

THE UNIVERSITY OF BRITISH COLUMBIA

Publications Record

SURNAME: Sammis

FIRST NAME: Glenn

Initials: GM

MIDDLE NAME(S): Martin

Date: September 3, 2020

1. REFEREED PUBLICATIONS

(a) *Journals*

Note: the corresponding author is indicated with a *, *A* = article, *C* = communication. My students are noted in boldface.

- 33) C **Foth, P. J.**; Malig, T. C.; **Yu, H.**; **Bolduc, T. G.**; Hein, J.*; Sammis, G. M.* “Halide-Accelerated Acyl Fluoride Formation Using Sulfuryl Fluoride,” *Org. Lett.* **2020**, *22*, 6682-6686.
- 32) C Li, T.; **Mo, J. Y.**; Weekes, D. M.; Dettelbach, K. E.; Jansonius, R.; Sammis, G. M.*; Berlinguette, C. P.* “Photoelectrochemical Decomposition of Lignin Model Compound on a BiVO₄ Photoanode.” *ChemSusChem* **2020**, *14*, 3622-3626.
- 31) C **Mo, J. Y.**; **Epifanov, M.**; **Hodgson, J. W.**; **Dubois, R.**; Sammis, G. M.* “One-Pot Substitution of Aliphatic Alcohols Mediated by Sulfuryl Fluoride,” *Chem. Eur. J.* **2020**, *26*, 4958-4962
- 30) C Koperniku, A.; **Foth, P.**; Sammis, G. M.; Schafer, L.* “Zirconium Hydroaminoalkylation. An Alternative Disconnection for the Catalytic Synthesis of α -Arylated Primary Amines,” *J. Am. Chem. Soc.* **2019**, *141*, 18944-18948.
- 29) C **Lee, C.**; Ball, N. D.*; Sammis, G. M.* “One-pot fluorosulfurylation of Grignard reagents using sulfuryl fluoride,” *Chem. Commun.* **2019**, *55*, 14753-14756.
- 28) C **Foth, P. J.**; **Gu, F.**; **Bolduc, T. G.**; **Kanani, S. S.**, Sammis, G. M.* “New sulfuryl fluoride-derived alkylating reagents for the 1,1-dihydrofluoroalkylation of thiols,” *Chem. Sci.* **2019**, *10*, 10331-10335.
- 27) C **Epifanov, M.**; **Foth, P. J.**; **Gu, F.**; **Barrillon, C.**; **Kanani, S. S.**; Higman, C. S.; Hein, J. E.; Sammis, G. M.* “One-Pot 1,1-Dihydrofluoroalkylation of Amines using Sulfuryl Fluoride,” *J. Am. Chem. Soc.* **2018**, *140*, 16464-16468.
- 26) C **Zhang, W.**; **Mo, J. Y.**; **Lim, K.**; **Wang, C.**; Sammis, G. M.* “Regiocontrolled and Stereoselective Syntheses of Tetrahydrophthalazine Derivatives using Radical Cyclizations,” *Chem. Eur. J.* **2018**, *25*, 976-980.
- 25) A Li, T.; **Kasahara, T.**; He, J.; Dettelback, K.; Sammis, G. M.*; Berlinguette, C. P.* “Photoelectrochemical Oxidation in Organic Media,” *Nat. Commun.*, **2017**, *8*, 390.
- 24) C **Chatalova Sazepin, C.**; **Binayeva, M.**; **Epifanov, M.**; **Zhang, W.**; **Foth, P.**; **Amador, C.**; **Jagdeo, M.**; **Boswell, B.**; Sammis, G. M. “XeF₂-Mediated Fluorodecarboxylations for the Efficient Syntheses of Di- and Trifluoromethoxyarenes,” *Org. Lett.*, **2016**, *18*, 4570-4573.
- 23) R **Chatalova-Sazepin, C.**; Hemelaere, R.; Paquin, J.-F.*; Glenn M. Sammis* “Recent Advances in Radical Fluorination,” *Synthesis*, **2015**, *47*, 2554-2569.

- 22) C **Chatalova-Sazepin, C.**; Wang, Q.; Sammis, G. M. Zhu, J.* “Copper-Catalyzed Intermolecular Carboetherification of Unactivated Alkenes by Alkyl Nitriles and Alcohols,” *Angew. Chem. Int. Ed.* **2015**, *54*, 5443-5446.
- 21) A **Leung, J. C. T.**; Sammis, G. M.* “Radical Decarboxylative Fluorination of Aryloxyacetic Acids using NFSI and a Photosensitizer,” *Eur. J. Org. Chem.*, **2015**, *2015*, 2197-2204.
- 20) A **Zhu, H.**; **Leung, J. C. T.**; Sammis, G. M.* “Strategies to Control Alkoxy Radical-Initiated Relay Cyclizations for the Synthesis of Oxygenated Tetrahydrofuran Motifs,” *J. Org. Chem.* **2015**, *80*, 965-979.
- 19) C **Campbell, N.**; Sammis, G. M.* “Single-Electron/Pericyclic Cascade for the Synthesis of Dienes,” *Angew. Chem. Int. Ed.* **2014**, *53*, 3570-3572. (Designated “hot” paper in Angewandte Chemie”)
- 18) C **Rueda-Becerril, M.**; Mahé, O.; Drouin, M; Majewski, M. B.; **West, J. G.**; Wolf, M. O.; Sammis, G. M.*; Jean-François Paquin.* “Direct C-F bond formation using photoredox catalysis” *J. Am. Chem. Soc.* **2014**, *136*, 2637-2641.
- 17) C Musgrove, A; **Bridges, C. R.**; Sammis, G. M.; Bizzotto, D.* “Potential-Dependent Interaction of DOPC Liposomes with an Octadecanol-Covered Au(111) Surface Investigated Using Electrochemical Methods Coupled with in Situ Fluorescence Microscopy,” *Langmuir*, **2013**, *29*, 3347–3360.
- 16) C **Leung, J. C. T.**; **Chatalova-Sazepin, C.**; **West, J.**; **Rueda-Becerril, M.**; Paquin, J. –F.; Sammis, G. M.* “Photofluorodecarboxylation of alpha-aryloxy and alpha-aryl acids,” *Angew. Chem. Int. Ed.* **2012**, *51*, 10804-10807.
- 15) C Hadidi, S.; Antignano, F.; Hughes, M. R.; Wang, S. K. H.; Snyder, K.; Sammis, G. M.; Kerr, W. G.; McNagny, K. M.; Zaph, C.* “Myeloid cell-specific expression of Ship 1 regulates IL-12 production and immunity to helminth infection,” *Mucosal immunology* **2012**, *5*, 535-543.
- 14) C **Rueda-Becerril, M.**; **Chatalova Sazepin, C.**; **Leung, J. C. T.**; Okbinoğlu, T.; Kennepohl, P.; Paquin, J. –F.; Sammis, G. M.* “Fluorine Atom Transfer to Alkyl Radicals,” *J. Am. Chem. Soc.* **2012**, *134*, 4026-4029.
- 13) C **Zhai, H.**; Miller, J.; Sammis, G. M.* “First enantioselective syntheses of the dopamine D1 and D2 receptor modulators, (+)- and (-)-govadine” *Biorg. Med. Chem. Lett.* **2012**, *22*, 1557-1559.
- 12) A **Rueda-Becerril, M.**; **Leung, J. C. T.**; **Dunbar, C. R.** Sammis, G. M.* “Alkoxy Radical Cyclizations onto Silyl Enol Ethers Relative to Alkene Cyclization, Hydrogen Atom Transfer, and Fragmentation Reactions,” *J. Org. Chem.*, **2011**, *76*, 7720-7729.
- 11) C **Zlotorzynska, M.**; Sammis, G. M.* “Photoinduced Electron-Transfer-Promoted Redox Fragmentation of *N*-Alkoxyphthalimides,” *Org. Lett.* **2011**, *13*, 6264-6267.
- 10) C **Zhai, H.**; **Wickenden, J.**; Sammis, G. M.* “Cyclizations of Aminyl Radicals Generated from Stubstoichiometric Stannane,” *Synlett.* **2010**, 3035-3038.
- 9) A **Zlotorzynska, M.**; **Zhai, H.**; Sammis, G. M.* “Unique Diastereoselectivity Trends in Aminyl Radical Cyclizations onto Silyl Enol Ethers,” *J. Org. Chem.* **2010**, *75*, 864–872.

- 8) C **Zhai, H.; Zlotorzynska, M.;** Sammis, G. M.* “Synthesis of Hydroxylated Pyrrolidines and Analogs Using Nitrogen-Centered Radical Cyclizations,” *Chem. Commun.* **2009**, 5716-5718.
- 7) C **Zhu, H.; Wickenden, J. G.; Campbell, N. E.; Leung, J. C. T.; Johnson, K. M.;** Sammis, G. M.* “Construction of Carbo- and Heterocycles using Radical Relay Cyclizations Initiated by Alkoxy Radicals” *Org. Lett.* **2009**, 11, 2019-2022.
- 6) C **Zlotorzynska, M.; Zhai, H.;** Sammis, G. M.* “Chemoselective Oxygen-Centered Radical Cyclizations onto Silyl Enol Ethers” *Org. Lett.* **2008**, 10, 5083-5086.
- 5) A Xie, H.; Sammis, G. M.; Flamme, E. M.; Kraml, C. M., Sorensen, E. J.* “The Catalytic Asymmetric Diels-Alder Reactions and Post-cycloaddition Reductive Transpositions of 1-Hydrazinodienes,” *Chem. Eur. J.*, **2011**, 17, 11131-11134.
- 4) C Sammis, G. M.; Flamme, E. M.; Xie, H.; Ho, D. M.; Sorensen, E. J.* “Design, Synthesis, and Reactivity of 1-Hydrazinodienes for use in Organic Synthesis” *J. Am. Chem. Soc.* **2005**, 127, 8612–8613.
- 3) C Sammis, G. M.; Danjo, H.; Jacobsen, E. N.* “Cooperative Dual Catalysis: Application to the Highly Enantioselective Conjugate Cyanation of Unsaturated Imides” *J. Am. Chem. Soc.* **2004**, 126, 9928–9929.
- 2) C Sammis, G. M.; Jacobsen, E. N.* “Highly Enantioselective, Catalytic Conjugate Addition of Cyanide to α,β -Unsaturated Imides” *J. Am. Chem. Soc.* **2003**, 125, 4442–4443.
- 1) A Millward D. B.; Sammis G. M.; Waymouth R. M.* “Ring-Opening Reactions of Oxabicyclic Alkene Compounds: Enantioselective Hydride and Ethyl Additions Catalyzed by Group 4 Metals” *J. Org. Chem.* **2000**, 65, 3902–3909.