

RONALD A. HITES

School of Public and Environmental Affairs
Indiana University
Bloomington, IN 47405
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PROFESSIONAL EXPERIENCE

Distinguished Professor, Indiana University, Bloomington, 1989-present
Professor of Public and Environmental Affairs and of Chemistry, Indiana University, Bloomington, 1979-1989
Associate and Assistant Professor of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, 1972-1979
Research Staff, Department of Chemistry, Massachusetts Institute of Technology, Cambridge, 1969-1972
National Academy of Sciences Postdoctoral Associate, Agricultural Research Service, Peoria, Illinois, 1968-1969

EDUCATION

Doctor of Philosophy in Analytical Chemistry, Massachusetts Institute of Technology, Cambridge, 1968; studied with Professor Klaus Biemann (member of the National Academy of Sciences)
Bachelor of Arts in Chemistry, Oakland University, Rochester, Michigan, 1964

HONORS (SELECTED)

Lifetime Achievement Award, International Association for Great Lakes Research, 2016
“Ronald A. Hites Tribute Issue,” *Environmental Science & Technology*, 1 December 2015
Society of Environmental Toxicology and Chemistry Charter Fellow, 2014-present
American Chemical Society Charter Fellow, 2009-present
Ron Hites Award for an Outstanding Research Publication in the *Journal of the American Society for Mass Spectrometry*, named in Prof. Hites’ honor in November 2008
President, Board of Directors, International Association for Great Lakes Research, 2008-2009
Associate Editor, *Environmental Science & Technology*, 1990-present
American Association for the Advancement of Science Fellow, 1996-present
Founders Award from the Society of Environmental Toxicology and Chemistry, 1993
Award for Creative Advances in Environmental Science from the American Chemical Society, 1991

PROFESSIONAL ACTIVITIES (RECENT)

Associate Editor, *Environmental Science & Technology*, 1990-present; Editorial Board, 1988-1990
Integrated Atmospheric Deposition Network, International Steering Committee, United States Environmental Protection Agency, Great Lakes National Program Office, Chicago, Illinois, 1994-present
Dioxin Exposure Study, Scientific Advisory Board, University of Michigan, School of Public Health, Ann Arbor, Michigan, 2004-2010

CURRENT ASSOCIATION MEMBERSHIPS

International Association for Great Lakes Research (Past-president 2009-2010, President 2008-2009, President-elect 2007-2008, Board of Directors, 2006-2010)
Society for Environmental Toxicology and Chemistry (Board of Directors, 1997-2000; Chair, Awards and Fellowships Committee, 1998-2000; Nominating Committee, 2003; Fellow, 2014-present)
American Society for Mass Spectrometry (Past-President, 1990-1992; President, 1988-1990; Vice-President for Programs, 1986-1988; Program Review Committee, 1983-1990; Environmental Interest Group, Chair, 1983-1986)

American Chemical Society (Fellow, 2009-present)
American Association for the Advancement of Science (Fellow, 1996-present)
Sigma Xi

UNIVERSITY SERVICE ACTIVITIES (RECENT)

School of Public and Environmental Affairs Policy Committee (elected), 2012-2014
School of Public and Environmental Affairs Promotion and Tenure and Personnel Committees, 2004-2010 (chair, 2006-2010)
School of Public and Environmental Affairs Search and Screen Committees for Commitment to Excellence Faculty Members, Environmental Scientists, 2003-2007 (chair)
School of Public and Environmental Affairs Doctor of Philosophy in Environmental Science Committee, 1988-2013
Indiana University School of Public and Environmental Affairs Dean Review Committee, 2012-2013
Indiana University School of Public and Environmental Affairs Dean Search Committee, 2007-2008
Indiana University School of Public and Environmental Affairs Dean Review Committee, 2005-2006

ACTIVE RESEARCH GRANT(S)

Deposition of Toxic Organic Compounds to the Great Lakes: The Integrated Atmospheric Deposition Network; United States Environmental Protection Agency, Great Lakes National Program Office; Active period 7/16/94 to 9/30/19; Budget \$6,000,000 from 2014-2019; Hites' Effort: 25% academic year, 50% summer.

POST-DOCTORAL RESEARCH ASSOCIATES TRAINED

Liang-Ying Liu, 2016, Associate Professor, Jinan University, Guangzhou, China
Angela A. Peverly, 2015, Assistant Professor, Eureka College, Eureka, Illinois
Amina Salamova, 2011, Assistant Scientist, Indiana University, Bloomington
Daekyun Kim, 2011, Research Associate, Clemson University
Marta Venier, 2008, Assistant Scientist, Indiana University, Bloomington
Xinghua Qiu, 2008, Assistant Professor, Peking University, Beijing, China
Ping Sun, 2007, Staff Scientist, Procter and Gamble, Cincinnati, Ohio
Lingyan Zhu, 2005, Professor, Nankai University, China
Daniel L. Carlson, 2004, Research Staff, University of Minnesota (retired)
Woojin Lee, 2003, Associate Professor, Korea Advanced Institute of Science and Technology, Daejeon, Korea
Victor Khamaganov, 2000, Visiting Professor, Katholieke Universiteit Leuven, Leuven, Belgium
Bo Strandberg, 2001, Associate Professor, Sahlgrenska University Hospital and Academy at University of Gothenburg, Gothenburg, Sweden
Matt F. Simcik, 1999, Associate Professor, University of Minnesota, School of Public Health
Kristine L. Willett, 1998, Professor, Department of Pharmacology, University of Mississippi
Barbara Hillery, 1997, Professor of Chemistry and Dean of Arts and Sciences, State University of New York at Old Westbury
Shinya Hashimoto, 1994, Professor, Tokyo University of Fisheries, Tokyo, Japan
Laurel J. Standley, 1989, Principal, Clear Current LLC, Beaverton, Oregon
Mark Hermanson, 1988, Professor, University Center of Svalbard, Norway
Hiroaki Shiraishi, 1988, Senior Scientist, National Institute for Environmental Studies, Onogawa, Japan
Edward T. Furlong, 1987, Research Scientist, United States Geological Survey, Denver, Colorado
Deborah L. Swackhamer, 1986, Professor, Humphrey School of Public Affairs, School of Public Health, and Water Resources Center, University of Minnesota (retired)
M. Judith Charles, 1985, Associate Professor, University of California Davis (deceased)
Ray Kaminsky, 1983, Senior Scientist, AECOM, Oakland, CA
Trescott E. Jensen, 1982, Research Scientist, Ford Motor Company, Dearborn, Michigan (retired)

Philip M. Gschwend, 1981, Professor, Massachusetts Institute of Technology, Cambridge, Massachusetts
Bertha L. Proctor, 1980, Professor, Mankato State University, Mankato, Minnesota
Vincent A. Elder, 1980, Senior Research Scientist, Frito-Lay, Plano, Texas
Ming-Li Yu, 1980, Research Scientist, Cummins Engine Company, Columbus, Indiana (retired)
Linda (Li) Ng, 1979, Senior Policy Advisor, Food & Drug Administration, Washington, DC
Charles R. Nelson, 1979, Scientific Staff, American Gas Association, Dallas, Texas (retired)
Robert Laflamme, 1978, Biomedical/pharmacy Facility, Hopkinton, Massachusetts (deceased)
Linda J. Sheldon, 1978, Senior Research Scientist, United States Environmental Protection Agency, Research Triangle Park, North Carolina (retired)
John G. Windsor, Jr., 1978, Professor, Florida Institute of Technology, Melbourne, Florida
George R. Dubay, 1977, Research Scientist, Duke University, Durham, North Carolina
Gregory A. Jungclaus, 1977, Research Scientist, URS Professional Solutions, Carlsbad, New Mexico
Larry M. Games, 1977, Vice President, Proctor and Gamble, Cincinnati, Ohio (retired)
Milton L. Lee, 1976, H. Tracy Hall Professor, Brigham Young University, Provo, Utah (retired)

DOCTORAL RESEARCH SCIENTISTS TRAINED

Yuning Ma, 2013, Postdoctoral Research Associate, University of Birmingham, United Kingdom
Amina Salamova, 2011, Postdoctoral Research Associate, Indiana University, Bloomington
Marta Venier, 2008, Assistant Research Scientist, Indiana University, Bloomington
Jonathan D. Raff, 2007, Associate Professor, Indiana University, Bloomington, Indiana
Eunha Hoh, 2006, Associate Professor, San Diego State University, California
William D. Hafner, 2005, Environmental Consultant, NewFields, Edmonds, Washington
Stephanie S. Buehler, 2003, Principal Research Scientist, Battelle Research Laboratories, Columbus, Ohio
Nathan G. Dodder, 2003, Senior Scientist, Southern California Coastal Water Research Project Authority, Costa Mesa, California
Jeffery G. McDonald, 2002, Associate Professor (Research), University of Texas Southwestern Medical Center, Dallas, Texas
Ryan R. James, 2001, Senior Research Scientist, Battelle Memorial Institute, Columbus, Ohio
Elin M. Ulrich, 2000, Research Chemist, United States Environmental Protection Agency, Research Triangle Park, North Carolina
John I. Baker, 2000, Field Sales Representative, Restek Incorporated, Muncie, Indiana
Donald R. Cortes, 1999, Research Scientist, STAT Analysis Group, Chicago, Illinois
Diane (Wagrowski) Diehl, 1999, Director, Waters Corporation, Milford, Massachusetts
Susan T. Glassmeyer, 1998, Research Staff, United States Environmental Protection Agency, Cincinnati, Ohio
W. Wayne Brubaker, Jr., 1998, Senior Research Chemist, DuPont Corporate Center for Analytical Sciences, Wilmington, Delaware
Thomas W. Burgoyne, 1996, Scientist, Jacam Chemicals Company, Sterling, Kansas
Jeffrey C. Wallace, 1995, Senior Analytical Chemist, DuPont Crop Protection, LaPorte, Texas
Philip N. Anderson, 1995, Senior Research Investigator, Analytical Development, Array BioPharma Incorporated, Boulder, Colorado
Louis P. Brzuzy, 1995, Research Scientist, Shell Development Corporation, Houston, Texas
Michael J. Howdeshell, 1995, Vice President, Select Energy Services, Fort Worth, Texas
Staci L. Simonich, 1995, Professor, Oregon State University, Corvallis, Oregon
Voon S. Ong, 1994, Senior Director, Trius Therapeutics, San Diego, California
Sandra Y. Panshin, 1994, Research Scientist, United States Environmental Protection Agency, Corvallis, Oregon (retired)
Anthony J. Borgerding, 1993, Professor, University of Saint Thomas, Saint Paul, Minnesota
Mark S Krieger, 1993, Global Leader Biotechnology Registration and Operations, Dow AgroSciences, Indianapolis, Indiana

Donna (Carter) Griffen, 1992, Financial Advisor, Merrill Lynch, Kensington, Connecticut
Carolyn J. Koester, 1991, Research Scientist, Lawrence Livermore National Laboratory, Livermore, California
Mark A. Dearth, 1990, Research Scientist, Ford Motor Company, Dearborn, Michigan
Brian D. Eitzer, 1989, Research Scientist, Connecticut Agriculture Experiment Station, New Haven, Connecticut
Thomas D. Behymer, 1987, Deputy Division Director, United States Environmental Protection Agency, Cincinnati, Ohio
Bruce D. McVeety, 1986, Research Leader, Hazardous Materials Research Center, Battelle Memorial Institute, Columbus, Ohio
Elizabeth A. Stemmler, 1986, Professor of Chemistry, Bowdoin College, Brunswick, Maine
William J. Simonsick, Jr., 1985, Principal Investigator, Lubrizol Corporation, Cleveland, Ohio (deceased)
Rudolf Jaffe, 1985, Professor, Florida International University, Miami, Florida
Timothy J. Wozniak, 1984, Research Fellow, Eli Lilly Company, Indianapolis, Indiana
Jean (Czuczwa) Rhodes, 1984, Environmental Regulatory Expert, Promerus LLC, Brecksville, Ohio
Viorica Lopez-Avila, 1979, Senior Research Scientist, Agilent Corporation, Palo Alto, California

PUBLICATIONS

An update on the polychlorinated biphenyl mass budget for Lake Michigan, *Environmental Science & Technology*, submitted on 6 June 2017; with J. Guo, K. Romanak, S. Westenbroek, A. Li, and R. Kreis.

Blank corrections are not necessary if the blanks are significantly less than the samples. *Environmental Science & Technology Letters*, submitted on May 30, 2017; with D. C. Lehman, M. Venier, and A. Salamova.

Current-use flame retardants in the water of Lake Michigan tributaries, *Environmental Science & Technology*, submitted on 10 March 2017; with J. Guo, K. Romanak, S. Westenbroek, and M. Venier.

Review of *Environmental Organic Chemistry*, Third Edition, R. P. Schwarzenbach, P. M. Gschwend, and D. M. Imboden, Wiley, Hoboken, New Jersey. *Science of the Total Environment*, accepted on 21 June 2017; with J. D. Raff.

Comment on “Polychlorinated Biphenyls in Tree Bark near Former Manufacturing and Incinerator Facilities in Sauget, Illinois, United States,” *Environmental Science & Technology*, accepted on 30 March 2017. [Response: Hermanson et al., *Environmental Science & Technology*, **51**, ???-??? (2017)].

Calculating the confidence and prediction limits of a rate constant at a given temperature from an Arrhenius equation using Excel, *Journal of Chemical Education*, **94**, 398-400 (2017). [Comment: Perrot, P. **94**, ???-???].

Bioaccumulation of dechloranes, organophosphate esters, and other flame retardants in Great Lakes fish, *Science of the Total Environment*, **583**, 1-9 (2017); with J. Guo, M. Venier, and A. Salamova.

2016

Precision of atmospheric POPs concentration measurements, *Environmental Science & Technology*, **50**, 13464-13469 (2016); with D. C. Lehman and J. C. Bays.

Spatial and temporal trends of particle phase organophosphate ester concentrations in the atmosphere of the Great Lakes, *Environmental Science & Technology*, **50**, 13249-13255 (2016); with A. Salamova, A. A. Peverly, and M. Venier.

The identification of Marbon in the Indiana Harbor and Ship Canal, *Environmental Science & Technology*, **50**, 13232-13238 (2016); with J. Guo, M. Venier, K. Romanak, and S. Westenbroek.

Ten years after entry into force of the Stockholm Convention: What do air monitoring data tell about its effectiveness? *Environmental Pollution*, **217**, 149-158 (2016); with H. Wöhrnschimmel, M. Scheringer, C. Bogdal, H. Hung, A. Salamova, M. Venier, A. Katsoyiannis, K. Hungerbühler, and H. Fiedler.

Temporal trends of persistent organic pollutant concentrations in precipitation around the Great Lakes, *Environmental Pollution*, **217**, 143-148 (2016); with M. Venier and A. Salamova.

Development of gas chromatographic mass spectrometry, *Analytical Chemistry*, **88**, 6955-6961 (2016). **(Perspective)**

A Novel Flame Retardant in the Great Lakes Atmosphere: 3,3',5,5'-Tetrabromobisphenol A bis(2,3-dibromopropyl) ether, *Environmental Science & Technology Letters*, **3**, 194-199 (2016); with L. Y. Liu, M. Venier, and A. Salamova.

Trends in the levels of halogenated flame retardants in the Great Lakes atmosphere over the period 2005-2013, *Environment International*, **92-93**, 442-449 (2016); with L. Y. Liu, A. Salamova, and M. Venier.

Hair and nails as non-invasive biomarkers of human exposure to brominated and organophosphate flame retardants, *Environmental Science & Technology*, **50**, 3065-3073 (2016); with L. Y. Liu, K. He, and A. Salamova.

Comment on "Halogenated indigo dyes: A likely source of 1,3,6,8-tetrabromocarbazole and some other halogenated carbazoles in the environment," *Chemosphere*, **144**, 273-274 (2016); with A. A. Peverly. [Response: Parette et al. **150**, 414-415 (2016)].

2015

Locating POPs sources with tree bark, *Environmental Science & Technology*, **49**, 13743-13748 (2015); with A. A. Peverly and A. Salamova. **(Feature)**

A statistical approach for left-censored data: Distributions of atmospheric PCB concentrations near the Great Lakes as a case study, *Environmental Science & Technology Letters*, **2**, 250-254 (2015).

Halogenated flame retardants in the Great Lakes environment, *Accounts of Chemical Research*, **48**, 1853-1861 (2015); with M. Venier and A. Salamova. **(Invited & Editors' Choice)**

Analysis of polybrominated diphenyl ethers and emerging halogenated and organophosphate flame retardants in human hair and nails, *Journal of Chromatography A*, **1406**, 251-257 (2015); with L. Y. Liu, A. Salamova, and Ka He.

Chicago's Sanitary and Ship Canal: Polycyclic aromatic hydrocarbons, polychlorinated biphenyls, brominated flame retardants, and organophosphate esters, *Chemosphere*, **134**, 380-386 (2015); with A. A. Peverly, C. O'Sullivan, L. Y. Liu, M. Venier, A. Martinez, and K. C. Hornbuckle.

Variations of flame retardant, polycyclic aromatic hydrocarbon, and pesticide concentrations in Chicago's atmosphere measured using passive sampling, *Environmental Science & Technology*, **49**, 5371-5379 (2015); with A. A. Peverly, Y. Ma, M. Venier, Z. Rodenburg, S. N. Spak, and K. C. Hornbuckle.

Reminiscences of a simple country chemist, *Mass Spectrometry Reviews*, **34**, 265-267 (2015) **(Invited)**.

Revised temporal trends of persistent organic pollutant concentrations in air around the Great Lakes, *Environmental Science & Technology Letters*, **2**, 20-25 (2015); with A. Salamova and M. Venier.

2014

Air is still contaminated 40 years after the Michigan Chemical plant disaster in St. Louis, Michigan, *Environmental Science & Technology*, **48**, 11154-11160 (2014); with A. A. Peverly and A. Salamova.

How to give a scientific talk, present a poster, and write a research paper or proposal, *Environmental Science & Technology*, **48**, 9960-9964 (2014) **(Perspective)**.

Halogenated flame retardants in baby food from the United States and from China and the estimated dietary intake by infants, *Environmental Science & Technology*, **48**, 9812-9818 (2014); with L. Y. Liu and A. Salamova.

Flame retardants and legacy chemicals in Great Lakes' water, *Environmental Science & Technology*, **48**, 9563-9572 (2014); with M. Venier, A. Dove, K. Romanak, and S. Backus.

Organophosphate and halogenated flame retardants in atmospheric particles from a European Arctic site, *Environmental Science & Technology*, **48**, 6133-6140 (2014); with A. Salamova and M. Hermanson.

DDT and HCH, two discontinued organochlorine insecticides in the Great Lakes region: Isomer trends and sources, *Environment International*, **69**, 159-165 (2014); with M. Venier.

Interstudy and intrastudy temporal variations of PCB, pesticide, and PAH concentrations in air and precipitation at a rural site in Ontario, *Environmental Science & Technology Letters*, **1**, 226-230 (2014); with L. Y. Liu and A. Salamova.

High levels of organophosphate flame retardants in the Great Lakes atmosphere, *Environmental Science & Technology Letters*, **1**, 8-14 (2014); with A. Salamova, Y. Ma, and M. Venier.

Differences in spatiotemporal variations of atmospheric PAH levels between North America and Europe: Data from two air monitoring projects, *Environment International*, **64**, 48-55 (2014); with L. Y. Liu, P. Kukucka, M. Venier, A. Salamova, and J. Klanova.

2013

Has the phase-out of PBDEs affected their environmental levels? Trends of PBDEs and their replacements in the Great Lakes atmosphere, *Environmental Science & Technology*, **47**, 11457-11464 (2013); with Y. Ma, A. Salamova, and M. Venier.

Post-1990 temporal trends of PCBs and organochlorine pesticides in the atmosphere and in fish from Lakes Erie, Michigan, and Superior, *Environmental Science & Technology*, **47**, 9109-9114 (2013); with A. Salamova, T. Holsen, and J. Pagano.

Science in TSCA reform. *Chemical & Engineering News*, **91**, 3-3 (12 August 2013); with R. Lohmann and H. M. Stapleton.

Science should guide TSCA reform: A viewpoint. *Environmental Science & Technology*, **47**, 8995-8996 (2013); with R. Lohmann and H. M. Stapleton.

Electron impact, electron capture negative ionization, and positive chemical ionization mass spectra of organophosphorus flame retardants and plasticizers, *Journal of Mass Spectrometry*, **48**, 931-936 (2013); with Y. Ma.

Brominated and chlorinated flame retardants in tree bark from around the globe, *Environmental Science & Technology*, **47**, 349-354 (2013); with A. Salamova.

2012

Tribromophenoxy flame retardants in the Great Lakes atmosphere, *Environmental Science & Technology*, **46**, 13112-13117 (2012); with Y. Ma and M. Venier.

Bromobenzene flame retardants in the Great Lakes atmosphere, *Environmental Science & Technology*, **46**, 8653-8660 (2012); with M. Venier and Y. Ma.

Kinetic isotope effects and rate constants for the gas-phase reactions of three deuterated toluenes with OH from 298-353 K, *International Journal of Chemical Kinetics*, **44**, 821-827 (2012); with D. Kim and P. S. Stevens.

Elements of Environmental Chemistry, Second Edition, John Wiley and Sons, Hoboken, New Jersey, 2012; with J. D. Raff. (**Textbook**)

Temporal trends of persistent organic compounds: A comparison of different time series models, *Environmental Science & Technology*, **46**, 3928-3934 (2012); with M. Venier, H. Hung, W. Tych.

2-Ethylhexyl tetrabromobenzoate and bis(2-ethylhexyl) tetrabromophthalate flame retardants in the Great Lakes atmosphere, *Environmental Science & Technology*, **46**, 204-208 (2012); with Y. Ma, and M. Venier.

2011

Dechlorane Plus in the atmosphere and precipitation near the Great Lakes, *Environmental Science & Technology*, **45**, 9924-9930 (2011); with A. Salamova.

Discontinued and alternative brominated flame retardants in the atmosphere and precipitation from the Great Lakes Basin, *Environmental Science & Technology*, **45**, 8698-8706 (2011); with A. Salamova.

Dechlorane Plus and related compounds in the environment: A review, *Environmental Science & Technology*, **45**, 5088-5098 (2011); with E. Sverko, G. T. Tomy, E. J. Reiner, Y. F. Li, B. E. McCarry, J. A. Arnot, and R. J. Law.

Flame retardants in the serum of pet dogs and in their food, *Environmental Science & Technology*, **45**, 4602-4608 (2011); with M. Venier.

Rate constants for the gas-phase reactions of OH and O₃ with β -ocimene, β -myrcene, and α - and β -

farnesene as a function of temperature, *Journal of Physical Chemistry A*, **115**, 500-506 (2011); with D. Kim and P. S. Stevens.

Radical dependence of the yields of methacrolein and methyl vinyl ketone from the OH-initiated oxidation of isoprene under NO_x-free conditions, *Environmental Science & Technology*, **45**, 923-929 (2011); with M. A. Navarro, S. Dusanter, and P. S. Stevens.

Dioxins: An overview and history, *Environmental Science & Technology*, **45**, 16-20 (2011) (**Invited**).

Toward identifying the next generation of Superfund and hazardous waste site contaminants, *Environmental Health Perspectives*, **119**, 6-10 (2011); with W. P. Ela, D. L. Sedlak, and 20 others [a workshop report].

2010

Time trend analysis of atmospheric POPs concentrations near the Great Lakes since 1990, *Environmental Science & Technology*, **44**, 8050-8055 (2010); with M. Venier.

Evaluation of tree bark as a passive atmospheric sampler for flame retardants, PCBs, and organochlorine pesticides, *Environmental Science & Technology*, **44**, 6196-6201 (2010); with A. Salamova.

Flame retardants and organochlorine pollutants in bald eagle plasma from the Great Lakes region, *Chemosphere*, **80**, 1234-1240 (2010); with M. Venier, M. Wierda, and W. W. Bowerman.

Regression model of partial pressures of PCBs, PAHs, and organochlorine pesticides in the Great Lakes' atmosphere, *Environmental Science & Technology*, **44**, 618-623 (2010); with M. Venier.

2009

Brominated flame retardants in serum from the general population in northern China, *Environmental Science & Technology*, **43**, 6963-6968 (2009); with L. Y. Zhu and B. L. Ma.

Partial pressures of PCB-11 in air from several Great Lakes sites, *Environmental Science & Technology*, **43**, 6488-6492 (2009); with I. Basu, K. A. Arnold, and M. Venier.

Rate constants for the gas-phase β-myrcene + OH and isoprene + OH reactions as a function of temperature, *International Journal of Chemical Kinetics*, **41**, 407-413 (2009); with A. M. Turner.

Polychlorinated dibenzo-*p*-dioxins and dibenzofurans in the atmosphere around the Great Lakes, *Environmental Science & Technology*, **43**, 1036-1041 (2009); with M. Venier and J. Ferrario.

Findings from quality assurance activities of the Integrated Atmospheric Deposition Network, *Journal of Environmental Monitoring*, **11**, 277-296 (2009); with R. Wu, S. Backus, I. Basu, P. Blanchard, K. A. Brice, H. Dryfhout-Clark, P. Fowlie, and M. L. Hulting.

Hydroxylated metabolites of polybrominated diphenyl ethers (PBDEs) in human blood samples from the United States, *Environmental Health Perspectives*, **117**, 93-98 (2009); with X. Qiu and R. M. Bigsby.

2008

Atmospheric deposition of PBDEs to the Great Lakes featuring a Monte Carlo analysis of errors, *Environmental Science & Technology*, **42**, 9058-9064 (2008); with M. Venier.

Flame retardants in the atmosphere near the Great Lakes, *Environmental Science & Technology*, **42**, 4745-4751 (2008); with M. Venier.

Electron impact and electron capture negative ionization mass spectra of polybrominated diphenyl ethers and methoxylated polybrominated diphenyl ethers, *Environmental Science & Technology*, **42**, 2243-2252 (2008).

Dechlorane Plus and other flame retardants in tree bark from the northeastern United States, *Environmental Science & Technology*, **42**, 31-36 (2008); with X. H. Qiu.

2007

Deposition versus photochemical removal of PBDEs from Lake Superior air, *Environmental Science & Technology*, **41**, 6725-6731 (2007); with J. D. Raff

Elevated PBDE levels in pet cats: Sentinels for humans? *Environmental Science & Technology*, **41**, 6350-6356 (2007); with J. Dye, M. Venier, L. Y. Zhu, C. R. Ward, and L. S. Birnbaum.

Dechlorane Plus and other flame retardants in a sediment core from Lake Ontario, *Environmental Science & Technology*, **41**, 6014-6019 (2007); with X. H. Qiu and C. H. Marvin.

Elements of Environmental Chemistry, John Wiley and Sons, Hoboken, New Jersey, 2007 (**Textbook**)

- Measurement of polybrominated diphenyl ethers and metabolites in mouse plasma after exposure to a commercial pentabromo diphenyl ether mixture, *Environmental Health Perspectives*, **115**, 1052-1058 (2007); with X. Qiu, M. Mercado-Feliciano, and R. M. Bigsby.
- Temporal and spatial trends of atmospheric polychlorinated biphenyl concentrations near the Great Lakes, *Environmental Science & Technology*, **41**, 1131-1136 (2007); with P. Sun, P. Blanchard, and K. A. Brice.
- Chiral pesticides in the atmosphere, *Atmospheric Environment*, **41**, 768-775 (2007); with M. Venier.
- 2006**
- Atmospheric organochlorine pesticide concentrations near the Great Lakes: Temporal and spatial trends, *Environmental Science & Technology*, **40**, 6587-6593 (2006); with P. Sun, P. Blanchard, and K. A. Brice.
- Trends in polycyclic aromatic hydrocarbon concentrations in the Great Lakes atmosphere, *Environmental Science & Technology*, **40**, 6221-6227 (2006); with P. Sun, P. Blanchard, and K. A. Brice.
- Gas-phase reactions of polybrominated diphenyl ethers with OH radicals, *Journal of Physical Chemistry A*, **110**, 10783-10792 (2006); with J. Raff.
- Brominated flame retardants in tree bark from North America, *Environmental Science & Technology*, **40**, 3711-3716 (2006); with L. Y. Zhu.
- Consumption advisories for salmon based on risk of cancer and non-cancer health effects, *Environmental Research*, **101**, 263-274 (2006); with X. Huang, J. A. Foran, M. C. Hamilton, B. A. Knuth, S. J. Schwager, D. O. Carpenter.
- Risks and benefits of seafood consumption, *American Journal of Preventative Medicine*, **30**, 438-439 (2006); with J. A. Foran, D. O. Carpenter, D. H. Good, M. C. Hamilton, B. A. Knuth, S. J. Schwager.
- Comment on "Biodegradation of α -pinene in biofilms and biofilters", *Environmental Science & Technology*, **40**, 2493 (2006). [Response: Allen, D. G.; Miller, M. J. **40**, 2494 (2006)].
- Temporal and spatial trends of organochlorine pesticides in Great Lakes precipitation, *Environmental Science & Technology*, **40**, 2135-2141 (2006); with P. Sun, S. Backhus, and P. Blanchard.
- Dechlorane Plus, a chlorinated flame retardant, in the Great Lakes, *Environmental Science & Technology*, **40**, 1184-1189 (2006); with E. Hoh and L. Y. Zhu.
- Temporal trends of polychlorinated biphenyls in precipitation and air at Chicago, *Environmental Science & Technology*, **40**, 1178-1183 (2006); with P. Sun and I. Basu.
- Annual variations of polycyclic aromatic hydrocarbon concentrations in precipitation collected near the Great Lakes, *Environmental Science & Technology*, **40**, 696-701 (2006); with P. Sun, S. Backhus, and P. Blanchard.
- "Persistent Organic Pollutants in the Great Lakes," *Handbook in Environmental Chemistry*, Vol. 5, Part N, Springer-Verlag: Berlin and Heidelberg, Germany, 430 pp. (2006); R. A. Hites, editor.
- Brominated flame retardants in the Great Lakes, in "Persistent Organic Pollutants in the Great Lakes," *Handbook in Environmental Chemistry*, Vol. 5, Part N, pp. 328-366, Springer-Verlag: Berlin and Heidelberg, Germany (2006), R. A. Hites, editor.
- 2005**
- Brominated flame retardants in the environment, *Journal of Environmental Monitoring*, **7**, 1033-1036 (2005). (**Perspective**)
- Identification of brominated carbazoles in sediment cores from Lake Michigan, *Environmental Science & Technology*, **39**, 9446-9451 (2005); with L. Y. Zhu.
- Lipid composition and contaminants in farmed and wild salmon, *Environmental Science & Technology*, **39**, 8622-8629 (2005); with, M. C. Hamilton, S. J. Schwager, J. A. Foran, B. A. Knuth, and D. O. Carpenter.
- Effects of wind and air trajectory directions on atmospheric concentrations of persistent organic pollutants near the Great Lakes, *Environmental Science & Technology*, **39**, 7817-7825 (2005); with W. D. Hafner.
- Brominated flame retardants in the atmosphere of the east-central United States, *Environmental Science*

& *Technology*, **39**, 7794-7802 (2005); with E. Hoh.
Influence of local human population on atmospheric polycyclic aromatic hydrocarbon concentrations, *Environmental Science & Technology*, **39**, 7374-7379 (2005); with W. Hafner and D. L. Carlson.
Polychlorinated biphenyls in salmon and salmon feed: Global differences and bioaccumulation, *Environmental Science & Technology*, **39**, 7389-7395 (2005); with D. L. Carlson.
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