

CHEMISTRY

REFEREED JOURNAL PUBLICATIONS

- Davis, C. M.**, Hamilton, G. A., & Schnee, V. P. (2007). Hydride abstraction from the octahydrotriborate ion and formation of a bridged triborane(7)-phosphane complex. *Phosphorus, Sulfur and Silicon and the Relation Elements*, 182, 1641-1644.
- Davis, C. M.**, & Curran, K. A. (2007). Manipulation of a Schlenk line: Preparation of tetrahydrofuran complexes of transition-metal chlorides. *Journal of Chemical Education*, 84, 1822-1823.
- Davis, C. M.** (2005). Fifty ways to make boric acid (with apologies to Paul Simon). *Journal of Chemical Education*, 82, 541.
- Davis, C. M.**, & Mauck, M. C. (2003). Titrimetric determination of carbon dioxide in a heterogeneous sample ("Pop Rocks"). *Journal of Chemical Education*, 80, 552-553.
- Bektesevic, S., Beier, J. C., Chen, L., Eghbali, N., King, S., **Mullins, R. J.**, et al. (2005). Green challenges: Student perspectives from the 2004 ACS-PRF Summer School on Green Chemistry. *Green Chemistry*, 7, 403-407.

BOOK CONTRIBUTIONS

- Gomez, K., & **Hopkins, B. M.** (2004). Gas chromatography method for analysis of benzyl alcohol in air. In P. F. O'Connor & P. F. Schlecht (Eds.), *NIOSH Manual of Analytical Methods* (4th ed.). Cincinnati, OH: National Institute for Occupational Safety and Health.
- Mullins, R. J.**, Hoffman, M. D., & Kelly, A. (2007). Krapcho decarboxylation. In J. J. Li (Ed.), *Name reactions for functional group transformation* (pp. 635-644). Hoboken, NJ: John Wiley & Sons.
- Mullins, R. J.**, & Corbett, M. T. (2007). Davis chiral oxaziridine reagents. In J. J. Li (Ed.), *Name reactions for functional group transformation* (pp. 22-39). Hoboken, NJ: John Wiley & Sons.
- Mullins, R. J.**, Gregg, J. J., & Hamilton, G. A. (2007). Luche reduction. In J. J. Li (Ed.), *Name reactions for functional group transformation* (pp. 112-122). Hoboken, NJ: John Wiley & Sons.
- Mullins, R. J.**, Knapp, A. R., & Jolley, S. (2007). Tamao-Kumada-Fleming oxidation. In J. J. Li (Ed.), *Name reactions for functional group transformation* (pp. 237-247). Hoboken, NJ: John Wiley & Sons.
- Mullins, R. J.**, & Azman, A. M. (2006). Imidazoles. In J. J. Li & G. W. Gribble (Eds.), *Palladium in heterocyclic chemistry* (2nd ed., pp. 335-364). Amsterdam, Netherlands: Pergamon.

- Mullins, R. J., & Azman, A. M.** (2006). Thiazoles and benzothiazoles. In J. J. Li & G. W. Gribble (Eds.), *Palladium in heterocyclic chemistry* (2nd ed., pp. 297-335). Amsterdam, Netherlands: Pergamon.
- Mullins, R. J., & Williams, E. R.** (2004). Fiesselmann thiophene synthesis. In J. J. Li (Ed.), *Name reactions in heterocyclic chemistry* (pp. 184-192). Hoboken, NJ: John Wiley & Sons.
- Mullins, R. J., & Williams, E. R.** (2004). Hinsberg synthesis of thiophene derivatives. In J. J. Li (Ed.), *Name reactions in heterocyclic chemistry* (pp. 199-206). Hoboken, NJ: John Wiley & Sons.
- Mullins, R. J., & Williams, E. R.** (2004). Paal thiophene synthesis. In J. J. Li (Ed.), *Name reactions in heterocyclic chemistry* (pp. 207-217). Hoboken, NJ: John Wiley & Sons.

REVIEWS & CREATIVE WRITING

- Hopkins, B. M.** (2004). [Review of 14 chapters of the book *General, organic, and biological chemistry: An integrated approach*]. Hoboken, NJ: Wiley.
- Hopkins, B. M.** (2004). [Review of the book chapter *Nitroalkanes by gas chromatography*. In *NIOSH manual of analytical methods*]. Cincinnati, OH: National Institute for Occupational Safety and Health.

PRESENTATIONS AT ACADEMIC CONFERENCES

- Baba, A., Timm, S., Sueva, E., Baker, S., & Jolley, S.** (2007). *Effects of neighboring substituents on the acid-base properties of ruthenium complexes*. Poster presented at the 233rd National American Chemical Society Meeting, Chicago, IL.
- Baba, A., Timm, S., & Jackson, A.** (2007). *Effect of pH on the excited state properties of two ruthenium complexes*. Poster presented at the 233rd National American Chemical Society Meeting, Chicago, IL.
- Baba, A., Timm, S., Sueva, E., Baker, S., & Jackson, A.** (2007). *Effect of substituents and pH on the excited state properties of ruthenium complexes*. Paper presented at the 39th Central Regional Meeting of the American Chemical Society, Cincinnati, OH.
- Davis, C. M., Chess, D., Hamilton, G., & Jones, R. M.** (2007). *A homoleptic copper-octahydrotriborate complex: Synthesis, reactivity, and density-functional-theory calculations*. Paper presented at the Central Regional American Chemical Society Meeting, Cincinnati, OH.
- Davis, C. M.** (2006). *I dream of Mendeleev*. Poster presented at the Nineteenth Biennial Conference on Chemical Education, Purdue University, West Lafayette, IN.

Davis, C. M., Chess, D. J., Curran, K. A., & Schnee, V. P. (2004). *Interactions of the arachno-octahydroxotriborate anion with transition-metal halides*. Poster presented at the Central Regional Meeting of the American Chemical Society, Indianapolis, IN.

Fenlon, E. E. (2003). *Silatranyl-nucleosides: Synthesis and medicinal/ribozyme applications*. Invited lecture presented at Wright State University, Dayton, OH.

Kepler, R. N., & **Hopkins, B. M.** (2007). *Development of a method for the analysis of p-arsanilic acid in air*. Poster presented at the 233rd National American Chemical Society Meeting, Chicago, IL.

Hopkins, B. M., Hoffman, M. D., & Kepler, R. N. (2007). *Analytical method for determination of roxarsone and p-arsanilic acid using an air sampling method coupled with gas chromatography/mass spectrometry*. Paper presented at the 39th Central Regional Meeting of the American Chemical Society, Cincinnati, OH.

Blessinger, M. E., & **Hopkins, B. M.** (2007). *Analytical method for determination of arsenic in chicken*. Poster presented at the 233rd National American Chemical Society Meeting, Chicago, IL.

Hopkins, B. M., & Dickinson, M. D. (2006). *Analytical method for the determination of roxarsone using an air sampling method coupled with gas chromatography/mass spectrometry*. Poster presented at the Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Orlando, FL.

Hopkins, B. M. (2005). *Building a co-op relationship with a local agency: Xavier University chemistry department describes its experience with a local federal agency*. Paper presented at the Iota Sigma Pi, Radium Chapter Meeting, Cincinnati, OH.

Hopkins, B. M. (2004). *Air sampling method for dibutyltin chloride using high performance liquid chromatography (HPLC) and inductively coupled plasma (ICP) spectroscopy*. Poster presented at the National Conference on Undergraduate Research, Indianapolis, IN.

McLoughlin, D. J., & Portman, E. (2007). NMR method to distinguish long range structural effects via a common Diels-Adler reaction. Poster presented at the 233rd National American Chemical Society Meeting, Chicago, IL.

Mullins, R. J., Corbett, M. T., Oni, A. A., & Makley, D. M. (2007). *Efforts toward the synthesis of (+)-kalkitoxin and some analogs*. Poster presented at the 39th Central Regional Meeting of the American Chemical Society, Cincinnati, OH.

Mullins, R. J., Corbett, M. T., Oni, A. A., Hellman, M. J., & Makley, D. M. (2007). *Efforts toward the synthesis of (+)-kalkitoxin and some analogs*. Poster presented at the 40th National Organic Symposium, Durham, NC.

- Corbett, M. T., Oni, A. A., & **Mullins, R. J.** (2007). *Efforts toward the synthesis of (+)-kalkitoxin*. Poster presented at the 233rd National Meeting of the American Chemical Society, Chicago, IL.
- Makley, D. M., Corbett, M. T., & **Mullins, R. J.** (2007). *Medicinal chemistry of (+)-kalkitoxin: Derivatives of the aliphatic core*. Poster presented at the 233rd National Meeting of the American Chemical Society, Chicago, IL.
- Hellman, M. J., Cammett, N. W., Valdisseri, A. A., & **Mullins, R. J.** (2007). *Medicinal chemistry of (+)-kalkitoxin: Derivatives of the aliphatic core*. Poster presented at the National Meeting of the American Chemical Society, Chicago, IL.
- Gregg, J. J., & **Mullins, R. J.** (2007). *Synthesis of lasiol via stereoselective 1,4-conjugate addition*. Poster presented at the 233rd National Meeting of the American Chemical Society, Chicago, IL.
- Oni, A. A., Merling, E., & **Mullins, R. J.** (2007). *Efforts toward the synthesis of (+)-kalkitoxin and some analogs*. Poster presented at the Ralph and Helen Oesper Symposium, University of Cincinnati, Cincinnati, OH.
- Wilding, E. E., Gregg, J. J., & **Mullins, R. J.** (2007). *Synthesis of lasiol via stereoselective 1,4-conjugate addition*. Poster presented at the Ralph and Helen Oesper Symposium, University of Cincinnati, Cincinnati, OH.
- Ramey, A. R., Chormanski, K. D., & **Mullins, R. J.** (2006). *Development of methods for asymmetric installation of a hydroxymethyl group*. Poster presented at the National Conference on Undergraduate Research (NCUR), Asheville, NC.
- Azman, A. M., Rohlf, R. L., & **Mullins, R. J.** (2005). *Synthesis and medicinal chemistry of kalkitoxin*. Poster presented at the National Conference on Undergraduate Research (NCUR), Lexington, VA.