

## Ying Xu

Department of Building Science, Room 201,  
Tsinghua University, Beijing 100084, China  
[xu-ying@mail.tsinghua.edu.cn](mailto:xu-ying@mail.tsinghua.edu.cn)

### EDUCATION:

Virginia Tech	Civil Engineering	Ph.D.	May 2009
Tsinghua University, China	Civil Engineering	M.S.	July 2004
Tsinghua University, China	Civil Engineering	B.S.	July 2001

### CURRENT AND PREVIOUS ACADEMIC POSITIONS:

Tsinghua University	Associate Professor (Tenured)	August 2018 – Present
The University of Texas at Austin	Associate Professor (Tenured)	August 2016 – July 2018
The University of Texas at Austin	Assistant Professor	August 2009 – July 2016

### OTHER PROFESSIONAL EXPERIENCE:

Virginia Tech	Graduate Research Assistant	August 2004 – May 2009
Virginia Tech	Teaching Assistant	January 2008 – May 2008
Tsinghua University	Graduate Research Assistant	September 2001 – July 2004
Tongfang Co., Ltd., China	Consulting Engineer Intern	May 2002 – September 2002
Tsinghua University	Undergraduate Research Assistant	September 1999 – July 2001

### HONORS AND AWARDS:

- **New Investigator Award** from Southwest Center for Occupational and Environmental Health, National Institute for Occupational Safety and Health (2017)
- Virginia Tech CEE **Outstanding Young Alumni Award** (2016)
- The Air and Waste Management Association (**A&WMA**) **Outstanding Doctoral Dissertation Award (1<sup>st</sup> place)** received by Dr. Xu's Ph.D. student Yirui Liang (2015)
- **New Investigator Award** from American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE). Only one recipient was selected (2014)
- **Best Student Paper Award** received by Dr. Xu's student Yirui Liang at the 13<sup>th</sup> International Conference on Indoor Air Quality and Climate, Hong Kong, for the paper entitled "Indoor residential fate model of phthalate plasticizers." (2014)
- **Best Student Paper Award** received by Dr. Xu's student Brandon Boor at the 13<sup>th</sup> International Conference on Indoor Air Quality and Climate, Hong Kong, for the paper entitled "Crawling-induced resuspension of settled floor dust." (2014)
- **Best Paper Award** at the 108<sup>th</sup> Annual Conference of Air and Waste Management Association, Long Beach, CA, for the paper entitled "An improved method for measuring and characterizing phthalate emissions from building materials and its application to exposure assessment" with Yirui Liang (2014)
- **Outstanding Reviewer** for *Building and Environment* Journal (2014)

- National Science Foundation (**NSF CAREER Award**) (2012)
- **Yaglou Award** from the International Society of Indoor Air Quality and Climate (ISIAQ) for being the most promising young researcher (under 37) in the indoor air sciences. Dr. Xu is the fifth recipient to receive this worldwide award since the award began in 1999. (2011)
- **Chinese Government Award** for Outstanding Student Abroad (50 out of 100,000) (2009)
- **Best Poster Award** at the joint conference of International Society of Environmental Epidemiology (ISEE) and International Society of Exposure Sciences (ISES), Pasadena, CA, for the paper entitled “Characterizing emissions of di-2-ethylhexyl phthalate from vinyl flooring in a specially-designed chamber.” (2008)
- Institute for Airflow Diagnostic Education Foundation **Scholarship** (2008)
- Greenguard Environmental Institute (GEI) **Ken Dillon Fellowship** (2008)
- Air & Waste Management Association (**A&WMA Scholarship**) (2007)
- **Best Poster Award** at the international conference of Healthy Building 2006, Lisbon, Portugal, for the paper entitled “Phthalate emissions from vinyl flooring interacting with house dust.” (2006)
- Virginia Tech College of Engineering **Dean’s Fellowship** (2004 – 2007)
- **Distinguished Master’s Degree Thesis** with Honor, Tsinghua University (2004)

#### MEMBERSHIPS IN PROFESSIONAL AND HONORARY SOCIETIES:

- |   |                |
|---|----------------|
| • American Chemical Society (ACS)   | 2008 – present |
| • American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) | 2007 – present |
| • International Society for Exposure Science (ISES)                                   | 2006 – present |
| • International Society of Indoor Air Quality and Climate (ISIAQ)                     | 2006 – present |
| • Air and Waste Management Association (A&WMA)  | 2005 – present |

#### PROFESSIONAL SOCIETY AND MAJOR GOVERNMENTAL COMMITTEES:

##### Editorial:

- |  |                |
|--|----------------|
| • Editorial Board Member, Indoor Air   | 2019 – present |
| • Editorial Board Member, Journal of Exposure Science & Environmental Epidemiology | 2017 – present |
| • Editorial Board Member, PLOS ONE   | 2014 – present |

##### Journal Reviewer:

- |  |                |
|--|----------------|
| • Environmental International                        | 2016 – present |
| • Journal of Chromatography A                        | 2015 – present |
| • Environmental Science and Pollution Research       | 2015 – present |
| • Frontiers of Environmental Science and Engineering | 2014 – present |
| • PLOS ONE   | 2013 – present |
| • Chemosphere  | 2012 – present |
| • Indoor and Built Environment                       | 2012 – present |
| • Science of the Total Environment                   | 2011 – present |
| • Indoor Air   | 2010 – present |
| • Atmospheric Environment                            | 2009 – present |
| • Building and Environment                           | 2009 – present |

- Environmental Science and Technology 2008 – present

#### **Academic/Professional Committees/Groups:**

- President-elect, International Society of Indoor Air Quality and Climate (ISIAQ) (2020-present)
- Chair, ISIAQ Scientific and Technical Committee (2009 – present)
  - STC11: Sources, Monitoring and Evaluation: Chemical Pollutants  
Member from 2009, Primary member from 2011, Chair from 2014
- Primary member, Higher Education Division, Air and Waste Management Association (A&WMA) (2015 – 2018)
- Member, ASHRAE Technical Committee (2011 – present)
  - TC 2.3 Gaseous Air Contaminants and Gas Contaminant Removal Equipment Committee
  - TC 2.4 Particulate Air Contaminants and Particulate Contaminant Removal Equipment Committee
  - EHC Environmental Health Committee
  - TC 4.10 Indoor Environmental Modeling
- U.S. Environmental Protection Agency proposal review panels (2013 – 2018)
- NSF CBET Environmental Engineering Program Proposal Review Panels (2012 – 2018)
- A&WMA Student Scholarship Review Committee (2010 – 2018)

#### **Conference Committees:**

- Chair, ISIAQ STC11 Webinar: “A Modular Mechanistic Framework for Assessing Human Exposure to Chemicals in Materials, Products and Articles – Next Steps” (Jan. 2021)
- Chair, ISIAQ STC11 Webinar: “Non-Targeted Analysis Approaches in Environmental Chemistry and Exposure Science” (Feb. 2020)
- Chair, ISIAQ STC11 Webinar: “Assessing Human Exposure to Chemicals in Materials, Products and Articles: A Modular Mechanistic Framework” (Dec. 2019)
- Co-Chair: Workshop on Rapid Assessment of Exposure to SVOCs in Consumer Products: A Mechanistic Framework. Tsinghua University, Beijing, May 2019.
- Chair, ISIAQ STC11 Webinar: “Total OH reactivity measurement using comparative reactivity method (CRM): methodology and application in indoor air study” (Jun. 2019)
- Chair, ISIAQ STC11 Webinar: “New instrumentation/monitoring techniques for faster knowledge” (Feb. 2019)
- Chair, ISIAQ STC11 Webinar: “Standards and Regulations Influencing Indoor Chemical Pollutants in Europe and North America” (Nov. 2018)
- Chair, Workshop of SVOCs in Indoor Environments, Ghent, Belgium (Jul. 2016)
- Chair, Workshop of Measurements of SVOC Emission Parameters, Boulder, CO (Jul. 2015)
- Co-Chair, Workshop of Semi-Volatile Organic Compounds: Dispatches from the Front, Brisbane, Australia (Jul. 2012)
- Organizing Committee member in the 12<sup>th</sup> International Conference on Indoor Air Quality and Climate, Austin, Texas (2011)

#### **PUBLICATIONS:**

##### **A. Refereed Archival Journal Publications** (asterisks \* indicate corresponding authors)

1. Chen, Z., Wu, Q, **Xu, Y.**, Mo, J. (2022) Partitioning of airborne PAEs on indoor impermeable surfaces: A microscopic view of the sorption process. *Journal of Hazardous Materials*, 424: 127326.
2. Wu, Y., Song, Z., Little, J.C., Zhong, M., Li, H., **Xu, Y.\*** (2021) An integrated exposure and pharmacokinetic modeling framework for assessing population-scale risks of phthalates and their substitutes. *Environment International*, 156:106748.
3. Bi, C., Wang, X., Li, H, Li, X., **Xu, Y.\*** (2021). Direct Transfer of Phthalate and Alternative Plasticizers from Indoor Source Products to Dust: Laboratory Measurements and Predictive Modeling. *Environmental Science & Technology*, 55 (1): 341-345.
4. Li, H., Bi, C., Li, X., **Xu, Y.\*** (2020). A Needle Trap Device Method for Sampling and Analysis of Semivolatile Organic Compounds in Air. *Chemosphere*, 250: 126284.  
DOI: 10.1016/j.chemosphere.2020.126284.
5. Chen, J., Lan, C., An, H., Jin, Y., Li, Q., Ge, S., Yu, Y., Shen, G., Pan, B., **Xu, Y.**, Ye, R., Li, Z., Wang, B.\* (2020). Potential interference on the lipid metabolisms by serum copper in a women population: A repeated measurement study. *Science of The Total Environment*, 2020: 143375.  
DOI: 10.1016/j.scitotenv.2020.143375.
6. Lan, C., Liu, Y., Li, Q., Wang, B.\* , Xue, T., Chen, J., Jiangtulu, B., Ge, S., Ge, S., Wang, X., Gao, M., Yu, Y.\* , **Xu, Y.**, Zhao, X., Li, Z. (2020). Internal Metal(loid)s Are Potentially Involved in the Association Between Ambient Fine Particulate Matter and Blood Pressure: A Repeated-Measurement Study in North China. *Chemosphere*, 2020: 129146.  
DOI: 10.1016/j.chemosphere.2020.129146.
7. Wu, T., Fu, M., Valkonen, M., Täubel, M., **Xu, Y.**, Boor, B.\* (2020). Particle Resuspension Dynamics in the Infant Near-Floor Microenvironment. *Environmental Science & Technology*, Accepted.
8. Eichler, C., Cohen Hubal, E., **Xu, Y.**, Cao, J., Bi, C., Weschler, C., Salthammer, T., Morrison, G., Koivisto, A., Zhang, Y., Mandin, C., Wei, W., Blondeau, P., Poppendieck, D., Liu, X., Delmaar, C., Jolliet, O., Shin, H., Diamond, M., Shiraiwa, M., Zuend, A., Hopke, P., von Goetz, N., Kulmala, M., and Little, J.C.\* (2021). Assessing human exposure to chemicals in materials, products and articles: A modular mechanistic framework. *Environmental Science & Technology*, , 55 (1): 25-43.
9. Wang, L.\* , Wu, Z., Gong, M., **Xu, Y.**, Zhang, Y (2019). Non-dietary exposure to phthalates for pre-school children in kindergarten in Beijing, China. *Building and Environment*, 167: 106438.
10. Velazquez, S., Bi, C., Kline, J., Nunez, S., Corsi, R., **Xu, Y.**, Ishaq, S.\* (2019). Accumulation of di-2-ethylhexyl phthalate from polyvinyl chloride flooring into settled house dust and the effect on the bacterial community. *PeerJ*, 7: e8147.
11. Velazquez, S., Griffiths, W., Dietz, L., Horve, P., Nunez, S., Hu, J., Shen, J., Fretz, M., Bi, C., **Xu, Y.**, Van Den Wymelenberg, K.G., Hartmann, E., Ishaq, S.\* (2019). From one species to another: A review on the interaction of chemistry and microbiology in relation to cleaning in the built environment. *Indoor Air*, 29 (6): 880-894.
12. Givehchi, R., Maestre, J.P., Bi, C., Wylie, D., **Xu Y.**, Kinney, K., Siegel, J.\* (2019). Quantitative filter forensics with residential HVAC filters to assess indoor concentrations. *Indoor Air*, 29(3): 390-402.
13. Liang, Y., Bi, C., Wang, X., **Xu, Y.\*** (2019). A general mechanistic model for predicting the fate and transport of phthalates in indoor environments. *Indoor Air*, 29(1): 55-69.
14. Bi, C., Maestre, J.P., Li, H., Zhang, G., Givehchi, R., Mahdavi, A., Kinney, K.A., Siegel, J., Horner, J.D., **Xu, Y.\*** (2018). Phthalates and organophosphates in settled dust and HVAC filter dust of U.S. low-income homes: Association with season, building characteristics, and childhood asthma. *Environment International*, 121: 916-930.

15. Boor, B.E., Spilak, M.P., Laverge, J., Novoselac, A., **Xu, Y.\*** (2017). Human exposure to indoor air pollutants in sleep microenvironments: A literature review. *Building and Environment*, 125: 528-555.
16. Wang, L., Gong, M., **Xu, Y.**, Zhang, Y.\* (2017). Phthalates in dust collected from various indoor environments in Beijing, China and resulting non-dietary human exposure. *Building and Environment*, 124: 315-322.
17. Cao, J., Xiong, J., Wang, L., **Xu, Y.**, and Zhang, Y.\* (2016). A transient method for determining indoor chemical concentrations based on SPME: model development and calibration. *Environmental Science & Technology*, 50 (17): 9452-9459.
18. Wu, Y., Cox, S., **Xu, Y.**, Liang, Y., Won, D., Liu, X., Clausen P., Rosell, L., Benning, J., Zhang, Y., Little, J.\* (2016). A reference method for measuring emissions of SVOCs in small chambers. *Building and Environment*, 95: 126-132.
19. Bi, C., Liang, Y., **Xu, Y.\*** (2015). Fate and transport of phthalates in indoor environments and the influence of temperature: A case study in a test house. *Environmental Science & Technology*, 49 (16): 9674-9681.
20. Wang, X., Bi, C., **Xu, Y.\*** (2015). Modeling and analysis of sampling artifacts in measurements of gas-particle partitioning of semivolatile organic contaminants using filter-sorbent samplers. *Atmospheric Environment*, 117: 99-109.
21. Liang, Y., Caillot, O., Zhang, J., Zhu, J., **Xu, Y.\*** (2015). Large-scale chamber investigation and simulation of phthalate emissions from vinyl flooring. *Building and Environment*, 89: 141-149.
22. Boor, B. E., Liang, Y., Crain, N., Järnström, H., Novoselac, A., **Xu, Y.\*** (2015). Identification of phthalate and alternative plasticizers, flame retardants, and unreacted isocyanates in infant crib mattress covers and foam. *Environmental Science & Technology Letters*, 2 (4): 89-94.
23. Liang, Y., **Xu, Y.\*** (2015). The Influences of surface sorption and air flow rate on emission of phthalates from vinyl flooring: Measurement and modeling. *Atmospheric Environment*, 103: 147-155.
24. **Xu, Y.\***, Liang, Y., Urquidi, J., Siegel, J. (2015). Semi-volatile organic compounds in heating, ventilation, and air-conditioning filter dust in retail stores. *Indoor Air*, 25 (1): 79-92.
25. Liang, Y., **Xu, Y.\*** (2014). Emission of phthalates and phthalate alternatives from vinyl flooring and crib mattress covers: The influence of temperature. *Environmental Science & Technology*, 48 (24): 14228-14237.
26. Wang, X.\*, Tao, W., **Xu, Y.**, Feng, J., Wang, F. (2014). Indoor phthalate concentration and exposure in residential and office buildings in Xi'an, China. *Atmospheric Environment*, 87:146-152.
27. **Xu, Y.\***, Liang, Y., Urquidi, J., Siegel, J. (2014). Phthalates and polybrominated diphenyl ethers in retail stores. *Atmospheric Environment*, 87: 53-64.
28. Liang, Y., **Xu, Y.\*** (2014). Improved method for measuring and characterizing phthalate emissions from building materials and its application to exposure assessment. *Environmental Science & Technology*, 48 (8): 4475-4484.
29. Boor, B. E., Järnström, H., Novoselac, A., **Xu, Y.\*** (2014). Infant exposure to emissions of volatile organic compounds from crib mattresses. *Environmental Science & Technology*, 48 (6): 3541-3549.
30. **Xu, Y.**, Liu, Z.; Park, J., Clausen, P. A., Benning, J., Little, J. C.\* Measuring and predicting the emission rate of phthalate plasticizer from vinyl flooring in a specially-designed chamber. (2012). *Environmental Science & Technology*, 46 (22): 12534-12541.
31. **Xu, Y.\***, Zhang, J., (2011). Understanding SVOCs. *ASHRAE Journal*, 53 (12): 121-125.

32. Adams, W. A., **Xu, Y.**, Little, J. C., Fristachi, A. F., Rice, G. E., Impellitteri, C. A.\* (2011). Predicting the migration rate of dialkyl organotins from PVC pipe into water. *Environmental Science & Technology*, 45 (16): 6902-6907.
33. Clausen, P. A., Liu, Z., **Xu, Y.**, Kofoed-Sørensen, V., Little, J. C.\* (2010). Influence of air flow rate on emission of DEHP from vinyl flooring in the emission cell FLEC: Measurements and CFD simulation. *Atmospheric Environment*, 44 (23): 2760-2766.
34. **Xu, Y.**, Cohen-Hubal, E. A., Little, J. C.\* (2010). Predicting residential exposure to phthalate plasticizer emitted from vinyl flooring – sensitivity, uncertainty, and implications for biomonitoring. *Environmental Health Perspectives*, 118 (2): 253-258.
35. Fristachi, A., **Xu, Y.**, Rice, G., Rice, G., Impellitteri, C., Carlson-Lynch, H., Little, J. C.\* (2009). Using probabilistic modeling to evaluate human exposure to organotin in drinking water transported by polyvinyl chloride pipe. *Risk Analysis*, 29 (11): 1615-1628.
36. **Xu, Y.**, Cohen-Hubal, E. A., Clausen, P. A., Little, J. C.\* (2009). Predicting residential exposure to phthalate plasticizer emitted from vinyl flooring – a mechanistic analysis. *Environmental Science & Technology*, 43 (7): 2374-2380.
37. Morrison, G. C.\*, Little, J. C., **Xu, Y.**, Rao, M., Enke, D. (2007). Gas-phase exposure history derived from material-phase concentration profiles. *Atmospheric Environment*, 41 (15): 3276–3286.
38. Clausen, P. A.\*, **Xu, Y.**, Kofoed-Sørensen, V., Little, J. C., Wolkoff, P. (2007). The influence of humidity on the emission of di-(2-ethylhexyl) phthalate (DEHP) from vinyl flooring in the emission cell “FLEC”. *Atmospheric Environment*, 41 (15): 3217–3224.
39. **Xu, Y.**, Little, J. C.\* (2006). Predicting emissions of SVOCs from polymeric materials and their interaction with airborne particles. *Environmental Science & Technology*, 40 (2): 456-461.
40. **Xu, Y.**, Zhang, Y.\* (2004). A general model for analyzing single surface VOC emission characteristics from building materials and its application. *Atmospheric Environment*, 38 (1): 113-119.
41. Zhang, Y.\*, **Xu, Y.** (2003). Characteristics and correlations of VOC emissions from building materials. *International Journal of Heat and Mass Transfer*, 46 (25): 4877-4883.
42. **Xu, Y.**, Zhang, Y.\* (2003). An improved mass transfer based model for analyzing VOC emissions from building materials. *Atmospheric Environment*, 37 (18): 2497-2505.
43. **Xu, Y.**, Zhang, Y.\*, Cheng, T. (2003). A new mass transfer based model of VOC emissions from building materials. *ASHRAE Transactions*, 109 (2): KC-03-11-4.
44. Cheng, T., Jiang, Y., **Xu, Y.**, Zhang, Y.\* (2002). Mathematical model for simulation of VOC emissions and concentrations in buildings. *Atmospheric Environment*, 36 (32): 5025-5030.

## B. Refereed Conference Proceedings

1. Song, Z., Wang, L., **Xu, Y.** Infant exposure to SVOCs in sleep microenvironments. In: Proceedings of Indoor Air 2020, Seoul, Korea, Jul. 2020.
2. Li, H., Wu, Y., **Xu, Y.** A Rapid Method for Characterizing Emissions of SVOCs from Consumer Products and Its Application to Human Exposure Assessment. In: Proceedings of Indoor Air 2020, Seoul, Korea, Jul. 2020.
3. Li, H., Bi, C., **Xu, Y.** A Novel Rapid Method for Characterizing Emissions of Semivolatile Organic Compounds from Building Materials and Consumer Products. In: Proceedings of Healthy Building 2019 Asia, Changsha, China, Oct. 2019.
4. Bi, C., Maestre, J.P., Li, H., Zhang, G., Givehchi, R., Mahdavi, A., Kinney, K.A., Siegel, J., Horner, J.D., Xu, Y. Phthalates and organophosphates in settled dust and HVAC filter dust of U.S. low-

- income homes: Association with season, building characteristics, and childhood asthma. In: Proceedings of IEHB & Bioaerosol 2019. Nanjing, China, May 2019.
5. Li, H., Bi, C., Crain, N. E., Novoselac, A., Kinney, K., Corsi, R. L., **Xu, Y.** Phthalate, organophosphates, polybrominated diphenyl ethers, pesticides, and their alternatives in indoor air and dust in U.S. high school. In: Proceedings of Indoor Air 2018, Philadelphia, July 22-27, 2018.
  6. Bi, C., **Xu, Y.** Direct Transfer of Phthalates from Polyvinyl Chloride Flooring into House Dust: A Chamber Study. In: Proceedings of Indoor Air 2018, Philadelphia, July 22-27, 2018.
  7. Li, H., Bi, C., **Xu, Y.** A novel rapid method for characterizing emissions of semivolatile organic compounds from building materials and consumer products. In: Proceedings of Indoor Air 2018, Philadelphia, July 22-27, 2018.
  8. Bi, C., Boor, B., Li, H., **Xu, Y.** Screen level estimation of crawling induced exposure to particle-phase phthalates. In: Proceedings of Indoor Air 2018, Philadelphia, July 22-27, 2018.
  9. Givchchi R, Maestre JP, Bi C, Wylie D, **Xu Y**, Kinney K, Siegel J. A general mechanistic model for predicting the fate and transport of phthalates in indoor environments. In: Proceedings of Indoor Air 2018, Philadelphia, July 22-27, 2018.
  10. Bi, C., **Xu, Y.** Transfer of phthalates from PVC flooring into settled house dust. In: Proceedings of the Healthy Buildings 2017 Asia, Tainan, Taiwan, September 2-5, 2017.
  11. Li, H., Bi, C., Crain, N. E., Novoselac, A., Kinney, K., Corsi, R. L., **Xu, Y.** Semivolatile Organic Compounds (SVOCs) in Indoor Air and Dust in U.S. High Schools. In: Proceedings of the Healthy Buildings 2017 Asia, Tainan, Taiwan, September 2-5, 2017.
  12. Bi, C., Maestre, J.P., Kinney, K., Siegel, J., Horner, S., **Xu, Y.** (2016). Semi-volatile organic compounds in indoor settled and HVAC filter dust: association with seasons, childhood asthma and building characteristics. In: Proceedings of the 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, July 3-8, 2016.
  13. Li, H., Bi, C., Crain, N., Novoselac, A., Kinney, K., Corsi, R., **Xu, Y.** (2016). Phthalates, organophosphates, polybrominated diphenyl ethers, pesticides, and their alternatives in indoor air and dust in U.S. schools. In: Proceedings of the 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, July 3-8, 2016.
  14. Liang, Y., **Xu, Y.** (2016). Emission of phthalates and phthalate alternatives from vinyl flooring and crib mattress covers: the influence of temperature. In: Proceedings of the 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, July 3-8, 2016.
  15. Bi, C., **Xu, Y.** (2016). Phthalates uptake by settled dust on polyvinyl chloride flooring and the influence of temperature. In: Proceedings of the 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, July 3-8, 2016.
  16. Boor, B., Holopainen, R., Täubel, M., Viitanen, A., Koivisto, J., Vainiotalo, S., Salmi, K., Tuomi, T., Hyvärinen, A., Hämeri, K., Novoselac, A., **Xu, Y.** (2016). Infant crawling-induced particle resuspension: size-resolved resuspension rates derived from a three-zone model. In: Proceedings of the 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, July 3-8, 2016.
  17. Crain, N., Novoselac, A., Kinney, K., **Xu, Y.**, Horner, S., and Corsi, R.L. Oxygenated Volatile Organic Compounds (OVOCs) in High Schools. In: Proceedings of the 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, July 3-8, 2016.
  18. Bi, C., **Xu, Y.** (2015). The influence of temperature on the fate and transport of indoor phthalates: a case study in a test house. In: Proceedings of Healthy Buildings 2015, Boulder, Colorado, July 19-22, 2015.

19. Liang, Y., **Xu, Y.** (2015). Emission of phthalates and phthalate alternatives from vinyl flooring and crib mattress covers: the influence of temperature. In: Proceedings of Healthy Buildings 2015, Boulder, Colorado, July 19-22, 2015.
20. Maestre, J.P., Dedesko, S., Royse, K., **Xu, Y.**, Horner, S., Siegel, J., Kinney, K. (2015). Pollutant Exposures and asthma, what can HVAC filter dust tell us? In: Proceedings of Healthy Buildings 2015, Boulder, Colorado, July 19-22, 2015.
21. Bi, C., **Xu, Y.** (2015). The influence of temperature on the fate and transport of phthalates in indoor environments: a case study. In: Proceedings of A&WMA 108<sup>th</sup> Annual Conference & Exhibition, Raleigh, North Carolina, June 22-25, 2015.
22. Liang, Y., **Xu, Y.** (2015). Emission of phthalates and phthalate alternatives from vinyl flooring and crib mattress covers: the influence of temperature. In: Proceedings of A&WMA 108<sup>th</sup> Annual Conference & Exhibition, Raleigh, North Carolina, June 22-25, 2015.
23. Boor, B.E., Holopainen, R., Viitanen, A., Koivisto, J., Täubel, M., Vainiotalo, S., Salmi, K., Tuomi, T., Hyvärinen, A., Hämeri, K., Novoselac, A., **Xu, Y.** (2015). Infant exposure to resuspended particles from carpeted flooring: experimental chamber study with a simplified mechanical crawling infant. Sisäilmastoseminaari 2015 Conference, Finland, March 11, 2015.
24. **Xu, Y.**, Liang, Y., Urquidi, J., Siegel, J. (2014). Phthalates and PBDEs in retail stores. In: Proceedings of the 13<sup>th</sup> International Conference on Indoor Air Quality and Climate, Hong Kong, July 7-12, 2014.
25. Liang Y., **Xu, Y.** (2014). An improved method for measuring and characterizing phthalate emissions from building materials and its application to exposure assessment. In: Proceedings of the 13<sup>th</sup> International Conference on Indoor Air Quality and Climate, Hong Kong, July 7-12, 2014.
26. Boor, B. E., Liang Y., Crain, N., Järnström, H., Novoselac, A., **Xu, Y.** (2014). New and Used Crib Mattresses as a Source of Volatile Organic Compounds, Phthalate and Alternative Plasticizers, and Other Chemical Species in the Infant Sleep Microenvironment. In: Proceedings the 13<sup>th</sup> International Conference on Indoor Air Quality and Climate, Hong Kong, July 7-12, 2014.
27. Bi, C., **Xu, Y.** (2014). The influence of temperature, ventilation and humidity on the fate and transport of indoor phthalates. In: Proceedings of the 13<sup>th</sup> International Conference on Indoor Air Quality and Climate, Hong Kong, July 7-12, 2014.
28. Boor, B. E., Koivisto, J., Hämeri, K., Novoselac, A., **Xu, Y.** (2014). Infant crawling-induced resuspension of settled floor dust. In: Proceedings of the 13<sup>th</sup> International Conference on Indoor Air Quality and Climate, Hong Kong, July 7-12, 2014.
29. Liang Y., **Xu, Y.** (2014). An improved method for measuring and characterizing phthalate emissions from building materials and its application to exposure assessment. In: Proceedings of AWMA's 107<sup>th</sup> Annual Conference & Exhibition, Long Beach, California, June 24-27, 2014.
30. Bi, C., **Xu, Y.** (2014). The influence of temperature, ventilation and humidity on the fate and transport of indoor phthalates. In: Proceedings of AWMA's 107<sup>th</sup> Annual Conference & Exhibition, Long Beach, California, June 24-27, 2014.
31. **Xu, Y.**, Urquidi, J., Liang, Y., Siegel, J. (2013). Phthalates and polybrominated diphenyl ethers in retail stores. In: ASHRAE IAQ 2013 Proceedings: Environmental Health in Low Energy Buildings, Vancouver, Canada. October 15-18, 2013.
32. **Xu, Y.**, Liang, Y. (2012). Emissions of phthalate plasticizers from vinyl flooring: the impact of temperature, ventilation and surface sorption. In: Proceedings of Healthy Buildings 2012, Brisbane, Australia, July 8-12, 2012.
33. **Xu, Y.**, Liang, Y. (2012). Indoor residential fate model of phthalate plasticizers. In: Proceedings of Healthy Buildings 2012, Brisbane, Australia, July 8-12, 2012.

34. **Xu, Y.**, Urquidi, J., Liang, Y., Siegel, J. (2012). Phthalates and polybrominated diphenyl ethers in retail stores. In: Proceedings of Healthy Buildings 2012, Brisbane, Australia, July 8-12, 2012.
35. Boor, B., Järnström, H., **Xu, Y.**, Novoselac, A. (2012). Identification of VOCs, phthalates, and isocyanates in crib mattresses. In: Proceedings of Healthy Buildings 2012, Brisbane, Australia, July 8-12, 2012.
36. Wang, X., **Xu, Y.**, Liu, G. (2011). A study of phthalate concentration distribution in indoor environment. In: Proceedings of the 12<sup>th</sup> International Conference on Indoor Air Quality and Climate, Austin, Texas, June 5-10, 2011.
37. Liang, Y., **Xu, Y.** (2011). Indoor residential fate model of phthalate plasticizers. In: Proceedings of the 12<sup>th</sup> International Conference on Indoor Air Quality and Climate, Austin, Texas, June 5-10, 2011.
38. **Xu, Y.**, Park, J., Clausen, P. A., Kofoed-Sørensen, V., Little, J. C. (2009). Characterizing emissions of phthalate plasticizer from vinyl flooring in a specially-designed SVOC emission chamber. In: Proceedings of Healthy Buildings 2009, Syracuse, New York, September 13-17, 2009.
39. **Xu, Y.**, Park, J., Clausen, P. A., Kofoed-Sørensen, V., Little, J. C. (2008). Characterizing emissions of phthalate plasticizer from vinyl flooring in a specially-designed chamber. The 18<sup>th</sup> Annual Conference of International Society of Exposure Science, Pasadena, California, October 12-16, 2008.
40. **Xu, Y.**, Cohen-Hubal, E., Clausen, P. A., Little, J. C. (2008). Exposure to phthalate emitted from vinyl flooring and sorbed to interior surfaces, dust, airborne particles and human skin. In: Proceedings of the 11<sup>th</sup> International Conference on Indoor Air Quality and Climate, Copenhagen, Denmark, August 17-22, 2008.
41. **Xu, Y.**, Park, J., Clausen, P. A., Kofoed-Sørensen, V., Little, J. C. (2008). Characterizing emissions of phthalate plasticizer from vinyl flooring in a specially-designed chamber. In: Proceedings of the 11<sup>th</sup> International Conference on Indoor Air Quality and Climate, Copenhagen, Denmark, August 17-22, 2008.
42. **Xu, Y.**, Cohen-Hubal, E., Clausen, P. A., Little, J. C. (2007). Emission of phthalate from vinyl flooring and sorption to interior surfaces, dust and airborne particles. The 17<sup>th</sup> Annual Conference of International Society of Exposure Science, Durham, North Carolina, October 14-18, 2007.
43. **Xu, Y.**, Little, J. C. (2006). Emission of DEHP from vinyl flooring and interaction with interior surfaces. A&WMA Conference Indoor Environmental Quality: Problems, Research and Solutions, Durham, North Carolina, July 17-19, 2006.
44. **Xu, Y.**, Clausen, P. A., Little, J. C. (2006). Phthalate emissions from vinyl flooring interacting with house dust. In: Proceedings of Healthy Buildings 2006, Lisboa, Portugal, June 4-8, 2006.
45. **Xu, Y.**, Cohen Hubal, E., Clausen, P. A., Little, J. C. (2006). Emission of phthalates and interaction with interior surfaces. The 16<sup>th</sup> Annual Conference of International Society of Exposure Science, Paris, France, September 2-6, 2006.
46. **Xu, Y.**, Little, J. C. (2005). Modeling emissions of SVOCs from vinyl flooring. In: Proceedings of the 10<sup>th</sup> International Conference on Indoor Air Quality and Climate, Beijing, China, September 4-9, 2005.
47. **Xu, Y.**, Zhang, Y. (2003). A new model for analyzing the influence of initial concentration in building materials on VOC emission characteristics. In: Proceedings of Healthy Buildings 2003, Singapore, December 7-11, 2003.
48. **Xu, Y.**, Zhang, Y., Cheng, T. (2003). A new mass transfer based model of VOC emissions from building materials. In: Proceedings of ASHRAE annual meeting, Kansas City, Missouri, June 28- July 2, 2003.

49. Wang, X., Zhang, Y., **Xu, Y.** (2003). Modeling of double surface VOC emissions from flat-plate building materials under asymmetric convective conditions. In: Proceedings of the 4<sup>th</sup> International Symposium on Heating, Ventilation and Air Conditioning, Beijing, China, October 9-11, 2003.
50. Zhang, Y., Yang, R., **Xu, Y.**, Zhao, R. (2002). A model of photocatalytic air cleaner for analyzing the performance of removing VOCs in indoor air and its applications. In: Proceedings of ROOMVENT 2002, Copenhagen, Denmark, September 8-11, 2002.
51. Cheng, T., **Xu, Y.**, Jiang, Y., Zhang, Y. (2002). A universal model of volatile organic compounds in room. In: Proceedings of the 9<sup>th</sup> International Conference on Indoor Air Quality and Climate, Monterey, California, June 30- July 5, 2002.

### C. Other Major Publications

1. Tang, M., Zhan, J., **Xu, Y.**, Dang, R. (2020). Discussion on the Construction of a Dynamic Risk Management System for the Museum's Collection. *Museum Management*, 2020 (2): 36-44.
2. **Xu, Y.** More Regulation, Public Awareness Needed to End Toxic Chemicals in Crib Mattresses. *Texas Perspectives*. May 27, 2014. <http://www.utexas.edu/know/2014/05/27/more-regulation-public-awareness-needed-to-end-toxic-chemicals-in-crib-mattresses/>

### ORAL PRESENTATIONS:

#### A. Presentations at Conferences and Professional Meetings

1. **Xu, Y.**, Characterizing emissions of SVOCs from consumer products and its application to risk assessment. Beijing Forum 2021: Environment and Health, Beijing, China, Dec. 2021.
2. **Xu, Y.**, SVOCs in Indoor Environment: Toward high throughput exposure and risk assessment. The 5<sup>th</sup> international Symposium for Persistent, Bioaccumulating and Toxic Substances, Beijing, China, Jul. 2021.
3. **Xu, Y.**, A Modular Mechanistic Framework for Assessing Human Exposure to Chemicals in Materials, Products and Articles: Knowledge gaps and how to treat them. Indoor Air 2020, Seoul, Korea, Jul., 2020.
4. Li, H., **Xu, Y.** A Needle Trap Device Method for Sampling and Analysis of Semi-volatile Organic Compounds in Air. ExTech 2019, Guangzhou, China, Nov. 2019.
5. **Xu, Y.** A Fundamental Model to Predict SVOC Emissions and Transport in Indoor Environments. ISES-ISIAQ 2019, Kaunas, Lithuania, Aug. 2019.
6. **Xu, Y.** Emission and Transport of SVOCs in Indoor Environments. 2019 Researcher Links Workshop on Investigation of the Impact of Occupant Behavior on Building Performance in the UK and China. Coventry, UK, Jun. 2019.
7. Li, H., Bi, C., **Xu, Y.** A Novel Rapid Method for Characterizing Emissions of Semivolatile Organic Compounds from Building Materials and Consumer Products. Healthy Building 2019 Asia, Changsha, China, Oct. 2019.
8. Bi, C., Maestre, J.P., Li, H., Zhang, G., Givehchi, R., Mahdavi, A., Kinney, K.A., Siegel, J., Horner, J.D., **Xu, Y.** Phthalates and organophosphates in settled dust and HVAC filter dust of U.S. low-income homes: Association with season, building characteristics, and childhood asthma. IEHB & Bioaerosol 2019. Nanjing, China, May 2019.
9. Li, H., **Xu, Y.** A novel rapid method for characterizing emissions of semivolatile organic compounds from building materials and consumer products. Indoor Air 2018, Philadelphia, July 22-27, 2018

10. **Xu, Y.** Improved Methods for Measuring and Characterizing Phthalate Emissions from Building Materials. ASTM 2017, New Orleans, Oct 12, 2017.
11. Bi, C., **Xu, Y.** Transfer of phthalates from PVC flooring into settled house dust. Healthy Buildings 2017 Asia, Tainan, Taiwan, September 2-5, 2017.
12. Li, H., Bi, C., Crain, N. E., Novoselac, A., Kinney, K., Corsi, R. L., **Xu, Y.** Semivolatile Organic Compounds (SVOCs) in Indoor Air and Dust in U.S. High Schools. Healthy Buildings 2017 Asia, Tainan, Taiwan, September 2-5, 2017.
13. Bi, C., Maestre, J.P., Kinney, K., Siegel, J., Horner, S., **Xu, Y.** Semi-volatile organic compounds in indoor settled and HVAC filter dust: association with seasons, childhood asthma and building characteristics. The 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, July 3-8, 2016.
14. Li, H., Bi, C., Crain, N., Novoselac, A., Kinney, K., Corsi, R., **Xu, Y.** Phthalates, organophosphates, polybrominated diphenyl ethers, pesticides, and their alternatives in indoor air and dust in U.S. schools. The 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, July 3-8, 2016.
15. Bi, C., **Xu, Y.** Fate and Transport of Phthalates in Indoor Environments and the Influence of Temperature: A Case Study. The 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, July 3-8, 2016.
16. Bi, C., **Xu, Y.** Phthalates uptake by settled dust on polyvinyl chloride flooring. The 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, July 3-8, 2016.
17. **Xu, Y.** Emission and Transport of Phthalates in Indoor Environments. 2016 ASHRAE Winter Conference, Orlando, FL, January 23-27, 2016.
18. Bi, C., **Xu, Y.** The influence of temperature on the fate and transport of indoor phthalates: a case study in a test house. Healthy Buildings 2015 America, Boulder, Colorado, July 21, 2015.
19. Liang, Y., **Xu, Y.** Emission of phthalates and phthalate alternatives from vinyl flooring and crib mattress covers: the influence of temperature. Healthy Buildings 2015 America, Boulder, Colorado, July 20, 2015.
20. Maestre, J.P., Dedesko, S., Royse, K., **Xu, Y.**, Horner, S., Siegel, J., Kinney, K. Pollutant Exposures and asthma, what can HVAC filter dust tell us? Healthy Buildings 2015 America, Boulder, Colorado, July 20, 2015.
21. Liang, Y., **Xu, Y.** Emission of phthalates and phthalate alternatives from vinyl flooring and crib mattress covers: the influence of temperature. The 108<sup>th</sup> A&WMA Annual Conference, Raleigh, North Carolina, June 24, 2015.
22. Bi, C., **Xu, Y.** The influence of temperature on the fate and transport of phthalates in indoor environments: a case study. The 108<sup>th</sup> A&WMA Annual Conference, Raleigh, North Carolina, June 24, 2015.
23. Liang Y., **Xu, Y.** An improved method for measuring and characterizing phthalate emissions from building materials and its application to exposure assessment. The 13<sup>th</sup> International Conference on Indoor Air Quality and Climate, Hong Kong, July 8, 2014.
24. Boor, B. E., Liang Y., Crain, N., Järnström, H., Novoselac, A., **Xu, Y.** New and Used Crib Mattresses as a Source of Volatile Organic Compounds, Phthalate and Alternative Plasticizers, and Other Chemical Species in the Infant Sleep Microenvironment. The 13<sup>th</sup> International Conference on Indoor Air Quality and Climate, Hong Kong, July 12, 2014.
25. Boor, B. E., Koivisto, J., Hämeri, K., Novoselac, A., **Xu, Y.** Infant crawling-induced resuspension of settled floor dust. The 13<sup>th</sup> International Conference on Indoor Air Quality and Climate, Hong Kong, July 11, 2014.

26. **Xu, Y.**, Liang, Y., Urquidi, J., Siegel, J. Phthalates and polybrominated diphenyl ethers in retail stores. The 13<sup>th</sup> International Conference on Indoor Air Quality and Climate, Hong Kong, July 9, 2014.
27. Liang Y., **Xu, Y.** An improved method for measuring and characterizing phthalate emissions from building materials and its application to exposure assessment. The 107<sup>th</sup> AWMA Annual Conference & Exhibition, Long Beach, California, June 25, 2014.
28. Bi, C., **Xu, Y.** The influence of temperature, ventilation and humidity on the fate and transport of indoor phthalates. The 107<sup>th</sup> AWMA Annual Conference & Exhibition, Long Beach, California, June 26, 2014.
29. **Xu, Y.**, Urquidi, J., Liang, Y., Siegel, J. Phthalates and polybrominated diphenyl ethers in retail stores. ASHRAE IAQ 2013: Environmental Health in Low Energy Buildings, Vancouver, Canada. October 17, 2013.
30. Boor, B., Järnström, H., **Xu, Y.**, Novoselac, A. Infant sleeping microenvironment: Infant thermal plume and inhalation exposure to volatile organic compounds originating in a crib mattress. The 22<sup>nd</sup> Annual Meeting of International Society of Exposure Science, Seattle, Washington, November 1, 2012.
31. **Xu, Y.**, Liang, Y. Emissions of phthalate plasticizers from vinyl flooring: the impact of temperature, ventilation and surface sorption. Healthy Buildings 2012, Brisbane, Australia, July 10, 2012.
32. Boor, B., Järnström, H., **Xu, Y.**, Novoselac, A., Identification of VOCs, phthalates, and isocyanates in crib mattresses. Healthy Buildings 2012, Brisbane, Australia, July 11, 2012.
33. **Xu, Y.**, Liang, Y. Indoor residential fate model of phthalate plasticizers. Healthy Buildings 2012, Brisbane, Australia, July 11, 2012.
34. **Xu, Y.**, Urquidi, J., Liang, Y., Siegel, J. Phthalates and polybrominated diphenyl ethers in retail stores. Healthy Buildings 2012, Brisbane, Australia, July 10, 2012.
35. **Xu, Y.**, Liang, Y. Exposure to phthalate plasticizers in residential environment. The 21<sup>st</sup> Annual Conference of International Society of Exposure Science, Baltimore, Maryland, October 23, 2011.
36. Wang, X., **Xu, Y.**, Liu, G. A study of phthalate concentration distribution in indoor environment. The 12<sup>th</sup> International Conference on Indoor Air Quality and Climate, Austin, Texas, June 7, 2011.
37. Liang, Y., **Xu, Y.** Indoor residential fate model of phthalate plasticizers. The 12<sup>th</sup> International Conference on Indoor Air Quality and Climate, Austin, Texas, June 10, 2011.
38. **Xu, Y.**, Park, J., Clausen, P. A., Kofoed-Sørensen, V., Little, J. C. Characterizing emissions of phthalate plasticizer from vinyl flooring in a specially-designed SVOC emission chamber. Healthy Buildings 2009, Syracuse New York, September 14, 2009.
39. **Xu, Y.**, Park, J., Clausen, P. A., Kofoed-Sørensen, V., Little, J. C. Characterizing emissions of phthalate plasticizer from vinyl flooring in a specially-designed chamber. The 11<sup>th</sup> International Conference on Indoor Air Quality and Climate, Copenhagen, Denmark, August 22, 2008.
40. **Xu, Y.**, Cohen-Hubal, E., Clausen, P. A., Little, J. C. Exposure to phthalate emitted from vinyl flooring and sorbed to interior surfaces, dust, airborne particles and human skin. The 11<sup>th</sup> International Conference on Indoor Air Quality and Climate, Copenhagen, Denmark, August 22, 2008.
41. **Xu, Y.**, Cohen-Hubal, E., Clausen, P. A., Little, J. C. Emission of phthalate from vinyl flooring and sorption to interior surfaces, dust and airborne particles. The 17<sup>th</sup> Annual Conference of International Society of Exposure Science, Durham, North Carolina, Oct 18, 2007.

42. **Xu, Y.**, Little, J. C. Emission of DEHP from vinyl flooring and interaction with interior surfaces. A&WMA Conference Indoor Environmental Quality: Problems, Research and Solutions, Durham, North Carolina, July 17, 2006.
43. **Xu, Y.**, Little, J. C. Modeling emissions of SVOCs from vinyl flooring. The 10<sup>th</sup> International Conference on Indoor Air Quality and Climate, Beijing, China, September 6, 2005.

#### B. Invited Presentations

1. Xu, Y., SVOCs in Indoor Environment: Toward high throughput exposure and risk assessment. The 5th international Symposium for Persistent, Bioaccumulating and Toxic Substances, Beijing, China, Jul. 2021.
2. Xu, Y. Phthalates and organophosphates in settled dust and HVAC filter dust of U.S. low-income homes: Association with season, building characteristics, and childhood asthma. IEHB & Bioaerosol 2019. Nanjing, China, May 2019.
3. Xu, Y. Improved Methods for Measuring and Characterizing Phthalate Emissions from Building Materials. ASTM 2017, New Orleans, Oct 12, 2017.
4. Xu, Y. **Keynote** Speech: Emission and Transport of SVOCs in Indoor Environments. Healthy Buildings 2017 Asia, Tainan, Taiwan, September 2-5, 2017.
5. Xu, Y. Emission and Transport of SVOCs in Indoor Environments. Tsinghua University, Beijing, China, September 2017.
6. Xu, Y. Emission and Transport of SVOCs in Indoor Environments. University of Science and Technology Beijing, Beijing, China, May 2017.
7. Xu, Y. Has your home become a toxin factory? Emission and human exposures to semi-volatile organic compounds (SVOCs) in built environment. U.S. Green Building Council, Central Texas-Balcones Chapter, May 8, 2014.
8. Xu, Y. Human Exposures to semi-volatile organic compounds in indoor environment. School of Environment, Tsinghua University, Beijing, China, August 7, 2014.
9. Xu, Y. Emissions, fate and transport, and human exposures to semi-volatile endocrine disrupting compounds in indoor environments. College of Pharmacy, Division of Pharmacology and Toxicology, The University of Texas at Austin, November 14, 2013.
10. Xu, Y. Fate and transport of phthalate in indoor environments. Department of Building Environment and Services Engineering, Xi'an Jiaotong University, Shanxi, China, June 11, 2010.
11. Xu, Y. Phthalate emissions from vinyl flooring interacting with house dust. Department of Building Science, Tsinghua University, Beijing, China, May 27, 2010.
12. Xu, Y. Emissions of phthalates from polymeric building materials, Texas A&M University, Kingsville, Texas, November 5, 2009.
13. Xu, Y. Emissions of phthalates from polymeric building materials, Environmental and Water Resources Engineering Seminar, The University of Texas at Austin, November 12, 2009.
14. Xu, Y. Emissions of phthalates from polymeric building materials, Center for Women's and Gender Studies, The University of Texas at Austin, December 2, 2009.
15. Xu, Y. Emissions and exposures to semi-volatile organic compounds, Tsinghua University, Beijing, China December 5, 2008.
16. Xu, Y. Predicting emissions of SVOCs from polymeric materials and their interaction with fine particles, National Research Centre for the Working Environment, Denmark, May 23, 2006.

#### OTHER PROFESSIONAL HIGHLIGHTS:

1. Interviewed by Naomi Lubick for ***Environmental Health Perspective (EHP)*** in Feb 2010. Dr. Xu's paper was honorably selected in the "Science Selections" by *EHP*. Ms. Lubick wrote an article "Running phthalates to ground: pinpointing exposure sources in a virtual home" introducing Dr. Xu's new findings. With an impact factor of 7.02, *EHP* is the top monthly journal in public, environmental, and occupational health. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2831944/pdf/ehp-118-a80a.pdf>
2. Interviewed by Janet Pelley of ***Chemical & Engineering News (C&EN)*** in Feb 2014. An article, entitled "Crib Mattresses Expose Infants to Elevated Levels of Volatile Organic Compounds", was written to introduce Dr. Xu's new paper published in *Environmental Science & Technology*. With an impact factor of 5.48, *Environmental Science & Technology* is the top monthly journal in environmental science and engineering field. <http://cen.acs.org/articles/92/web/2014/02/Crib-Mattresses-Expose-Infants-Elevated.html>
3. Dr. Xu's research on harmful chemicals in crib mattresses was highlighted by National Science Foundation on **NSF website homepage** and reported in **NSF discoveries** as a special science news program. [http://www.nsf.gov/discoveries/disc\\_summ.jsp?cntn\\_id=131066](http://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=131066)
4. Interviewed by Sandra Temko of **Good Morning America**, regarding infant exposures in sleep microenvironment.
5. Interviewed by Ruth Logan of **American Baby Magazine**, regarding Toxic Chemicals Found in Crib Mattresses.
6. Dr. Xu's research was highlighted by international, national, and local media, selected examples:
  - o **Fox News** (<http://www.foxnews.com/health/2014/04/02/crib-mattresses-release-potentially-harmful-chemicals-study-finds/>)
  - o **UK Daily Mail** (<http://www.dailymail.co.uk/sciencetech/article-2595499/Is-babys-mattress-POISONING-sleep-Scientists-warn-foam-padding-release-toxic-chemicals.html>)
  - o **Houston Chronicle** (<http://www.houstonchronicle.com/news/nation-world/nation/article/Crib-mattresses-emit-chemicals-UT-study-finds-5381122.php>)
  - o **Austin American-Statesman** (<http://www.mystatesman.com/news/news/opinion/xu-is-your-crib-mattress-harming-your-infants-heal/nf5jB/>)
  - o **UT Austin website homepage** (<http://www.mystatesman.com/news/news/opinion/xu-is-your-crib-mattress-harming-your-infants-heal/nf5jB/>) and **The Daily Texan** (<http://www.dailytexanonline.com/person/ying-xu>)
7. Dr. Xu wrote an opinion column (op-ed) for **Texas Perspectives** entitled "More Regulation, Public Awareness Needed to End Toxic Chemicals in Crib Mattresses". *Texas Perspectives* is produced by The University of Texas at Austin, and the authors mostly are senior faculty members. (<http://www.utexas.edu/know/2014/05/27/more-regulation-public-awareness-needed-to-end-toxic-chemicals-in-crib-mattresses/>).
8. Dr. Xu's research was selected as the topic of a press release by **American Chemical Society (ACS)**: <http://www.acs.org/content/acs/en/pressroom/presspacs/2014/acs-presspac-december-17-2014/Heat-boosts-phthalate-emissions-from-vinyl-crib-mattress-covers.html>
9. Dr. Xu was interviewed by MedicalResearch.com: [http://medicalresearch.com/pediatrics/crib\\_mattresses\\_may\\_emit\\_phthalates/9910/](http://medicalresearch.com/pediatrics/crib_mattresses_may_emit_phthalates/9910/)
10. Dr. Xu's paper was selected as **American Chemical Society Editors' Choice Article** in March 2015. <http://pubs.acs.org.ezproxy.lib.utexas.edu/doi/abs/10.1021/acs.estlett.5b00039>

**GRANTS AND CONTRACTS:**

<b>Investigators</b>	<b>Title</b>	<b>Agency</b>	<b>Grant Total</b>	<b>Xu's Share</b>	<b>Grant Period</b>
<b>PI</b>	Semivolatile organic compounds from indoor paints: emission and transport	NSFC	\$120,000	\$120,000	01/2021-12/2024
<b>PI</b>	Research on Deterioration Mechanism and Key Protection Technology of Fragile Iron Cultural Relics in Collection	Ministry of Science and Technology of China	\$100,000	\$100,000	10/2020-09/2023
<b>PI</b>	China 1000Plan Outstanding Scholar Award	Organization Department of China	\$430,000	\$430,000	08/2018-present
<b>PI</b>	Occupational Exposure to SVOCs from Indoor Green Paints	NIEH	\$20,000	\$20,000	08/2017-07/2018
<b>PI</b> with Novoselac, A. and Corsi, R.	Organophosphates and Phthalates in Sleep Microenvironments: Emission, Transport, and Infants' Exposure	NSF	\$350,834	\$200,834	09/2015 – 08/2018
<b>PI</b>	Evaluate the Effectiveness of HVAC Systems in Reducing Indoor SVOCs	ASHRAE	\$150,000	\$150,000	09/2014 – 08/2017
<b>PI</b>	CAREER: Emission and Transport of PBDEs in Indoor Environments	NSF	\$409,149	\$409,149	06/2012 – 05/2017
<b>Co-PI</b> with Kinney, K., Corsi, R., and Novoselac, A.	Effect of Ventilation on the Microbiome and Air Quality inside Portable Classrooms	Sloan Foundation	\$156,181	\$50,000	09/2014 – 02/2016
<b>Co-PI</b> with Hildebrandt Ruiz, L.	Sources of Organic Particulate Matter in Houston: Evidence from DISCOVER-AQ data Modeling and Experiments	TCEQ	\$300,000	\$100,000	07/2014 – 06/2015
<b>Co-PI</b> with Little, J.	Collaborative Research–Phthalate Plasticizers: Temperature Dependence of Material/Air Equilibria and Consequences for Emissions, Exposure and Risk	NSF	\$422,364	\$150,000	05/2011 – 04/2014
<b>Co-Investigator</b> PI: Kinney, K.	Filter Forensics: A novel method for exploring asthma triggers for children in low-income rural homes	HUD	\$680,000	\$100,000	11/2013 – 10/2015

<b>Co-Investigator</b> PI: Siegel, J.	Ventilation and Indoor Air Quality in Retail Stores <sup>1</sup>	ASHRAE and NIST	\$1,408,300	\$100,000	09/2010 – 12/2012
<b>Co-Investigator</b> PI: Corsi, R.	IGERT Indoor Environmental Science and Engineering <sup>2</sup>	NSF	\$2,868,500	\$90,000	07/2006 – 06/2011
		<b>TOTAL</b>	<b>\$7,415,000</b>	<b>\$2,020,000</b>	

<sup>1</sup> Dr. Xu is one of eight investigators on the awarded project on Ventilation and Indoor Air Quality in Retail Stores. The University of Texas researchers are: Jeffrey Siegel (PI), Richard Corsi, Kerry Kinney, Atila Novoselac, Ying Xu, and Neil Crain. The Pennsylvania State University (PSU) researchers are: Jelena Srebric (Co-PI at PSU) and Stephen Treado.

<sup>2</sup> Dr. Xu is an active faculty participant and executive committee member of the NSF IGERT - Indoor Environmental Science and Engineering program. One of her graduate students has been funded from this grant. The University of Texas faculty participants are: Richard Corsi (PI), Jeffrey Siegel (Co-PI), Kerry Kinney (Co-PI), Atila Novoselac, Ying Xu, Ofodike Ezekoye, Sam Gosling, John Richburg, Hillary Hart, and Robert Paterson.

#### **Ph.D. SUPERVISIONS COMPLETED:**

- Liang, Yirui. December 2014  
Dissertation: Novel methods for characterizing phthalate emissions and their fate and transport in indoor environments.  
Current Position: California Air Resources Board.
- Boor, Brandon (co-advised with Atila Novoselac). July 2015  
Dissertation: Studies on particle resuspension, infant exposure, and the sleep microenvironment.  
Current Position: Assistant Professor, Purdue University.
- Bi, Chenyang. August 2018  
Dissertation: Sorption of semi-volatile organic compounds to dust and other surfaces in indoor environments.  
Current Position: Postdoc, Virginia Tech.
- Li, Hongwan. Dec 2019.  
Dissertation: Rapid characterization of emission parameters of semi-volatile organic compounds for building materials and consumer products  
Current Position: ORISE Fellow Research Scientist, U.S. Environmental Protection Agency

#### **M.S. SUPERVISIONS COMPLETED:**

- Zhang, Yan. Jun. 2016 (Co-advised with Atila Novoselac)
- Muirhead, Loren. Dec 2015 (Co-advised with Atila Novoselac)  
Thesis: Single-zone HVAC systems in k-12 schools : a literature review.
- Bi, Chenyang. May 2014  
Thesis: The influence of temperature on the fate and transport of phthalates in indoor environments.
- Urquidi, Jorge. December 2012

Thesis: Phthalates and polybrominated diphenyl ethers in retail Stores.

- Koh, Jae-hong May 2012 (Co-advised with Atila Novoselac)  
Thesis: Validation of local pressure coefficients for walls of low-rise building with varying wind direction.
- Liang, Yirui. December 2010  
Thesis: Indoor residential fate model of phthalate plasticizers.
- Kerbacher, Mariel. December 2010 (Co-advised with Atila Novoselac)  
Thesis: Effect of thermal mass on energy consumption in commercial buildings.

#### **Ph.D. IN PROGRESS:**

##### **A. Students admitted to candidacy**

Tang, Mengjia (co-advised with Atila Novoselac)

##### **B. Post M.S. students preparing to take Ph.D. qualifying exam**

- Wu, Yili  
Dissertation: Characterization of the sorption process of indoor SVOCs.
- Song, Zidong  
Dissertation: Dermal exposure to endocrine disrupting compounds.
- Ren, Xiaopeng  
Dissertation: Association between environmental pollutants and corrosion of fragile iron cultural relics in museums.
- Fan, Yujie  
Dissertation: SVOCs from indoor green paints: emission, fate, and transport.

#### **M.S. IN PROGRESS:**

- Meng, Shi  
Thesis: Application of high-resolution gas chromatography mass spectrometry method in determination of indoor pollutants.

#### **POSTDOCTORAL FELLOWS SUPERVISION:**

- Wang, Xinke. September 2014 – August 2015  
Research Topic: Interaction of semi-volatile organic pollutants with airborne particles.
- Zhang, Ge. February 2017 – February 2018  
Research Topic: Semi-volatile organic pollutants in low-income homes.

#### **VITA:**

Dr. Ying Xu is a tenured Associate Professor in the Department of Building Science at Tsinghua University, China. Prior to her position at Tsinghua University, Dr. Xu was a tenured Associate Professor at the University of Texas at Austin. Dr. Xu received her Ph.D. degree from Virginia Tech in 2009 and M.Sc. and B.Sc. degrees from Tsinghua University in China in 2001 and 2004, respectively. Her research is focused on understanding the relationships among sources, indoor environments, and human health for indoor pollutants, especially semi-volatile organic compounds (SVOCs). She has served as principal investigator

and co-principal investigator on research projects funded by the U.S. NSF, EPA, ASHRAE, NIOSH, HUD and Chinese ODC, ranging from emissions of SVOCs (e.g. plasticizers, flame retardants, and biocides) from building materials and consumer products, interactions of SVOCs with indoor aerosols, and the transport and human exposures associated with emerging contaminants in indoor environments. Dr. Xu and her research team have published over 90 papers in top journals of environmental engineering and in conference proceedings. Two of her journal publications were selected for special honors, one as the Editors' Choice Article by the American Chemical Society (ACS) and the other in the "Science Selections" by the journal *Environmental Health Perspectives*. Dr. Xu's research on infant exposures to pollutants released from crib mattresses was highlighted by the media, including the *Daily Mail*, *Fox News*, the *NSF homepage*, and *Austin American-Statesman*. Her research results were also reported in *NSF Discoveries* as a special science news program. Dr. Xu is the recipient of numerous awards and honors, including the Yaglou Award (2011) from the International Society of Indoor Air Quality and Climate (ISIAQ) for being the most promising young (under age of 37) researcher in the field of indoor air sciences, National Science Foundation's CAREER Award (2012), New Investigator Award from the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) (2014), the Air and Waste Management Association (A&WMA) Outstanding Doctoral Dissertation Award (2015), Virginia Tech Outstanding Young Alumni Award (2016), Chinese Government Award for Outstanding Scholar Abroad (2009), and Best Paper Awards from ISIAQ (2014), A&WMA (2014), the International Society of Exposure Science (2008) and in Healthy Buildings 2006. Recently, Dr. Xu was elected as the President-elect of ISIAQ and she is the first president from China in history. In addition, Dr. Xu has been serving as the Chair of ISIAQ scientific and technical committee 11: Sources, Monitoring and Evaluation of Chemical Pollutants since 2014 and on the editorial board of *Indoor Air*, *Journal of Exposure Science & Environmental Epidemiology*, and *PLOS ONE*.