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硕导所在专业	环境科学与工程 资源与环境					
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研究方向	大气化学；新型污染物识别；环境健康					
主要科研项目及代表性成果(包括项目、论文、专著、获奖、专利等):						
<p>科研项目:</p> <p>例：项目名称，项目来源，本人排名，2015.6-2018.12，在研/结项</p> <ol style="list-style-type: none"> 1. 天津理工大学技术转移转化体系建设，天津市科技局创新平台项目，主持，2019.10-2020.09，在研。 2. 城市生活垃圾集中式自动分类回收系统开发，天津市科技局重点研发计划科技支撑重点项目，主持，2018.04-2021.03，在研。 3. 大气细颗粒物暴露对人体 DNA 表达影响研究，天津市高等学校科技发展基金计划项目，主持，2018.01-2020.12，在研。 4. 天津市公共安全风险防控与应急装备技术规划研究，天津市科技发展战略研究计划项目（重点项目），主持，2017.10-2018.9，结项。 5. 基于表观遗传学方法评估大气细颗粒物对人体心血管疾病的健康效应，国家自然科学基金青年项目，主持，2017.01-2019.12，结项。 6. 基于人群健康效应的颗粒物排放源控制研究，工业烟尘污染控制湖北省重点实验室开放基金，主持，2016.01-2018.01，结项。 7. 天津普通人群 PM_{2.5} 暴露与人体氧化应激反应相关研究，天津市科委自然科学基金，主持，2015.04-2018.03，结项。 8. 普通人群细颗粒物载带多环芳烃暴露研究，天津市高等学校科技发展基金计划项目，主持，2014.07-2017.11，结项。 9. 自由对流层 PAHs 的污染特征及输送规律研究，国家自然科学基金面上项目，参加，2012.01-2015.12，结项。 10. 大气细粒子中 PAHs 暴露与老年人代谢标志物的相关研究，南开大学优秀博士基金，主持，2012.09-2013.09，结项。 11. 空气颗粒物来源与人体暴露表征研究，国家 973 项目“大气颗粒物致健康效应基础研究”，参加，2011.03-2015.03，结项。 12. 我国典型地区酸雨的生成机制及碱性物质的作用，国家 973 项目“中国酸雨沉降机制、输送态势及调控原理”，参加，2007.09-2009.09，结项。 						

代表性论文、著作、专利等:

例: xxx, xxx, xxx, 论文名称, 期刊名称, 发表年月, 期刊级别 (中文核心、中文重要, SCI、EI 等)

1. Lei Zhao, Shanjun Song, **Penghui Li***, Jing Liu, Jing Zhang, Lei Wang, Yaqin Ji, Jinpeng Liu*, Liqiong Guo, Jinbao Han. Fine particle-bound PAHs derivatives at mountain background site (Mount Tai) of the North China: Concentration, source diagnosis and health risk assessment. *Journal of Environmental Sciences*, 2021, 109: 77–87. (SCI, IF: 4.302).

2. Xingchen Zhao, **Penghui Li**, Shanjun Song*, Huiyu Wang, Lining Zhao, Wansong Zong, Haiyan Zhan, Guangbo Qu, Ligang Hu, Zongwei Ca*, Guibin Jiang. Molecular structural heterogeneity of bisphenols governs their serum albumin binding. *Science of the Total Environment*, 2021, 781: 146499. (SCI, IF: 5.589).

3. Yang Jiang, Jinpeng Liu*, Zhouman Huang, **Penghui Li***, Meiting Ju, Sihui Zhan, Ping Wang. Air bag bioreactor to improve biowaste composting and application. *Journal of Cleaner Production*, 2019, 237: 117797. (SCI, IF: 6.395)

4. Huiyu Wang, Shanjun Song*, Mingwu Shao, Yan Gao, Chen Yang, Ya Li, Weihua Wang, Yajuan He, **Penghui Li***. Determination of bisphenol analogues in food-contact plastics using diode array detector, charged aerosol detector and evaporative light-scattering detector. *Ecotoxicology and Environmental Safety*, 2019, 186: 109778 (SCI, IF: 4.527)

5. **Peng-Hui Li***, Hong-yan Jia, Yan Wang, et al. Characterization of PM_{2.5}-bound phthalic acid esters (PAEs) at regional background site in northern China: Long-range transport and risk assessment. *Science of the Total Environment*, 2019, 659:140–149. (SCI, IF: 5.589)

6. **Peng-hui Li**, Jie Yu, Cheng-liang Bi, et al. Health risk assessment for highway toll station workers exposed to PM_{2.5}-bound heavy metals. *Atmospheric Pollution Research*, 2019, 10: 1024-1030. (SCI, IF: 2.918)

7. Na Zheng, Shanjun Song**, Xinglong Jin, Hongyan Jia, Yan Wang, Yaqin Ji, Liqiong Guo, **Penghui Li***. Assessment of Carbonaceous Aerosols at Mount Tai, North China: Secondary Formation and Regional Source Analysis. *Aerosol and Air Quality Research*, 2019, 19: 1708–1720. (SCI, IF: 2.735)

8. Juan Liu, Hui-Yu Wang, Shan-Jun Song, Hui-Chun Ma, Wen-Tao Sun, Lei Wang**, Yan Wang, Xian-Liang Yi, Li-Qiong Guo, **Penghui Li***. Levels, Potential Sources and Risk Assessment of Organochlorine Pesticides in Atmospheric Particulate Matter at Regional Background Site. *Aerosol and Air Quality Research*, 2019, 19: 2008–2016. (SCI, IF: 2.735)

9. Akin Cayir, Timothy M. Barrow, **Peng-Hui Li***, et al. Occupational noise exposure is associated with hypertension in China: Results from project ELEFANT. *Plos One*, 2018, 13(12): e0209041. (SCI, IF: 2.766)

10. Hui Xu, **Peng-hui Li**, Liqiong Guo*, et al. (共同一作) Obesity as an effect modifier of the association between menstrual abnormalities and hypertension in young adult women: Results from Project ELEFANT. *Plos One*, 2018, 13(11): e0207929. (SCI, IF: 2.766)
11. Jun-Jie Yue, Roberta Palmiero, **Peng-Hui Li***, et al. Characterization of PM1-bound Metallic Elements in the Ambient Air at a High Mountain Site in Northern China. *Aerosol and Air Quality Research*, 2018, 18:2967–2981. (SCI, IF: 2.735)
12. Yu-jie Zhao, You-ping Shou, Tian-yu Mao, Li-qiong Guo, **Peng-hui Li***, Xianliang Yi, Qian-qian Li, Li-zhu Sheng, Huan-rong Zuog, Jing Wang, and Lei Wang. PAHs Exposure Assessment for Highway Toll Station Workers Through Personal Particulate Sampling and Urinary Biomonitoring in Tianjin, China. *Polycyclic Aromatic Compounds*, 2018, 38(4): 379-388. (SCI,
13. Liqiong Guo, **Peng-hui Li**, Hua Li, et al. Effects of environmental noise exposure on DNA methylation in the brain and metabolic health. *Environmental Research*, 2017, 153: 73–82. (SCI, IF: 4.732)
14. Jing Liu, Yan Wang, **Peng-Hui Li***, et al. Polycyclic Aromatic Hydrocarbons (PAHs) at High Mountain Site in North China: Concentration, Source and Health Risk Assessment. *Aerosol and Air Quality Research*, 2017, 17: 2867-2877. (SCI, IF: 2.735)
15. **Peng-hui Li**, Yan Wang*, Yu-hua Li et al. Gas-particle partitioning and precipitation scavenging of polycyclic aromatic hydrocarbons (PAHs) in the free troposphere in southern China. *Atmospheric Environment*, 2016, 128: 165-174. (SCI, IF: 4.012)
16. **Peng-Hui Li***, Yan Wang*, Yu-Hua Li et al. Characterization of polycyclic aromatic hydrocarbons in cloud deposition at Mount Heng in southern China. *Aerosol and Air Quality Research*, 2016,16: 3164–3174. (SCI, IF: 2.735)
17. Hong-yan Jia, Lei Wang, **Peng-hui Li*** et al. Characterization, long-Range transport and source identification of carbonaceous aerosols during spring and autumn periods at a high mountain site in south China. *Atmosphere*, 2016,7: atmos7100122. (SCI, IF: 1.487)
18. **Peng-Hui Li**, Yan Wang, Tao Li et al. Characterization of carbonaceous aerosols at Mount Lu in South China: implication for secondary organic carbon formation and long-range transport. *Environment Science and Pollution Research*, 2015, 22: 14189-14199. (SCI, IF: 2.914)
19. **Peng-Hui Li**, Yan Wang, Yu-hua Li et al. Origin and distribution of PAHs in ambient particulate samples at high mountain region in southern China. *Advances in Meteorology*, 2015, ID:245438 (SCI, IF: 1.645)
20. **Peng-Hui Li**, Shao-Fei Kong, Chun-Mei Geng et al. Assessing hazardous risks of vehicle inspection workers exposure to particulate heavy metals in their working place. *Aerosol and Air Quality Research*, 2013,13:255-265. (SCI, IF: 2.827)
21. **Peng-Hui Li**, Shao-Fei Kong, Chun-Mei Geng et al. Health risk assessment for vehicle inspection workers exposed to airborne polycyclic aromatic hydrocarbons (PAHs) in their work place. *Environmental Science Processes & Impacts*, 2013, 15(3): 623-632. (SCI, IF: 1.991)
22. **Peng-hui Li**, Bin Han, Jing Huo et al.Characterization, meteorological influences

and source identification of carbonaceous aerosols during the autumn-winter period in Tianjin, China. *Aerosol and Air Quality Research*, 2012, 12: 283-294. (SCI, IF: 2.827)

23. **Peng-hui Li**, Yan Wang, Yu-hua Li et al. Characterization of polycyclic aromatic hydrocarbons deposition in PM_{2.5} and cloud/fog water at Mount Taishan. *Atmospheric Environment*, 2010, 44:1996-2003 (SCI, IF: 4.012)

24. Yan Wang, **Peng-hui Li**, Hong-li Li et al. PAHs distribution in precipitation at Mount Taishan China. Identification of sources and meteorological influences. *Atmospheric Research*, 2010, 95:1-7. (SCI, IF: 4.144)

25. Tianru Ni, **Penghui Li**, Bin Han et al. Spatial and temporal variation of chemical composition and mass closure of ambient PM₁₀ in Tianjin, China. *Aerosol and Air Quality Research*, 2013, 13: 1832–1846 (SCI, IF: 2.827)

26. **李彭辉**, 王艳, 李玉华, 王德众, 刘恒德, 王文兴。泰山云雾水中多环芳烃的特征与来源分析. *中国环境科学*, 2010, 30(6): 742-746。(中文核心, EI 收录)

人才称号:

1. 天津市创新人才推进计划青年科技优秀人才, 2019 年。
2. 天津市“131”创新人才第三层次, 2014 年。

主要获奖:

1. 红土镍矿湿法冶炼废渣高值化综合利用与资源化关键技术及应用, 天津市科技进步一等奖, 2020, 排名第九。
2. 泰山大气沉降 PAHs 研究, 山东省优秀科技创新成果奖三等奖, 2010, 排名第一。