

Li Li

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Department of Physical and Environmental Sciences, University of Toronto Scarborough

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Personal Information

Born: Aug. 31, 1989 in Guangxi, P. R. China

Citizenship: Chinese; Permanent resident in Canada

Languages: Native fluency in Chinese, professional fluency in English

Research Interests

Understanding the accumulation, transport, and transformation of hazardous manufactured chemicals in an integrated continuum comprising the human socioeconomic system (the “anthroposphere”), indoor-urban-natural environments (the “environment”), and food chains and humans (the “biosphere”).

Higher Education

Sep.2012 – Jul.2017 **Doctor of Science (D.Sc.) in Environmental Sciences**

Peking University, P.R. China

Dissertation: Modeling the Fate of Chemicals in Products

Advisor: Prof. Jianxin Hu

Sep.2008 – Jun.2012 **Bachelor of Science (B.Sc.) in Environmental Sciences**, with highest honor

Nankai University, P.R. China

Dissertation: Evaluation of Environmental Risk of Perfluorooctanic Acid and its Salts

Advisor: Prof. Hongwen Sun

Professional Experience

Sep.2017 – present Postdoctoral fellow specialized in environmental modeling

University of Toronto Scarborough, Canada

Advisors: Prof. Frank Wania and Dr. Jon A. Arnot

Sep.2015 – Sep.2016 Visiting student in Environmental Chemistry

University of Toronto Scarborough, Canada

Advisor: Prof. Frank Wania

Jul.2011 – Sep.2011 Visiting student, Cross-disciplinary Scholars in Science and Technology program

University of California, Los Angeles (UCLA), United States

Advisor: Prof. Irwin H. (Mel) Suffet

Peer-reviewed Journal Papers

Publication Summary and Metrics

Journal	First author	Coauthor	Total	Impact factor [#]	Journal ranking [#]
<i>Environ. Sci. Technol.</i>	9	2	11	6.653	11/241 in Environ. Sci. 4/50 in Environ. Eng.
<i>Environ. Int.</i>	3	0	3	7.297	7/241 in Environ. Sci.
<i>Chemosphere</i>	1	1	2	4.427	34/241 in Environ. Sci.
<i>J. Hazard Mat.</i>	1	0	1	6.434	13/241 in Environ. Sci. 5/50 in Environ. Eng.
<i>Mol. Inform.</i>	1	0	1	1.955	20/59 in Math. Comput. Bio. 40/59 in Chem. Med.
<i>Sci. Total Environ.</i>	0	6	6	4.610	27/241 in Environ. Sci.
<i>Environ. Pollut.</i>	0	2	2	4.358	39/241 in Environ. Sci.
<i>Sci. Bull.</i>	0	1	1	4.136	11/64 in Multidiscip. Sci.
<i>Atmos. Environ.</i>	0	2	2	3.708	54/241 in Environ. Sci. 16/86 in Meteorol. Atmos. Sci.
Chinese journals	2	4	6	N.A.	N.A.
Total	17	18	35		

[#] Updated based on 2018 Journal Citation Reports Science Edition.

Peer-reviewed papers in international journals

("*" = corresponding author; "#" = supervised or co-supervised students)

- 2019 1) **Li, L.***, Arnot, J. A., Wania, F.
How are humans exposed to organic chemicals released to indoor air?
Environ. Sci. Technol. 2019, accepted
doi: 10.1021/acs.est.9b02036
- 2) Abbasi, G.*, **Li, L.**, Breivik, K.
Global historical stocks and emissions of PBDEs.
Environ. Sci. Technol. 2019, 53, 6330-6340
doi: 10.1021/acs.est.8b07032
- 3) Shen, K., **Li, L.**, Chen, C., Liu, J.*
Stocks, flows and emissions of DBDPE in China and its international distribution through products and waste.
Environ. Pollut., 2019, 250, 79-86
doi: 10.1016/j.envpol.2019.03.090
- 4) Chen, C.#, **Li, L.***, Liu, J., Liu, J.*
Global environmental fate of short-chain chlorinated paraffins: Modeling with a single vs. multiple sets of physicochemical properties.
Sci. Total Environ., 2019, 666, 423-430
doi: 10.1016/j.scitotenv.2019.02.157
- 5) Cao, Y., **Li, L.**, Shen, K., Liu, J.*

Disease burden attributable to endocrine-disrupting chemicals exposure in China: A case study of phthalates.
Sci. Total Environ., 2019, 662, 615-621
doi: 10.1016/j.scitotenv.2019.01.255

- 6) Ding, R., **Li, L.**, Yang, P., Luo, L., Li, L., Wang, Q.*
Assessing the environmental occurrence and risk of nano-silver in Hunan, China using probabilistic material flow modeling.
Sci. Total Environ., 2019, 658, 1249-1255
doi: 10.1016/j.scitotenv.2018.12.254
- 2018 7) **Li, L.**, Westgate, J. N., Hughes, L., Zhang, X., Givehchi, B., Toose, L., Armitage, J.M., Wania, F., Egeghy, P., Arnot, J.A.*
A model for risk-based screening and prioritization of human exposure to chemicals from near-field sources.
Environ. Sci. Technol. 2018, 52, 14235-14244
doi: 10.1021/acs.est.8b04059
- 8) **Li, L.***, Wania, F.
Elucidating the variability in the hexabromocyclododecane diastereomer profile in the global environment.
Environ. Sci. Technol. 2018, 52, 10532-10542
doi: 10.1021/acs.est.8b03443
- 9) **Li, L.***, Arnot, J. A., Wania, F.
Towards a systematic understanding of the dynamic fate of polychlorinated biphenyls in indoor, urban and rural environments.
Environ. Int. 2018, 117, 57-68
doi: 10.1016/j.envint.2018.04.038
- 10) **Li, L.***, Arnot, J. A., Wania, F.
Revisiting the contributions of far- and near-field routes to aggregate human exposure to polychlorinated biphenyls (PCBs).
Environ. Sci. Technol., 2018, 52, 6974-6984
doi: 10.1021/acs.est.8b00151
- 11) **Li, L.***, Wania, F.
Occurrence of single- and double-peaked emission profiles of synthetic chemicals.
Environ. Sci. Technol. 2018, 52: 4684-4693
doi: 10.1021/acs.est.7b06478
- 12) Ti, B.#, **Li, L.**, Liu, J.*, Chen, C.
Global distribution potential and regional environmental risk of F-53B.
Sci. Total Environ., 2018, 640-641: 1365-1371
doi: 10.1016/j.scitotenv.2018.05.313
- 2017 13) **Li, L.***, Wania, F.
Mechanistic pharmacokinetic modelling of the bioamplification of persistent lipophilic organic pollutants in humans during weight loss.
Environ. Sci. Technol. 2017, 51: 5563-5571
doi: 10.1021/acs.est.7b00055

- 14) **Li, L.***, Liu, J.*, Hu, J., Wania, F.
Degradation of fluorotelomer-based polymers contributes to the global occurrence of fluorotelomer alcohol and perfluoroalkyl carboxylates: A combined dynamic substance flow and environmental fate modeling analysis.
Environ. Sci. Technol. 2017, 51: 4461–4470
doi: 10.1021/acs.est.6b04021
- 15) Wang, J., **Li, L.**, Liu, J.*, Ti, B.
Distribution mode and environmental risk of POP pesticides such as endosulfan under the agricultural practice of straw incorporating.
Environ. Pollut. 2017, 220: 1394–1399
doi: 10.1016/j.envpol.2016.10.095
- 2016 16) **Li, L.***, Wania, F.
Tracking chemicals in products around the world: introduction of a dynamic substance flow analysis model and application to PCBs.
Environ. Int. 2016, 94: 674–686
doi: 10.1016/j.envint.2016.07.005
- 17) **Li, L.**, Weber, R., Liu, J.*, Hu, J.
Long-term emissions of hexabromocyclododecane as a chemical of concern in products in China.
Environ. Int. 2016, 91: 291–300
doi: 10.1016/j.envint.2016.03.007
- 18) Wang, Z., Fang, X., **Li, L.**, Bie, P., Li, Z., Hu, J., Zhang, B., Zhang, J.*
Historical and projected emissions of HCFC-22 and HFC-410A from China's room air conditioning sector.
Atmos. Environ. 2016, 132: 30–35
doi: 10.1016/j.atmosenv.2016.02.029
- 2015 19) **Li, L.**, Liu, J.*, Hu, J.
Global inventory, long-range transport and environmental distribution of dicofol.
Environ. Sci. Technol. 2015, 49: 212–222
doi: 10.1021/es502092x
- 20) **Li, L.**, Zhai, Z., Liu, J., Hu, J.*
Estimating industrial and domestic environmental releases of perfluorooctanoic acid and its salts in China from 2004 to 2012.
Chemosphere 2015, 129: 100–109
doi: 10.1016/j.chemosphere.2014.11.049
- 21) Su, S., Fang, X., **Li, L.**, Wu, J., Zhang, J., Xu, W., Hu, J.*
HFC-134a emissions from mobile air conditioning in China from 1995 to 2030.
Atmos. Environ. 2015, 102: 122–129
doi: 10.1016/j.atmosenv.2014.11.057
- 22) Zhai, Z., Wu, J., Hu, X., **Li, L.**, Guo, J., Zhang, B., Hu, J., Zhang, J.*
A 17-fold increase of trifluoroacetic acid in landscape waters of Beijing, China during the last decade.
Chemosphere 2015, 129: 110–117

doi: 10.1016/j.chemosphere.2014.09.033

- 2014 23) **Li, L.**, Wang, Q., Qiu, X., Dong, Y., Jia, S., Hu, J.*
Field determination and QSPR prediction of equilibrium-status soil/vegetation partition coefficient of PCDD/Fs
J. Hazard. Mater. 2014, 276: 278–286
doi: 10.1016/j.jhazmat.2014.05.036
- 24) **Li, L.**, Xu, J.*, Hu, J., Han, J.
Reducing nitrous oxide emissions to mitigate climate change and protect the ozone layer.
Environ. Sci. Technol. 2014, 48: 5290–5297
doi: 10.1021/es404728s
- 25) **Li, L.**, Hu, J., Ho, Y.-S.*
Global performance and trend of QSAR/QSPR research: A bibliometric analysis.
Mol. Inform. 2014, 33: 655–668
doi: 10.1002/minf.201300180
- 26) Dong, Y., **Li, L.**, Bie, P., Jia, S., Wang, Q., Huang, Z., Qiu, X., Zhang, J., Hu, J.*
Polybrominated diphenyl ethers in farmland soils: source characterization, deposition contribution and apportionment.
Sci. Total Environ. 2014, 466–467: 524–532
doi: 10.1016/j.scitotenv.2013.07.058
- 27) Han, J., **Li, L.**, Su, S., Wu, J., Fang, X., Jia, S., Zhang, J., Hu, J.*
Estimated HCFC-142b emissions in China: 2000–2050
Chin. Sci. Bull. 2014, 59: 3046–3053
doi:10.1007/s11434-014-0337-z
- 28) Jia, S., Wang, Q., **Li, L.**, Fang, X., Shi, Y., Xu, W., Hu, J.*
Comparative study on PCDD/F pollution in soil from the Antarctic, Arctic and Tibetan Plateau.
Sci. Total Environ. 2014, 497–498: 353–359
doi: 10.1016/j.scitotenv.2014.07.109
- 29) Wu, J., Martin, J.W., Zhai, Z., Lu, K., **Li, L.**, Fang, X., Jin, H., Hu, J.*
Airborne trifluoroacetic acid and its fraction from the degradation of HFC-134a in Beijing, China.
Environ. Sci. Technol. 2014, 48: 3675–3681
doi: 10.1021/es4050264

Peer-reviewed papers in Chinese journals

("*" = corresponding author)

- 30) 郝薛文, **李力**, 王杰, 曹燕, 刘建国*
全氟和多氟烷基化合物的环境风险评估研究现状、不确定性与趋势分析.
环境科学, 2015, 36: 3106–3118;
Hao, X., **Li, L.**, Wang, J., Cao, Y., Liu, J.*
Status quo, uncertainties and trends analysis of environmental risk assessment for PFASs.
Environ. Sci., 2015, 36: 3106–3118 (in Chinese with English Abstract).

- 31) 刘建国, **李力**, 胡建信*
 高关注物质(SVHCs): 中国化学品风险管理体系、能力和基础研究挑战.
 科学通报, 2013, 58: 2643–2650;
 Liu, J., **Li, L.**, Hu, J.*
 Substances of very high concern: Challenge to risk management system, capability and fundamental research of chemicals in China.
Chin. Sci. Bull. (Chin. Ver.), 2013, 58: 2643–2650 (in Chinese with English Abstract).
- 32) 韩佳蕊, **李力**, 方雪坤, 吴婧, 苏燊, 温新元, 吴宇声, 胡建信*
 基于物种间浓度相关法估算 2012 年中国 HCFC-142b 排放量.
 北京大学学报(自然科学版), 2015, 51: 123–130;
 Han, J., **Li, L.**, Fang, X., Wu, J., Su, S., Wen, X., Wu, Y., Hu, J.*
 Estimate of anthropogenic HCFC-142b emission from China in 2012 by interspecies correlation.
Acta Sci. Nat. Univ. Peking, 2015, 51: 123–130 (in Chinese with English Abstract).
- 33) **李力**, 陆宇超, 刘娅, 孙红文*, 梁中耀
 玉米秸秆生物炭对 Cd(II)的吸附机理研究.
 农业环境科学学报, 2012, 31: 2277–2283;
Li, L., Lu, Y., Liu, Y., Sun, H.*, Liang, Z.
 Adsorption mechanisms of cadmium (II) on biochars derived from corn straw.
J. Agro-Environ. Sci. 2012, 31: 2277–2283 (in Chinese with English abstract)
- 34) 张鹏, 武建羽, **李力**, 刘娅, 孙红文*, 孙铁珩
 猪粪制备的生物炭对西维因的吸附与催化水解作用.
 农业环境科学学报, 2012, 31: 416–421;
 Zhang, P., Wu, J., **Li, L.**, Liu, Y., Sun, H.*, Sun, T.
 Sorption and catalytic hydrolysis of carbaryl on pig-manure-derived biochars.
J. Agro-Environ. Sci. 2012, 31: 416–421 (in Chinese with English abstract)
- 35) **李力**, 刘娅, 陆宇超, 梁中耀, 张鹏, 孙红文*
 生物炭的环境效应及其应用的研究进展.
 环境化学, 2011, 30: 1411–1421;
Li, L., Liu, Y., Lu, Y., Liang, Z., Zhang, P., Sun, H.*
 Review on environmental effects and application of biochar.
Chin. Environ. Chem. 2011, 30: 1411–1421 (in Chinese with English abstract)

Presentations at Seminars and Conferences

Invited Talks

- 1) **Li, L.**, Understanding and Quantifying the Fate of Chemicals in the “Total” Environment. *The Japan’s National Institute for Environmental Studies* (国立環境研究所), Tsukuba, Japan. Feb. 7, 2019

Oral (Platform) Presentations at Conferences and Workshops

(“#” = supervised or co-supervised students)

- 1) **Li, L.**, Hoang, C.#, Arnot, J. A., Wania, F. What Can We Learn From the Temporal Trend of Human Exposure

and Concentrations of PBDEs? *SETAC Europe 29th Annual Meeting*. Helsinki, Finland. May 26–30, 2019.

- 2) **Li, L.**, Arnot, J. A., Wania, F., Using Lifecycle Chemical Emission Information for Exposure- and Risk-Based Assessments. *The Toxicology Forum 2019: Determining Relevant Low-Level Chemical Exposures for Safety Assessments of Consumer Products*. Brussels, Belgium. May 20–22, 2019.
- 3) **Li, L.**, Arnot, J. A., Wania, F., Incorporating Lifecycle Emission Information into Chemical Exposure Screening. *SETAC North America 39th Annual Meeting*. Sacramento, CA, United States. Nov. 4–8, 2018.
- 4) **Li, L.**, Arnot, J. A., Wania, F., Elucidating the Dominant Pathways of Human Exposure to Chemicals Used Indoors. *SETAC North America 39th Annual Meeting*. Sacramento, CA, United States. Nov. 4–8, 2018.
- 5) **Li, L.**, Arnot, J. A., Wania, F., From Chemical Production to Aggregate Human Exposure: Introduction of an Integrated Modeling Framework. *XXIX Interamerican Congress of Chemical Engineering Incorporating the 68th Canadian Chemical Engineering Conference (XXIX IACChE and 68th CShE)*. Toronto, ON, Canada. Oct. 28–31, 2018.
- 6) **Li, L.**, Arnot, J. A., Wania, F., Using a Dynamic, Aggregate Exposure Model to Identify Far- and Near-Field Contributions to Human PCB Exposure through Time. *SETAC Europe 28th Annual Meeting*. Rome, Italy. May 13–17, 2018.
- 7) **Li, L.**, Hu, J., Wania, F., Investigating Variability in HBCDD Diastereomer Profile in the Environment. *International Conference on Chemistry and the Environment (ICCE) 2017*. Oslo, Norway. Jun. 18–22, 2017.
- 8) **李力**, 刘建国, 胡建信, Wania, F., 环境中全氟辛酸及其盐类的来源. 持久性有机污染物论坛 2017 暨第十二届持久性有机污染物全国学术研讨会. 中国武汉. 2017 年 5 月 17–18 日;
Li, L., Liu, J., Hu, J., Wania, F., Elucidating Sources of Perfluorooctanoic Acid and its Salts in the Environment. *China's POPs Forum 2017 and 12th National Symposium in POPs*, Wuhan, P.R. China. May 17–18, 2017.
- 9) **Li, L.**, Wania, F., Liu, J., Is Pandora's Box Being Opened? Long-term Fate of Hexabromocyclododecane in the Global Anthroposphere in Response to Historical Uses. *The 15th Annual Workshop on Brominated & Other Flame Retardants (BFR)*. Toronto, ON, Canada. May 5–6, 2016.
- 10) **Li, L.**, Liu, J., Wania, F., Characterizing Spatiotemporal Pattern of Global PFAS Releases Using a Dynamic Substance Flow Analysis Model. *SETAC Europe 26th Annual Meeting*. Nantes, France. May 22–26, 2016.
- 11) **李力**, 刘建国, 胡建信. 中国全氟辛酸及其盐类的环境释放估算. 持久性有机污染物论坛 2015 暨第十届持久性有机污染物全国学术研讨会. 中国桂林. 2015 年 5 月 17–18 日;
Li, L., Liu, J., Hu, J., Estimating Environmental Releases of Perfluorooctanoic Acid and its Salts in China. *China's POPs Forum 2015 and 10th National Symposium in POPs*, Guilin, P.R. China. May 17–18, 2015.
- 12) **Li, L.**, Liu, J., Jia, S., Xu, W., Dong, Y., Zhang, J., Hu, J., Primitive Thermal Treatment of DecaBDE-Containing WEEE in China: a Source of Lighter Congeners in the Ambient Environment. *The 14th Annual Workshop on Brominated & Other Flame Retardants (BFR)*. Indianapolis, IN, United States. Jun. 22–25, 2014.
- 13) **李力**, 刘建国, 胡建信. 三氯杀螨醇全球使用状况及长距离迁移潜力评估. 持久性有机污染物论坛 2014 暨第九届持久性有机污染物全国学术研讨会. 中国昆明. 2014 年 5 月 17–18 日;
Li, L., Liu, J., Hu, J., Dicofol: Can it Really be a Global Traveler and Environmental Concern as a POP? *China's POPs Forum 2014 and 9th National Symposium in POPs*, Kunming, P.R. China. May 17–18, 2014.

- 14) Li, L., Dong, Y., Liu, J., Hu, J. Thermal Debromination of DecaBDE to Lower Substituted Congeners. *The 3rd International Conference on Environmental Simulation and Pollution Control*, Beijing, P.R. China. Nov. 6–8, 2013.
- 15) Li, L., Lu, Y., Liu, Y., Wu, J., Liang, Z., Sun, H. Productivity Enhancement and Cadmium Mobilization: Is Biochar Good or Evil? *The 3rd International Conference on Pollution Ecology*. Tianjin, P.R. China. Nov. 5–7, 2012.

Oral (Platform) Presentations Presented by My Collaborators and/or Students at Conferences and Workshops

(Presenter underlined; “#” = supervised or co-supervised students)

- 1) Arnot, J., Li, L., Wania, F.; Becker, R., Developing Internal Threshold of Toxicological Concern Data for Applications in Aggregate Exposure and Safety Assessments. *The Toxicology Forum 2019: Determining Relevant Low-Level Chemical Exposures for Safety Assessments of Consumer Products*. Brussels, Belgium. May 20–22, 2019.
- 2) Zhang, Z.[#], Li, L., Wania, F. Can We Say Something about the Environmental Fate of Molecules Sharing the Same Molecular Formula without Knowing Their Exact Structures? *The 47th Southern Ontario Undergraduate Student Chemistry Conference*. Toronto, ON, Canada, March 30, 2019. (Second Place Award)
- 3) Li, L., Xu, F., Wood, S. A., Armitage, J. M., Wania, F. Quantifying the Impact of Weight Changes on the Individual and Population Level on POP Concentrations in Humans. *The 37th International Symposium on Halogenated Persistent Organic Pollutants (POPs) – DIOXIN 2017*. Vancouver, BC, Canada, Aug. 20–25, 2017.

Poster Presentations

(“#” = supervised or co-supervised students)

- 1) De Brouwere, K., Arnot, J., Geerts, L., Lamoree, M., Li, L., Evaluating the RAIDAR-ICE Model with Monitoring Data of Emerging SVOC Compounds in the Indoor Environment. *The Joint Annual Meeting of the International Society of Exposure Science and Indoor Air Quality and Climate (ISES-ISIAQ2019)*. Kaunas, Lithuania. August 18–22, 2019.
- 2) Arnot, J., Li, L., De Brouwere, K., Geerts, L., Lamoree, M., Evaluating the RAIDAR-ICE Model with Monitoring and Biomonitoring Data. *SETAC Europe 29th Annual Meeting*. Helsinki, Finland. May 26–30, 2019.
- 3) Chen, C.[#], Wang, J., Li, L., Liu, J., Liu, J., Emissions and Fate of Fluorotelomer Alcohols in Municipal Sewage Treatment Plants. *SETAC Europe 29th Annual Meeting*. Helsinki, Finland. May 26–30, 2019.
- 4) Yang, Q.[#], Li, L., Wania, F., How Does Urban and Peri-urban Agriculture Impact Human Exposure to Organic Contaminants? *XXIX Interamerican Congress of Chemical Engineering Incorporating the 68th Canadian Chemical Engineering Conference (XXIX IACChE and 68th CSChE)*. Toronto, ON, Canada. Oct. 28–31, 2018.
- 5) Li, L., Arnot, J. A., Wania, F., Incorporating Lifecycle Emission Information in Promoting Chemical Exposure Screening. *The Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology (ISES-ISEE 2018)*. Ottawa, ON, Canada. Aug. 26–30, 2018.
- 6) Arnot, J. A., Li, L., Givehchi, B., Comparisons of the RAIDAR-ICE Model with Other Exposure Models and Exposure Estimates. *The International Council of Chemical Associations’ Long-Range Research Initiative*

(ICCA-LRI) Workshop 2018. Ottawa, ON, Canada. Jun. 20-21, 2018.

- 7) Arnot, J.A., **Li, L.**, Westgate, J. N., Hughes, L., Zhang, X., Givvehchi, B., Armitage, J. M., A Modelling Framework to Link Aggregate Exposure Pathways with Internal Exposures and Potential Bioactivity. *SETAC Europe 28th Annual Meeting*. Rome, Italy. May 13–17, 2018.
- 8) **Li, L.**, Liu, J., Hao, X., Hu, J., Forthcoming Increase of Total PFAS Emissions in China. *FLUOROS 2015: An International Symposium on Poly- and Perfluoroalkyl Substances in the Environment*. Golden, CO, United States. Jul. 12-14, 2015.
- 9) Jia, S., Wang, Q., **Li, L.**, Dong, Y., Bie, P., Hu, J., Comparative Study on PCDD/Fs in Soil and Moss From the Arctic, Antarctic and Tibet Plateau. *The 3rd International Conference on Environmental Simulation and Pollution Control*, Beijing, P.R. China. Nov. 6–8, 2013.

Peer-reviewed Books and Chapters

- 1) Li, L., Modeling the Fate of Chemicals in Products. Springer, 2020 (in process)
- 2) Wania, F., **Li, L.**, McLachlan, M. S., Mechanistically modeling human exposure to persistent organic pollutants. In: Jiang, G., Li, X., (Eds). *A New Paradigm for Environmental Chemistry and Toxicology: From Concepts to Insights*. Singapore, Springer, 2020, pp. 115-128
- 3) 李力, 孙磊. 生物炭对土壤肥力及作物生长的影响. 见: 孙红文主编, 生物炭与环境, 化学工业出版社, 2013: 80-112;
Li, L. Sun, L., Effects of biochar application on soil fertility and plant growth. In: Sun, H., (Eds). *Biochar and Environment*. Beijing: Chemical Industrial Press. 2013, pp. 80–112. (in Chinese)

Honors, Scholarships and Awards

- 1) “Springer Theses” Outstanding Ph.D. Research Award (Springer; 2017)
- 2) Chinese Government Scholarship (China Scholarship Council; 2015)
- 3) China’s National Doctoral Scholarship (Ministry of Education of China; 2013, 2015)
- 4) Scholarship for Nationally Outstanding Young Doctoral Researchers (Shanghai Tongji Gao Tingyao Environmental Science and Technology Development Foundation; 2015)
- 5) National Best Paper Award (Chinese Society for Environmental Sciences; 2014)
- 6) PKU's Person of the Year 2014 (Peking University; 2014)

Student Mentoring

Co-supervised undergraduate students

Qingyuan Yang (University of Toronto Scarborough, 2018; co-supervised with Prof. Frank Wania)

Christopher Hoang (University of Toronto Scarborough, 2018; co-supervised with Prof. Frank Wania;

Supported his successful application for the NSERC Undergraduate Student Research Awards)

Zhizhen Zhang (University of Toronto Scarborough, 2019; co-supervised with Prof. Frank Wania)

Teaching

University courses

- 2017 Global Environmental Issues (Section “*Persistent Organic Pollutants: Science and Policy*”)
Peking University | Undergraduate course, Enrolment 110, 5 lectures for my section
- 2017 Departmental Biweekly Environmental Chemistry Tutorial (Section “*Environmental Modeling*”)
Peking University | Graduate tutorial, Enrolment 4, 10 lectures

Pre-conference short training courses

- 2019 Mechanistic process-based fate and exposure models: Tools for researchers and regulators (SETAC Europe 29th Annual Meeting; with Arnot J., Bonnell M., Toose L.)

Professional Activities

Journal Referee (40+ manuscripts)

Chemosphere
Desalination and Water Treatment
Environment International
Environmental Health Perspective
Environmental Pollution
Environmental Science and Pollution Research
Environmental Science & Technology
Environmental Science & Technology Letter
Journal of Agricultural and Food Chemistry
Science of the Total Environment (*Outstanding Reviewer* awarded in 2017)

Professional Affiliations / Memberships

Society of Environmental Toxicology and Chemistry (SETAC), member
International Society of Exposure Science (ISES), member
International Panel on Chemical Pollution (IPCP), member

Administrative responsibilities

Member, MEnvSc Thesis Defense Committee (Babak Givehchi), University of Toronto Scarborough, Apr. 2018

Volunteer and outreach activities

- 1) Environment-friendly Youth Ambassador (environmental education and training), awarded by the Ministry of Environmental Protection of China. Nov. 2012
- 2) President, Institute of Environmental Public Policy (IoEPP) of Peking University, 2013–2014
- 3) TEDx PKU invited speaker, “*We are ‘yeast’ in a world of synthetic chemicals*”. Jun. 2014

Consultancy

- 1) Contributing author, *Update to China's National Implementation Plan of the Stockholm Convention*. Ministry of Environmental Protection of China, 2016
- 2) Consulting scientist, *Detox Outdoor* project on toxic perfluoroalkyl substances, Greenpeace (Hong Kong), 2015–2016
- 3) Part-time consultant, New Substances Risk Assessment and Notification, Jingqing Tech, Co., 2013–2015

Research Supports

Principal Investigator

- 1) Integrated Far- and Near-field Human Exposure Modeling for Organic Substances. *Canada Mitacs Elevate Postdoctoral Fellowship* (No. IT09514). CAD\$110,000 for 2017–2019.

Participating Investigator

- 1) Integrating Dynamic Substance Flow Analysis and Multimedia Models for Assessing Environmental Risk of Short-chain Perfluoroalkyl Substances. *National Natural Sciences Foundation of China* (中国国家自然科学基金常规面上项目; No. 21577002). CNY 880,000 for 2015–2019 (PI: Jianguo Liu).