

LIST OF PUBLICATIONS

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June 2011

Peer-Reviewed Publications

Books

An Li, Shinsuke Tanabe, Guibin Jiang, John P. Giesy, Paul K. S. Lam (Eds). *Persistent Organic Pollutants in Asia – Sources, Distributions, Transport, and Fate*. Elsevier Publications. 2007.
ISBN-13: 978-0-08-045132-9. ISBN-10: 0-08-045132-2.

http://www.elsevier.com/wps/find/bookdescription.cws_home/709209/description#description

Erik R. Christensen and An Li. *Physical and Chemical Processes in Aquatic Systems*. John Wiley & Sons, Inc. (In preparation under contract).

Journal Papers [800 citations as of June 2011. h-index = 18]

Ruiqiang Yang, Hua Wei, Jiehong Guo, Colin McLeod, An Li, Neil Sturchio. Historically and Currently Used Dechloranes in the Sediments of the Great Lakes. *Environmental Science and Technology*, 45, 5156–5163, 2011

Yingming Li, Thanh Wang, Pu Wang, Lei Ding, Xiaomin Li, Yawei Wang, Qinghua Zhang, An Li, Guibin Jiang. Reduction of Atmospheric Polychlorinated Dibenzo-*p*-Dioxins and Dibenzofurans (PCDD/Fs) during the 2008 Beijing Olympic Games. *Environmental Science and Technology*, 45(8), 3304–3309. 2011

Samuel Dorevitch, Suraj Panthi, Yue Huang, Hong Li, Angela M. Michalek, Preethi Pratap, Meredith Wroblewski, Li Liu, Peter A. Scheff, An Li. Water ingestion during water recreation. *Water Research*. 45, 2020-2028. 2011

Puripus Soonthornnonda, Yonghong Zou, Erik R Christensen, An Li. PCBs in Great Lakes Sediments, Determined by Positive Matrix Factorization. *Journal of Great Lakes Research*. 37(1), 54-63. 2011

Ruiqiang Yang, Yawei Wang, An Li, Qinghua Zhang, Chuanyong Jing, Thanh Wang, Pu Wang, Yingming Li, Guibin Jiang*. Organochlorine pesticides and PCBs in fish from lakes of the Tibetan Plateau and the implications. *Environmental Pollution*, 158(6), 2310-2316, 2010

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Hua Wei, Priyanthi S. Dassanayake, An Li. Parametric Evaluation for Programmable Temperature Vaporization Large Volume Injection in Gas Chromatographic Analysis of Polybrominated Diphenyl Ethers. *International Journal of Environmental Analytical Chemistry*, 90, 535-547, 2010

R.M.A. Priyanthi S. Dassanayake, Hua Wei, Rachel C. Chen, An Li. Optimization of the Matrix Solid Phase Dispersion Extraction Procedure for the Analysis of Polybrominated Diphenyl Ethers in Human Placenta. *Analytical Chemistry*, 81(23), 9795-9801. 2009

Hua Wei, Mary Turyk, Salvatore Cali, Samuel Dorevitch, Serap Erdal, An Li. Particle Size Fractionation, Congener Pattern, and Human Exposure of Polybrominated Diphenyl Ethers in Dust. *Journal of Environmental Science and Health, Part A*, 44(13), 1353-1361, 2009

An Li, Karl J. Rockne, Neil Sturchio, Wenlu Song, Justin C. Ford, Hua Wei. PCBs in the Sediments of the Great Lakes - Distribution and Recent Trends, Homolog Pattern and In-Situ Degradation. *Environmental Pollution* 157, 141–147. 2009.

- Yawei Wang, Thanh Wang, [An Li](#), Jianjie Fu, Pu Wang, Qinghua Zhang, Guibin Jiang. Selection of Bioindicators of Polybrominated Diphenyl Ethers, Polychlorinated Biphenyls, and Organochlorine Pesticides in Mollusks in the Chinese Bohai Sea. *Environmental Science and Technology*, 42(19), 7159-7165, 2008
- [An Li](#), Chao Tai, Zongshan Zhao, Yawei Wang, Qinghua Zhang, Guibin Jiang, Jingtian Hu. Rapid Debromination of Decabrominated Diphenyl Ether by Nanoscale Zerovalent Iron. *Environmental Science and Technology*, 41(19), 6841-6846, 2007
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- Yawei Wang, Guibin Jiang, Paul K.S. Lam, [An Li](#). Polybrominated Diphenyl Ether in East Asian Environment: A Critical Review. *Environmental International* 33(7), 963-973, 2007
- Yawei Wang, Qinghua Zhang, [An Li](#), Hanxia Liu, Guogang Li, Guibin Jiang, Jingtian Hu. Polybrominated Diphenyl Ethers in Sewage Sludge of Wastewater Treatment Plants in China. *Chemosphere*, 68(9), 1683-1691, 2007
- [An Li](#), Karl J. Rockne, Neil C. Sturchio, Wenlu Song, Justin C. Ford, David R. Buckley, William J. Mills. Polybrominated Diphenyl Ethers in the Sediment of the Great Lakes. 4 – Influencing Factors, Trends, and Implications. *Environmental Science and Technology* 40(24), 7528-7534, 2006
- Yawei Wang, [An Li](#), Hanxia Liu, Qinghua Zhang, Weiping Ma, Wenlu Song, Guibin Jiang. Development of Quantitative Structure Gas Chromatographic Relative Retention Times Models on Different Stationary Phases for 209 Polybrominated Diphenyl Ether Congeners. *Journal of Chromatography A* 1103, 324-328, 2006
- Hanxia Liu, Qinghua Zhang, Zongwei Cai, [An Li](#), Yawei Wang, Guibin Jiang. Separation of Polybrominated Diphenyl Ethers, Polychlorinated Biphenyls, Polychlorinated Dibenzo-P-Dioxins and Dibenzo-Furans in Environmental Samples using Silica Gel and Florisil Fractionation Chromatography. *Analytica Chimica Acta* 557, 314-320, 2006
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- David R. Buckley, Karl J. Rockne, [An Li](#), and William J. Mills. Soot Deposition in the Great Lakes: Implications for Semi-Volatile Hydrophobic Organic Pollutant Deposition. *Environmental Science and Technology* 38(6): 1732-1739, 2004

Philip Bzdusek, Erik R. Christensen, [An Li](#), Qimeng Zou. Source Apportionment of Sediment PAHs in Lake Calumet, Chicago: Application of Factor Analysis with Nonnegative Constraints. *Environmental Science and Technology* 38(1): 97-103, 2004

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Erik R. Christensen, Philip Bzdusek, and [An Li](#). Anaerobic Dechlorination of PCBs in Sediments of Kinnickinnic River, Wisconsin. *International Journal of Sediment Research* 18(2): 231-238, 2003

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[An Li](#). Predicting Cosolvency. III. Evaluation of the Extended Log-Linear Model. *Industrial & Engineering Chemistry Research* 40(22): 5029-5035, 2001

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[An Li](#), Kent. A. Cheung, and Krishna R. Reddy. Cosolvent Enhanced Electrokinetic Remediation of Soils Contaminated by Polycyclic Aromatic Hydrocarbons. *ASCE Journal of Environmental Engineering* 126(6): 527-533, 2000

[An Li](#) and Samuel H. Yalkowsky. Predicting Cosolvency. II. Correlation with Solvent Physicochemical Properties. *Industrial & Engineering Chemistry Research* 37(11): 4476-4480, 1998

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[An Li](#), Irwan A. Ab Razak, Fan Ni, Michael F. Gin, and Erik R. Christensen. Polycyclic Aromatic Hydrocarbons in the Sediments of the Milwaukee Harbor Estuary, Wisconsin, U.S.A. *Water, Air and Soil Pollution* 101(1/4): 417-434, 1998

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Sirirat Pinsuwan, [An Li](#), and Samuel H. Yalkowsky. Correlation of Octanol/Water Solubility Ratio and the Partition Coefficient. *Journal of Chemical & Engineering Data* 40: 623-626, 1995

An Li and Anders W. Andren. Solubility of Polychlorinated Biphenyls in Water/Alcohol Mixtures. II - Predictive Methods. *Environmental Science and Technology* 29(12):3001-3006, 1995

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An Li, William J. Doucette, and Anders W. Andren. Estimation of Aqueous Solubility, Octanol/Water Partition Coefficient and Henry's Law Constant for Polychlorinated Biphenyls using UNIFAC. *Chemosphere* 29(4): 657-669, 1994

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Qinghua Zhang, Yawei Wang, An Li, Guibin Jiang. Polychlorinated Dibenzo-*p*-dioxins, Dibenzofurans, and Biphenyls, and Polybrominated Diphenyl Ethers in China. In: *Persistent Organic Pollutants in Asia – Sources, Distributions, Transport, and Fate*. An Li, Shinsuke Tanabe, Guibin Jiang, John P. Giesy, Paul K. S. Lam (Eds). Elsevier Publications. 2007. ISBN-13: 978-0-08-045132-9. ISBN-10: 0-08-045132-2. Chapter 4. http://www.elsevier.com/wps/find/bookdescription.cws_home/709209/description#description

An Li. Predicting Cosolvency for Pharmaceutical and Environmental Applications. In: *Handbook of Solvents*. Wypych, G. Ed. ChemTec Publishing, Toronto, Canada. Chapter 14.21.2. pp. 997-1016. 2001. ISBN 1-895198-24-0. <http://www.chemtec.org/books/book1-23.html>

Proceedings Short Papers

Azivy Che Aziz, Karl Rockne, Erik R. Christensen, Hua Wei, An Li. Sediment Physical Characteristics as a Biological Indicator for Microbial Reductive Debromination of Polybrominated Diphenyl Ethers (PBDEs). The Battelle 6th International Conference on the Remediation of Chlorinated and Recalcitrant Compounds, New Orleans, Louisiana, February 7–10, 2011.

Yonghong Zou, Erik R. Christensen, An Li, Hua Wei, Karl Rockne, Azivy Che Aziz. Polybrominated Diphenyl Ether Sources in Sediments of Bubbly Creek and Calumet Pond, Chicago Determined by Positive Matrix Factorization. The Battelle 6th International Conference on the Remediation of Chlorinated and Recalcitrant Compounds, New Orleans, Louisiana, February 7–10, 2011.

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Hua Wei, An Li. Mass Spectrometric Ionization Pattern of 209 Polychlorinated Biphenyls. Dioxin 2009, Beijing, China, August 25-28, 2009. *Organohalogen Compounds*. 71, 2615-2620.

Erik R. Christensen, Yonghong Zou, An Li, Karl Rockne, Hua Wei, Azivy C. Aziz. Modeling PAH, PCB, and PBDE sources and degradation in aquatic sediments based on factor analysis with nonnegative constraints. Proceedings, International Conference on Water Scarcity, Global Changes, and Groundwater Management Responses. Dec. 1-5, 2008, Irvine, CA.

An Li and Hua Wei. Analyzing Historical and Emerging Halogenated Flame Retardants in the Sediment of the Great Lakes. National Environmental Monitoring Conference (NEMC), August 11-16, 2008. Washington, DC.

Yawei Wang, Thanh Wang, An Li, Jianjie Fu, Pu Wang, Qinghua Zhang, Guibin Jiang. Oyster and blue mussels as bioindicators in the Chinese Bohai Sea: polybrominated diphenyl ethers, polychlorinated biphenyls, and organochlorine pesticides in mollusks. *Organohalogen Compounds* (2008), 70, 2392-2395.

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Jae-Kil Jang and An Li. Temporal and Spatial Distribution of PAHs and PCBs in Lake Calumet Area. Proceedings of the Air & Waster Management Association (AWMA) 94th Annual Conference & Exhibition, Orlando, FL, June 24-28, 2001, 6348-6355.

Xiaoyu Liu and An Li. Effect of Cosolvent on the Sequestration of Phenanthrene by Soils. Proceedings of the American Chemical Society 220th National Meeting. Washington, DC. Aug. 20-24, 2000. 40(2), 165-167.

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An Li, Ruiqiang Yang, Hua Wei, Jiehong Guo, Colin McLeod. Emerging Halogenated Flame Retardants in the Sediment of the Great Lakes. 12th Workshop on Brominated and other Flame Retardants. Boston, MA. June 6-7, 2011.

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Ruiqiang Yang, Hua Wei, An Li. Emerging Halogenated Organic Compounds in the Sediments of the Great Lakes. SETAC North America 31st Annual Meeting. Portland, Oregon. November 7-11, 2010

Yonghong Zou, Erik R. Christensen, An Li. PCBs and PBDEs in Great Lakes Sediments. IWA World Water Congress and Exhibition, Montréal, Canada. September 19–24, 2010

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An Li, Hua Wei, Azivy C. Aziz, Karl J. Rockne, Erik R. Christensen, Neil Sturchio, Margaret Sietsema, Yawei Wang, Guibin Jiang. Long Term Variation of PBDE Congener Pattern in Aquatic Sediments and its Implications. The Society of Environmental Toxicology and Chemistry (SETAC) North America Annual Meeting. New Orleans, November 19-23, 2009.

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Priyanthi S Dassanayake, Hua Wei, Chaoran Chen, An Li. Optimization of Matrix Solid Phase Dispersion Extraction Procedure for the Analysis of Polybrominated Diphenyl Ethers in Human Placenta. The Society of Environmental Toxicology and Chemistry (SETAC) North America Annual Meeting. New Orleans, November 19-23, 2009.

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Hua Wei, Priyanthi S. Dassanayake, An Li. Parametric evaluation for programmable temperature vaporization large volume injection in gas chromatographic analysis of polybrominated diphenyl ethers. Pittcon 2009. Chicago, March 8-13, 2009.

Erik R. Christensen, [An Li](#), Karl Rockne. Modeling PAH, PCB, and PBDE sources and degradation in aquatic sediments based on factor analysis with nonnegative constraints. International Conference on Water Scarcity, Global Changes, and Groundwater Management Responses. University of California – Irvine, December 1 - 5, 2008.

[An Li](#), Erik R. Christensen, Karl Rockne, Hua Wei, Azivy C. Aziz. Debromination of PBDEs in Aquatic Sediments – Background and Research Plan. The 5th International Symposium on Persistent Toxic Substances. Beijing, China. September 21-25, 2008

Priyanthi S. Dassanayake and [An Li](#). Optimization of Matrix Solid Phase Dispersion for the extraction of PBDEs from Human Placenta. The 5th International Symposium on Persistent Toxic Substances. Beijing, China. September 21-25, 2008

Hua Wei, [An Li](#), Mary Turyk, Salvatore Cali, Samuel Dorevitch, Serap Erdal. Polybrominated Diphenyl Ethers in Dust: Particle Size Fractionation, Evidence of Degradation and Human Exposure. The 5th International Symposium on Persistent Toxic Substances. Beijing, China. September 21-25, 2008

Karl J. Rockne, [An Li](#), Jayashree Jayaraj, Kelly Granberg. A Comparative Study of Brominated Flame Retardant Fate in Urban and Suburban Anaerobic Digesters. Illinois Water Environment Association (IWEA) 29th Annual Conference. Peoria, IL. March 18 - 20, 2008

Kelly Granberg, Karl J. Rockne, Jayashree Jayaraj, [An Li](#). The Role of Black Carbon on Hydrophobic Compound Fate in Anaerobic Digesters. Illinois Water Environment Association (IWEA) 29th Annual Conference. Peoria, IL. March 18 - 20, 2008

Hua Wei, [An Li](#), Serap Erdal. Assessment of Health Risks Associated with Exposure to Polychlorinated Biphenyls (PCBs) for Consumers of Fish in Ontario, Canada. SETAC North America 28th National Meeting, Milwaukee WI, Nov. 11-16, 2007.

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[An Li](#). Spatial Distribution and Temporal Trends of PBDEs and PCBs in the Great Lakes Sediments. Joint Meeting of Midwest Chapter of the Society of Environmental Toxicology and Chemistry (SETAC) and Chicago Regional Chapter of the Society for Risk Analysis (SRA). Argonne National Laboratory, March 14-16, 2007.

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An Li, Wenlu Song, Justin Ford, Neil C. Sturchio, David R. Buckley, Karl J. Rockne, Bill J. Mills. Chronology of PBDE Air Deposition in the Great Lakes from Sedimentary Records. International Conference: The Urban Dimensions of Environmental Change. East China Normal University, Shanghai, China. May 25, 2004.

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David M. Schwope, Robert Malcolm, William Mills, and An Li. Source Profiles and Emissions Quantitation of PCB to Ambient Air from Transformers. 26th Midwest Environmental Chemistry Workshop. Iowa City, Iowa. Oct. 11-12, 2003.

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Invited Presentations (Keynote, Plenary, Seminar and Lectures)

Persistent and Bioaccumulative Organic Pollutants of Emerging Concerns: Flame Retardants in the Great Lakes. Invited seminar at Department of Civil and Environmental Engineering, Northwestern University. May 28, 2010

Historical and Emerging Halogenated Organic Pollutants in the Sediment of the Great Lakes. Emerging Chemicals Screening in Multi-Media Working Group, USEPA Region 5, Chicago. August 11, 2009.

PBDEs and Beyond. Invited Lecture at the Research Center for Eco-Environmental Sciences, Beijing, China. November 10, 2008.

Occupational Exposure to PBDEs and Other Halogenated Flame Retardant Chemicals - A Literature Review. Interdisciplinary Occupational and Environmental Health seminar series. November 5, 2008.

Persistent Bioaccumulative and Toxic (PBT) Organic Pollutants in Lake Michigan. Panelist. Experience UIC Day, University of Illinois Alumni Association. UIC campus, Chicago, September 6, 2008.

PBDEs in Human placenta. The 4th International Symposium on Persistent Toxic Substances. Beijing, China. November 18-21, 2007

PBDEs and PCBs in the sediments of the Great Lakes: Distributions, trends, influencing factors, and implications. Great Lakes Research: Environmental Issues for a Freshwater Ecosystem (CINF Division), 233rd American Chemical Society National Meeting, Chicago, IL, March 25-29, 2007

Long Range Transport and In-Situ Degradation of PCBs in the Great Lakes. The 3rd International Symposium on Persistent Toxic Substances. Beijing, China. October 22-26, 2006.

Final Report: Chronology of PBDE Air Deposition in the Great Lakes from Sedimentary Records. Invited Seminar, USEPA Region 5, Chicago. June 13, 2006.

How PCBs Get into Polar Bears at the North Pole? Undergraduate Special Seminar, College of Environmental Sciences, Nanjing University, Nanjing, China. June 27, 2005.

Quality Assurance and Quality Control in Environmental Organic Trace Analysis. Invited Seminar. College of Environmental Sciences, Nanjing University, Nanjing, China. May 10, 2005.

Analysis of PBDEs in Environmental Samples. Lecture in the 1st National Training Class for Environmental Analytical Techniques. Research Center for Eco-Environmental Sciences, Beijing, China. March 20, 2005.

Emerging Environmental Challenges – “New Organic Pollutants”. Invited Seminar, Shanghai Jiao-tong University, Shanghai, China. December 28, 2004.

Long Range Transport, Spatial Distribution, and Chronology of Input Flux of PBDEs to the Great Lakes. Invited speaker at the 1st International Symposium on Persistent Toxic Substances. Beijing, China. Nov 7-11, 2004.

Temporal and Spatial Distribution of PBDEs and PCBs in the Sediments of the Great Lakes. Invited Seminar, Chinese Academy of Sciences, Research Center for Eco-Environmental Sciences. Beijing, China. July 2, 2004.

Chronology of PBDE Air Deposition in the Great Lakes from Sedimentary Records. Invited Seminar, USEPA Central laboratory, Chicago. Feb. 18, 2004.

PBDEs – An Emerging Environmental Challenge. Environmental Health Science and Policy Research Forum. University of Illinois at Chicago. Nov. 30, 2001.

Source Apportionment of Polycyclic Aromatic Hydrocarbons in the Sediment of Lake Calumet Area, Chicago. Invited speaker, research seminar, Water Chemistry Program, University of Wisconsin-Madison. April 27, 2001.

Priority Organic Pollutants in the Sediment of the Milwaukee Harbor Estuary. Invited speaker, research seminar, the Department of Earth and Environmental Sciences. University of Illinois at Chicago. Feb. 10, 2000.

Cosolvent Enhanced Electrokinetic Remediation of Soils Contaminated by Polycyclic Aromatic Hydrocarbons. Invited speaker, research seminar, Department of Civil Engineering, University of Wisconsin - Milwaukee. Nov. 22, 1999.

Sources of Polycyclic Aromatic Hydrocarbons in the Sediment of the Milwaukee Harbor Estuary. Invited seminar at the Tianjin Environmental Science Academy, China. July 20, 1999.

Work Reports

Project Final Reports

An Li and Priyanthi Shyamalee Dassanayake. Method Development for the Analysis of PBDEs in Human Placenta Tissue. Final Report to the National Institute of Health (NIH): National Institute of Environmental Health Sciences (NIEHS). June 2011.

An Li, Ruiqiang Yang, Hua Wei, Colin McLeod. Halogenated Organic Pollutants in the Sediments of the Great Lakes. Final Report to the USEPA Great Lakes National Program Office (GLNPO). (in preparation).

Samuel Dorevitch (PI), An Li, Li Liu, Peter A. Scheff. Measuring Water Ingestion among Water Recreators. Final Report to the Water Environment Research Foundation. WERF Report PATH5R09. May 2010. <http://www.iwapublishing.com/template.cfm?name=isbn9781843396192>

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An Li, Irwan A. Abrazak, and Erik R. Christensen. Toxic Organic Contaminants in the Sediments of the Milwaukee Harbor Estuary. Final Reports to the U.S. Army Corps of Engineers, University of Wisconsin-Milwaukee, 1995.

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Andy L. Sandy, Jiehong Guo, An Li, John Giesy. Quality Assurance Program Plan for Chemical Analysis, Great Lakes Sediment Surveillance Program (GLSSP). Submitted to USEPA Great Lakes National Program Office (GLNPO). January 2011.

An Li and Hua Wei. Quality Assurance Project Plan. Report to USEPA Great Lakes National Program Office (GLNPO). October 2007.

Karl Rockne, Jayashree Jayaraj, An Li. Quality Assurance Project Plan. Submitted to Illinois Department of Natural Resources Waste Management and Research Center (WMRC), November 2006.

An Li, Karl Rockne, Bill Mills, Wenlu Song, and Dave Gunty. Quality Assurance Project Plan. Report to USEPA Great Lakes Air Deposition Program. February 2002.

An Li, Felice Norlock, Jae-Kil Jang, Peter Scheff, and Richard Wadden. The Quality Assurance and Quality Control Plan. Report to the Mickey Leland National Urban Air Toxics Research Center, Houston, TX. University of Illinois at Chicago, Jan. 2000.

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An Li, Karl J. Rockne, Hua Wei, Azivy Che Aziz, Margaret Sietsema. Year-2 Progress Report. Collaborative Research: Debromination of PBDEs in Aquatic Sediments. Submitted to NSF. March 8, 2010.

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An Li, Karl J. Rockne, Hua Wei, Azivy Che Aziz. Year-1 Progress Report. Collaborative Research: Debromination of PBDEs in Aquatic Sediments. Submitted to NSF. February 13, 2009.

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An Li and Hua Wei. Progress Report #1. Halogenated Organic Pollutants in the Sediments of the Great Lakes. USEPA Great Lakes National Program Office (GLNPO). February 1, 2008.

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