

Said H. Hilal, Research Chemist, in EPA's National Exposure Research Laboratory

Exposure Methods and Measurements Division

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Area of Expertise:

My research involves developing and applying mathematical models to estimate the environmental fate of organic chemicals, using the computer model, SPARC. During the period 2002 to 2006, my work focused on refinement of the SPARC physical and chemical properties models and extension of these models to hydrolytic and redox processes.

Select Publications:

Whelan, G., E. Weber, C. Stevens, M. Pelton, K. Wolfe, R. Parmar, M. Galvin, S. Hilal, AND J. Babendreier. A Chemical Properties Simulator to Support Integrated Environmental Modeling (proceeding). In Proceedings, 7th International Congress on Environmental Modelling and Software (iEMSs), San Diego, CA, June 15 - 19, 2014. International Environmental Modelling and Software Society, Manno, Switzerland, 1229-1235, (2014).

HILAL, S. H., S. N. Ayyampalayam, AND L. A. Carreira. Air-Liquid Partition Coefficient for a Diverse Set of Organic Compounds: Henry's Law Constant in Water and Hexadecane. ENVIRONMENTAL SCIENCE & TECHNOLOGY. American Chemical Society, Washington, DC, 42(24):9231-9236, (2008).

HILAL, S. H., A. N. SARAVANARAJ, T. WHITESIDE, AND L. A. CARREIRA. CALCULATING PHYSICAL PROPERTIES OF ORGANIC COMPOUNDS FOR ENVIRONMENTAL MODELING FROM MOLECULAR STRUCTURE. Journal of Computer-Aided Molecular Design. Springer, New York, NY, 21(12):693-708, (2007).

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Education:

- Ph.D. Physical Chemistry, University of Georgia, 1992
- M.S. Chemistry, Sam Houston State University, 1986
- B.S. Chemistry, Yarmouk University, 1983

Professional Experience:

- Research Chemist, USEPA, ORD, NERL-ERD, Athens, GA 2001-present
- Senior NRC Research Scientist, USEPA, ORD, NERL-ERD, Athens, GA 1999–2001
- Research Assistant Prof, Chemistry Department, University of Georgia, Athens, GA 1996–1999
- NRC Post-Doctoral Fellow, USEPA, ORD, NERL-ERD, Athens, GA 1993–1996