring 2016)
2015 Amgen Summer Fellow – UC Berkeley with Prof. John Hartwig
Goldwater Fellowship awardee (2014 – 2016)
NASA West Virginia Space Grant Consortium Awardee (Fall 2013)
31. Edward (Ted) McClain (U. of Michigan, PhD student) Summer 2015-Summer 2016
B.S. West Virginia University (Spring 2016)
NSF Graduate Research Fellowship Honorable Mention (Spring 2016 & 2017)
32. Alexander Battin (WVU School of Medicine c/o 2021) Fall 2015-Spring 2016
B.S. Chemistry WVU (Spring 2017)
33. Patrick Bayly (Colombia University, PhD student in Creative Arts) Fall 2015
34. Leandra Forte (UCLA, PhD student) Summer 2015
35. Kyle Smith (Marshall Univ. School of Medicine, MD student) Fall 2013-Fall 2014
B.A. Exercise Physiology WVU (Spring 2015)
36. Cody Mullins (WVU School of Medicine c/o 2021) Fall 2012-Fall 2013

B.A. Chemistry WVU (Spring 2015)

37. Amy Long Spring 2014
    B.A. Chemistry WVU (Spring 2014)
38. Jonathan Turner, MD (Medical Univ. of South Carolina MD/PhD) Fall 2012-Spring 2013
    B.S. Chemistry & Biology WVU (Spring 2013)
    NASA West Virginia Space Grant Consortium Awardee (2012-13)
39. Nathan Burock (Western Reserve Hospital, Resident Physician) Fall 2012-Spring 2013
    B.A. Chemistry WVU (Spring 2013)
40. Frank Youmbi Summer 2012
41. Ian Murray (North Carolina State Univ., PhD student) Spring 2012
    B.S. Chemistry WVU (Spring 2014)

FORMER POSTDOCTORAL OR VISITING SCHOLARS

1. Dr. Vaishali Vajpayee Summer 2013 – Fall 2014
   Ph.D. 2007 – University of Rajasthan, JAIPUR, India
   Position after WVU: Research Scientist, Centre for Probe Development and Commercialization (CPDC); McMaster University, Hamilton, Ontario, CN
   Current Position: Independent business owner – CEO of E-SROT, LLC
2. Prof. Ajaya Warrier Spring 2014 – Summer 2016
   Ph.D. 1994 – Nat. Inst. for Interdisciplinary Sci. & Tech. Trivandrum, India
   Current Position: Instructor; The Pennsylvania State University, Fayette County
3. Prof. Rabah Nafa Alsulami Fall 2017 – Spring 2019
   Ph.D. 2016 – Bowling Green State University, Bowling Green, OH
   Current Position: Asst. Prof.; Umm Al-Qura University (UQU), Mecca, Saudi Arabia
4. Prof. Brian R. Nichols Fall 2019 – Summer 2022
   Ph.D. 2017 – West Virginia University, Morgantown, WV
   Past Position: Asst. Prof.; West Liberty University, West Liberty, WV

J. CLASSROOM TEACHING

Instructor: Organometallic Chemistry (CHEM 521) 2011, 2013, 2016–2019, 2026
Course Description: graduate course on organometallic chemistry

Instructor: Advanced Structure Determination using Spectroscopic Methods (CHEM 793C, 793G, 533) 2012, 2015, 2016, 2018, 2020, 2022, 2025
Course Description: graduate course on the use of spectroscopy/spectrometry (NMR, IR, UV/vis, MS) for the structural characterization of organic molecules

Instructor: Special Topics–Bioorganic Chemistry (CHEM 793D) 2012
Course Description: graduate survey course on various topics in bioorganic chemistry and chemical biology

Instructor: Organic Chemistry II (CHEM 234) 2015, 2019, 2020, 2021
Course Description: introductory 2nd semester course of organic chemistry

Instructor: Honors Organic Chemistry I (CHEM 498) 2017
Course Description: 1st semester organic chemistry advanced topics survey

Instructor: Honors Organic Chemistry II (CHEM 498) 2018

Course Description: 2nd semester organic chemistry advanced topics survey

Instructor: Organic Chemistry I Laboratory (CHEM 235) 2011-2017

Course Description: 1st semester organic chemistry laboratory

Instructor: Organic Chemistry II Laboratory (CHEM 236) 2012-2017

Course Description: 2nd semester organic chemistry laboratory

Instructor: Graduate Seminar: Organic Division (CHEM 796) 2012-13, 2017-2021

Course Description: graduate student literature and research presentations

Instructor: Honors EXCEL Thesis Capstone (HONR 450) 2019

Course Description: introductory thesis research course

Instructor: Honors EXCEL Thesis Capstone (HONR 451) 2021

Course Description: summative experience research course

Instructor: Chemistry Independent Study (CHEM 795) 2021-2023

Course Description: assessment of student who pursues an external internship

Instructor: Chemistry Capstone: Chemical Literature (CHEM 401) 2022-2023

Course Description: study of techniques for locating, utilizing, and compiling information needed by the research worker in chemistry

Instructor: Chemistry Capstone: Undergraduate Seminar (CHEM 403) 2022-2023

Course Description: instruction in design and presentation of topics of current chemical interest

Instructor: Chemistry Capstone: Communication in Chemistry (CHEM 402) 2023-2024

Course Description: study of techniques for locating, utilizing, and compiling information needed by the research worker in chemistry and conveying that information in written and oral form

K. Professional Service

Manuscript Peer-Reviewer (Ad hoc)

1. *Journal of the American Chemical Society*
2. *Nature Communications*
3. *Catalysis Science & Technology*
4. *Chemical Science*
5. *Chemical Communications*
6. *ACS Catalysis*
7. *Organic Letters*
8. *Dalton Transactions*
8. *Green Chemistry*
9. *Inorganic Chemistry*
10. *Inorganics*
11. *Organometallics*
12. *ACS Chemical Neuroscience*
13. *Physical Chemistry Chemical Physics*
14. *Synthesis*
15. *Tetrahedron*
16. *Tetrahedron Letters*
17. *ChemCatChem*

18. *Advanced Synthesis & Catalysis*
19. *New Journal of Chemistry*

Research Grant Reviewer

1. NSF Division of Chemistry SYN/CAT Proposal Reviewer (Panel) 2018, 2022, 2023, 2026
2. NSF Division of Chemistry REU Proposal Reviewer (Panel) 2020, 2023
3. NSF Division of Chemistry Proposal Reviewer (Ad Hoc) 2012, 2015, 2022, 2024
4. Department of Energy Proposal Reviewer (Ad Hoc) 2022
5. ACS PRF Proposal Reviewer (Ad Hoc) 2012, 2014, 2017–2019
6. WV Program to Stimulate Competitive Research Proposal Reviewer 2017

Conferences, Symposia, and Workshops

1. Session Chair, ACS Central Regional Meeting, Pittsburgh, PA November 2024
2. ACS Department Chair Workship, Washington, DC June 2024
3. ACS: Inclusive Graduate Education (IGEN) Equity Workshops, Virtual June 2024
4. Center for Improvement of Mentored Experiences in Research (CIMER) Entering Mentoring Training, West Virginia University November 2023
5. Navigating Mentoring for Undergraduate Research Mentors Workshop Panelist, West Virginia University Office of Undergraduate Research November 2022
6. Optimizing Inclusive and Culturally Responsive Mentoring Practices, West Virginia University March 2022
7. Center for Improvement of Mentored Experiences in Research (CIMER) Entering Mentoring Training: Facilitator, Entering Research: Train the Trainer Workshop, Virtual May 2021
8. Facilitator, Entering Research: Train the Trainer Workshop, Madison, WI Feb 2020
9. Session Co-Chair, ACS Central Regional Meeting, Midland, MI May 2019

Department, College, and University

1. Chair, Chemistry Executive Committee 2024 – present
2. Member, Chemistry Safety Committee 2024 – present
3. Chair, Chemistry Graduate Studies Committee 2019 – 2024
4. Member, Chemistry Executive Committee 2021 – 2024
5. Member, WVU Graduate Council 2021 – 2024
6. Chair & Member, ECAS Ad hoc Student Appeals Committee 2021 – 2024
7. Member, ECAS Undergraduate Res. Symposium Planning Committee 2020 – 2023
8. Member, Chemistry Alumni Support Committee 2023 – 2024
9. Member, Distinction in Mentoring Undergraduate Students Selection Committee 2023
10. Member, WVU OGEL Non-Accredited Colleges Policy Committee 2023
11. Member, Eberly College Curriculum and Academic Policy Committee 2022 – 2023
    Eberly College Curriculum and Academic Quality Committee 2020 – 2022
12. Member, Chemistry Inclusive Excellence Committee 2022 – 2023

13. Member, Chemistry TA Support Subcommittee 2022 – 2023
14. Member, Undergraduate Studies Committee 2021 – 2022
15. Chair, Chemistry Tenure-Track Faculty Search Committee 2021 – 2022
16. Member, Instrumentation Specialist Search Committee 2020 – 2022
17. Member, Chemistry Curriculum Committee 2019 – 2021
18. Member, Chemistry Accreditation and Assessment Reports Committee 2019 – 2021
19. Member, Chemistry Tenure-Track Faculty Search Committee 2019 – 2020
20. Member, Shops, Major Instruments, and Computers Committee 2018 – 2020
21. Member, WVU Veterans' Committee 2018 – 2019
22. Member, Chemistry Space Allocation and Renovations Committee 2018 – 2019
23. Member, Organic Chemistry Committee 2017 – 2019
24. Member, Alumni Support Committee 2017 – 2019
25. Member, Chemistry Department By-Laws Review Committee 2018 – 2019
26. Member, Chemistry Graduate Studies Committee 2011 – 2019
27. Chair, Software Online, and Library Resources Committee 2017 – 2018
28. Member, Chemistry Curriculum Task Force 2016 – 2017
29. Member, Chemistry Organic Faculty Search Committee 2015 – 2016
30. Member, Bennett Careers for Chemists 2014 – 2017
31. Member, Chemistry Inorganic Faculty Search Committee 2013 – 2014
32. Member, Chemistry NMR Development Committee 2012 – 2016
33. Member, High Performance Computing Steering Committee 2011 – 2013
34. Member, Eberly College Grants Administrator Search Committee 2012 – 2013
35. Member, Chemistry Catalysis Faculty Search Committee 2011 – 2012
36. Member, Eberly College Grants Development Specialist Search Committee 2012
37. Member, Eberly College Project Management Specialist Search Committee 2012

GRADUATE STUDENT COMMITTEES (DIVISION OR COLLEGE – *DEGREE*, ADVISOR)

1. Adefolake Ojanuga (Analytical – Valentine) 2025 – present
2. Janefrancis Chukwu (Organic – Geldenhuys & **Popp**) 2025 – present
3. Sodiq Muraina (Inorganic – Dolinar) 2024 – present
4. Ibukunoluwa Olaosebikan (Organic – Karatas Bristow) 2024 – present
5. Abra Dadum (Organic – Karatas Bristow) 2023 – present
6. Vahid Loftikalajahi (Organic – Karatas Bristow) 2023 – present
7. Pegah Norouzi (Organic – Karatas Bristow) 2023 – present
8. Nicole Krahulik (Organic – Geldenhuys & **Popp**) 2023 – present
9. *Courtney Glenn (Organic – Hilton & Odeleye) 2023 – 2024*
10. *Christopher Bias (Organic – Hilton) 2023 – 2024*
11. *Eustace Amadi (Organic – Dudley) 2023 – 2024*
12. Amanda Reynolds (Inorganic – Dolinar) 2023 – present
13. Ivie Minney (Inorganic – Dolinar) 2023 – present

14. Sohag Ahmed (Organic – Valentine) 2023 – present
15. *Nicodemus Panchen (Inorganic – Milsmann) 2023 – 2024*
16. *Matthew Ross (Organic – Hilton) 2023 – 2024*
17. *Ngheim Tieu (Chemical Education – Odeleye) 2023 – 2024*
18. *Marisa Tordella (Inorganic – Milsmann) 2023 – 2025*
19. Emmanuel Ubana (Physical – Goulay) 2023 – present
20. *Morgan Dykstra (Organic – Geldenhuys & **Popp**) 2022 – 2024*
21. *Blessing Bamisaye (Inorganic – Milsmann) 2022 – 2024*
22. Emily Ruiz (Analytical – Jackson) 2022 – present
23. Stafford Primeaux (Organic – Hoover) 2021 – 2022
24. Zachary Romestan (Physics – Romero) 2021 – present
25. Scott Saylor (Pharmacy – Geldenhuys) 2021 – 2025
26. *Hannah Scott (Physical – Mertz & Legleiter) 2021 – 2025*
27. *KD Tanvir Ahmed (Organic – Dudley) 2021 – 2025*
28. *Liu Li (Organic – Wang & **Popp**) 2021 – 2025*
29. *Ebenezer Newton (Physical – Geldenhuys & Legleiter) 2021 – 2023*
30. Matheus Barbosa Belchoir (Physical – Geldenhuys & Karatas Bristow) 2020 – present
31. *Kristen Nerbecki (Organic – M.S., Dudley) 2020 – 2022*
32. Sadia Noor (Inorganic – Dolinar) 2020 – present
33. *Jose Rodriguez (Inorganic – Milsmann) 2020 – 2024*
34. *Chathuranga Siriwardhana (Physical – Ph.D., Legleiter) 2019 – 2023*
35. *Dylan Leary (Inorganic– Ph.D., Milsmann) 2019 – 2022*
36. *Robert Gaston (Organic – Ph.D., Dudley) 2019 – 2023*
37. *Rabina Basnet (Organic – Hoover & **Popp**) 2019 – 2024*
38. *Kyle Billings (Physical – Ph.D., Mertz & Legleiter) 2019 – 2023*
22. Jordan Chapman (Chemical Engineering – Dinu) 2018 – 2020
23. *Amir Tavakoli (Organic – Ph.D., Dudley) 2018 – 2023*
24. *Rebekah Krupa (Inorganic – Ph.D., Hoover) 2018 – 2023*
25. *Michael Stanton (Organic – Ph.D., Hoover) 2018 – 2023*
26. *Nandihini Ranganathan (Analytical – Ph.D., Li) 2018 – 2021*
27. *Nicholas Frazee (Physical – Ph.D., Mertz) 2018 – 2022*
28. *Md Shohel Rana (Organic – Ph.D., McLaughlin & Dudley) 2018 – 2021*
29. *Jordan Martinez (Inorganic – Ph.D., Milsmann) 2018 – 2022*
30. *Blaine McClay (Organic – Soderberg) 2018 – 2023*
31. *Kushani Attanayake (Analytical – Ph.D., Valentine) 2018 – 2021*
32. *Ahmed Kiana Karanji (Analytical – Ph.D., Valentine & Mertz) 2018 – 2020*
33. *Harvey Fulo (Organic – Ph.D., Dudley) 2017 – 2021*
34. *Violeta Burns Casamayor (Physical – Ph.D., Mertz) 2017 – 2021*
35. *Phuong Minh Do (Inorganic – Ph.D., Milsmann) 2017 – 2022*
36. *Ashikur Rahman (Organic – Ph.D., Soderberg) 2017 – 2022*

37.	*Yoon Lee*	*(Physical – Ph.D., Goulay)*	*2016 – 2022*
38.	*Robert Crovak*	*(Organic – Ph.D., Hoover)*	*2016 – 2020*
39.	*Jiaqi Liu*	*(Organic – Ph.D., Hoover)*	*2016 – 2020*
40.	*Erik Sefah*	*(Physical – Ph.D., Mertz)*	*2016 – 2021*
41.	*Brett Hakey*	*(Inorganic – Ph.D., Milsmann)*	*2016 – 2020*
42.	*Merfat Aljahdli*	*(Organic – Ph.D., Wang)*	*2016 – 2020*
43.	Anthony Moncrief	(Physical – Jaffe)	2018 – 2019
44.	*Yu Zhang*	*(Organic – Ph.D., Milsmann)*	*2015 – 2019*
45.	*Hanyu Fan*	*(Physical – Ph.D., Goulay)*	*2014 – 2019*
46.	*Aaron Honeycutt*	*(Organic – Ph.D., Hoover)*	*2015 – 2018*
47.	*Ganesh Ghimire*	*(Organic – Ph.D., Soderberg)*	*2014 – 2018*
48.	*Katherine Lambson*	*(Organic – Ph.D., Soderberg)*	*2014 – 2018*
49.	*Shuangjiang Li*	*(Organic – Ph.D., Wang)*	*2014 – 2018*
50.	*Behzad Farajidizaji*	*(Organic – Ph.D. Wang)*	*2017*
51.	Forough Jahanabazi	(Inorganic, Milsmann)	2017 – 2018
52.	*Sravan Thummanapelli*	*(Organic – Ph.D., Soderberg)*	*2016*
53.	*Rong Cai*	*(Organic – Ph.D., Soderberg)*	*2015 – 2016*
54.	*Yanwei Zhang*	*(Organic – Ph.D., Soderberg)*	*2015*
55.	*Xiaohan Ye*	*(Organic – Ph.D., Shi)*	*2015*
56.	Bioliang Dong	(Organic, Shi)	2015
57.	*Chitrak Gupta*	*(Physical – Ph.D., Mertz)*	*2015 – 2018*
58.	*Yilin Zhang*	*(Organic – Ph.D., Soderberg)*	*2015 – 2016*
59.	Maren Prediger	(Analytical, Boyd)	2015 – 2017
60.	*Hossein Maleki*	*(Analytical – Ph.D., Valentine)*	*2014 – 2017*
61.	*Jun Li*	*(Organic – M.S., Hoover)*	*2014 – 2015*
62.	*Lijun Chen*	*(Organic – M.S., Hoover)*	*2013 – 2015*
63.	*John Riedesel*	*(Organic – M.S., Hoover)*	*2013 – 2016*
64.	Raymond Remus	(Organic, Hoover)	2013 – 2014
65.	Stephen Motika	(Organic, Shi)	2013 – 2016
66.	*Nurul Ansari*	*(Organic – Ph.D., Soderberg)*	*2013 – 2017*
67.	*Gregory Donahoe*	*(Analytical – Ph.D., Valentine)*	*2013 – 2016*
68.	*Srinath Chowdary Velega*	*(Chemical Engineering – Ph.D., Anderson)*	*2013 – 2014*
69.	*Julie Vrana*	*(Analytical – Ph.D., Boyd)*	*2012 – 2015*
70.	Doreen Makaya	(Organic, Wang)	2012 – 2013
71.	*Changfeng Huang*	*(Organic – Ph.D., Wang)*	*2011 – 2016*
72.	*Ichuk Karki*	*(Physical – Ph.D., Gullion)*	*2011 – 2014*

OTHER SERVICE

1.	Associate Member, ACS Committee on Economic and Participant Activities	2025
2.	PhD Dissertation Opponent (Tromsø University, Norway)	2024

3. Counselor for American Chemistry Society Northern West Virginia Local Section 2023 – present
4. Center for Improvement of Mentored Experiences in Research (CIMER) Principal Facilitator 2020 – 2023
5. Beckman Scholar Faculty Mentor 2020 – 2023
6. WVU Fulbright Pre-Academic Program – Graduate Director Panel 2023
7. *WVU Grad Life 601:Organic, Inorganic, Computational* Podcast Interview 2022
   https://www.thedaonline.com/podcasts/gradlife_601_podcast/gradlife-601-organic-inorganic-and-computational-chemistry/article_f6403e1c-2a69-11ed-b2da-6b321833d0a9.html
8. WVU Student Veteran Friendly Advisor for Department of Chemistry 2018 – 2022
9. External Evaluator for Texas Tech University Dept. of Chem. Graduate Program 2022
10. Eberly College of Arts and Sciences Research Roundup Panelist 2022
11. External Evaluator for Indiana University of Pennsylvania Dept. of Chemistry 2021
12. Center for Improvement of Mentored Experiences in Research (CIMER) Trained Facilitator 2018 – 2019
13. Textbook Review: Spessard & Miessler *Organometallic Chemistry,* 4th edit.; Oxford University Books: New York, 2019
14. Delegation member for *WVU-VT Dialog on Energy and Related Topics* meeting 2012
15. Delegation member for WV Idea/EPSCoR States Conference on the Hill 2013
16. Textbook Review: Karty, J. *Organic Chemistry,* 2nd edit.; W. M. Norton: New York, 2017