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研究领域

环境政策与管理；风险规制与治理

研究方向：规制与治理（风险规制与治理、环境规制与治理）；态度与行为（风险认知与沟通、环境态度与行为）

教育背景

2003.08 — 2007.09 卡耐基梅隆大学，工程与公共政策，硕士、博士
2000.09 — 2003.07 北京大学，环境科学，硕士
1995.09 — 2000.07 大连理工大学，化学工程和英语，双学士

研究经历

2019 — ，北京大学环境科学与工程学院环境管理系，长聘副教授、研究员
2010 — 2018，北京大学环境科学与工程学院环境管理系，副教授
2009 — 2010，北京大学环境科学与工程学院环境管理系，讲师
2008 — 2009，美国太平洋西北国家实验室，研究员（Research Scientist）
2007 — 2008，卡耐基梅隆大学，工程与公共政策，博士后

论文与著作

中英文论文（#指导或协助指导的学生，*通讯作者）

规制与治理（风险规制与治理、环境规制与治理）

1. H. Li[#], **J. Xu***, J. Wiener (2021). Comparing environmental risk regulations in China and the United States. *Risk Analysis* (forthcoming)
2. H. Yu, **J. Xu***, L. Xue (2021). Engaging experts in global biotech governance: what influences their judgement on value-laden challenges? *Science and Public Policy* (online)
<https://doi.org/10.1093/scipol/scab022>
3. Z. Dai, E. Burns, P. Irvine, D. Tingley, **J. Xu**, D. Keith (2021). Elicitation of US and Chinese expert judgments show consistent views on solar geoengineering. *Humanities and Social Sciences Communications*, 8, Article number: 18.
4. S. Fan[#], L. Xue and **J. Xu*** (2018). What drives the policy attention to climate change in China: an empirical analysis through the lens of *People's Daily*. *Sustainability*, 10(9), 2977.

5. L. Chen#, **J. Xu**, Y. Zhou (2017). Regulating the environmental behavior of manufacturing SMEs: interfirm alliance as a facilitator. *Journal of Cleaner Production*, 165C: 393-404.
6. C.S.F. Chi, I. Ruuska, **J. Xu*** (2016). Environmental impact assessment of infrastructure projects: a governance perspective. *Journal of Environmental Planning and Management*, 59(3), 393-413.
7. **J. Xu**, L. Xue (2016). On resilience-based risk governance. In *Resilience In And For Risk Governance (RIARG): An IRGC Annotated Resource Guide*. International Risk Governance Council. (Invited paper)
<https://www.irgc.org/wp-content/uploads/2016/04/Xu-Xue-On-Resilience-based-Risk-Governance.pdf>
8. M. Florin, **J. Xu** (2014). Risk governance: an overview of drivers and success factors. In *the Global Assessment Report on Disaster Risk Reduction 2015*. The United Nations Office for Disaster Risk Reduction. (Invited paper)
<http://www.preventionweb.net/english/hyogo/gar/2015/en/home/documents.html>
9. D. Huang#, **J. Xu**, S. Zhang (2012). Valuing the health risks of particulate air pollution in the Pearl River Delta, China, *Environmental Science & Policy*, 15(1): 38-47.
10. X. Xie, S. Zhang, **J. Xu**, D. Wu, T. Zhu (2012). Cost-effective control of ground-level ozone pollution in and around Beijing. *Chinese Journal of Population Resources and Environment*, 10(2): 101-109.

态度与行为（风险认知与沟通、环境态度与行为）

11. M. Tu, B. Zhang, **J. Xu**, F. Lu (2020). Mass media, information and demand for environmental quality: evidence from “Under the Dome”. *Journal of Development Economics*. 143: 102402
<https://doi.org/10.1016/j.jdeveco.2019.102402>
12. H. Tan, G. Wong-Parodi, **J. Xu** (2020). Not Under My Backyard? Psychological distance, local acceptance, and shale gas development. *Energy Research & Social Science*. 61: 101336
<https://doi.org/10.1016/j.erss.2019.101336>
13. H. Tan, and **J. Xu*** (2020). Differentiated effects of risk perception and causal attribution on public behavioral responses to air pollution: a segmentation analysis. *Journal of Environmental Psychology*. 65: 101335 <https://doi.org/10.1016/j.jenvp.2019.101335>
14. C. Qin#, **J. Xu***, G. Wong-Parodi, L. Xue (2020). Change in public concern and behavioral intention toward air pollution *Under the Dome*. *Risk Analysis*, 40(10): 1983-2001.
15. H. Tan, **J. Xu**, G. Wong-Parodi (2019). The politics of Asian fracking: public risk perceptions towards shale gas development in China. *Energy Research & Social Science*. 54: 46-55.
16. B. Sergi, I. Azevedo, T. Xia#, A. Davis, and **J. Xu*** (2019). Support for emissions reductions based on immediate and long-term pollution exposure in China. *Ecological Economics*, 158:26-33.
17. **J. Xu***, C.S.F. Chi, K. Zhu# (2017). Concern or apathy: the attitude of the public toward urban air pollution. *Journal of Risk Research*, 20(4): 482-498.

18. **J. Xu** and Z. Peng (2015). People at risk of influenza pandemics: the evolution of perception and behavior. *PLoS ONE*, 10(12): e0144868.
19. **J. Xu***, Y. Zhang, B. Liu, L. Xue (2014). Risk perception in natural disaster management. *2014 International Conference UNESCO Chair in Technologies for Development: What Is Essential?* 4-6 June 2014, EPFL, Lausanne, Switzerland.
20. C.S.F. Chi, **J. Xu**, L. Xue (2014). Public participation in environmental impact assessment for public projects: a case of nonparticipation. *Journal of Environmental Planning and Management*, 57(9), 1422-1440.
21. **J. Xu***, H. K. Florig, M. DeKay (2011). Evaluating an analytic-deliberative risk-ranking process in a Chinese context, *Journal of Risk Research*, 14(7), 899-918.

决策分析（不确定条件下的决策、环境决策分析）

22. **J. Xu**, X. Wang, S. Zhang (2013). Risk-based air pollutants management at regional levels, *Environmental Science & Policy*, 25, 167-175.
23. S. Blumsack and **J. Xu** (2011). Spatial variation of emissions impacts due to renewable energy siting decisions in the Western U.S. under high-renewable penetration scenarios, *Energy Policy*, 39(11), 6962-6971.
24. **J. Xu**, P. Fischbeck, M. Small, J. VanBriesen, and E. Casman (2010). Closure to "Identifying sets of key nodes for placing sensors in dynamic water distribution networks". *Journal of Water Resources Planning and Management*, 136(2), 295-296.
25. **J. Xu***, M. Small, P. Fischbeck, J. VanBriesen (2010). Integrating location models with Bayesian Analysis to inform decision making. *Journal of Water Resources Planning and Management*, 136(2), 209-216.
26. **J. Xu***, M. Johnson, P. Fischbeck, M. Small, J. VanBriesen (2010). Robust placement of sensors in dynamic water distribution systems. *European Journal of Operational Research*, 202, 707-716.
27. P. C. Wong, L. R. Leung, N. Lu, M. J. Scott, P. Mackey, H. Foote, J. Correia Jr., Z. T. Taylor, **J. Xu**, S. D. Unwin, A. Sanfilippo (2009). Designing a collaborative visual analytics tool for social and technological change prediction. *IEEE Computer Graphics and Applications*, 29(5), 58-68.
28. **J. Xu***, J. VanBriesen, M. Small, and P. Fischbeck (2009). Decision making under information constraints. *World Environmental and Water Resources Congress 2009*, v342, 414-422.
29. **J. Xu***, and D. Chassin (2009). An agent-based simulation of the Smartgrid. *SIMS50-Simulation and Modeling of Energy Technology*, Fredericia, Denmark
30. **J. Xu***, P. Fischbeck, M. Small, J. VanBriesen, and E. Casman (2008). Identifying sets of key nodes in dynamic water distribution networks. *Journal of Water Resources Planning and Management*, 134(4), 378-385.
31. A. Ostfeld, et al. (2008). The Battle of the Water Sensor Networks (BWSN): A design challenge for engineers and algorithms. *Journal of Water Resources Planning and Management*, 134 (6), 556-568. (Joint publication by all participants of the BWSN challenge).

32. A. Krause, J. Leskovec, S. Isovitsch, **J. Xu**, C. Guestrin, J. VanBriesen, M. Small, P. Fischbeck (2006). Optimizing sensor placement in water distribution systems using submodular function maximization. *Proceedings of the 8th Annual Water Distribution Systems Analysis Symposium*, 247, 109.

其他论文 (参与的其他方面的工作)

33. Y. Wang, X. Chen, A. G. L. Borthwick, T. Li, H. Liu, S. Yang, C. Zheng, **J. Xu**, J. Ni (2020). Sustainability of Global Golden Inland Waterways, *Nature Communications*. 11:1553
34. Z. Zhou, Y. Kang, H. Li[#], S. Cao, **J. Xu**, X. Duan, G. Yang, K. Shao (2020). Estimating inorganic arsenic exposure from rice intake in Chinese urban population. *Environmental Pollution*. 263, Part A, 114397
35. L. Li[#], **J. Xu*, J. Hu, J. Han (2014). Reducing nitrous oxide emissions to mitigate climate change and protect the ozone layer. *Environmental Science & Technology*, 48(9), 5290–5297.**
36. Q. Wang, L. Zhao, X. Fang, **J. Xu**, Y. Li, Y. Shi, J. Hu (2013). Gridded usage inventories of chlordane in China, *Frontiers of Environmental Science and Engineering*, 7(1): 10–18 (仅在写作上有贡献)
37. X. Fang, J. Wu, **J. Xu**, D. Huang, Y. Shi, D. Wan, H. Wu, M. Shao, J. Hu (2012). Ambient mixing ratios of chlorofluorocarbons, hydrochlorofluorocarbons and hydrofluorocarbons in 46 Chinese cities. *Atmospheric Environment*, 54: 387-392 (仅在写作上有贡献) (SCI, IF=4.798, 19/94, Q1)
38. D. Wu, S. Zhang, **J. Xu**, T. Zhu (2011). The CO₂ reduction effects and climate benefit of Beijing 2008 Summer Olympics Green Practice. *Energy Procedia*, 5(1): 280-296.
39. Wan, D. [#], **Xu, J.**, Zhang, J., Tong, X., Hu, J. (2009). Historical and projected emissions of major halocarbons in China. *Atmospheric Environment*, 43, 5822-5829.

期刊论文 (中文学术论文, #指导或协助指导的学生, *通讯作者)

40. 刘晓[#], **徐建华***. 公众对电力来源清洁化的支付意愿. *资源科学*, 2020, 42(12): 2328-2340.
41. 潘翻番[#], **徐建华***, 薛澜 (2020). 自愿型环境规制: 研究进展及未来展望. *中国人口·资源与环境*. 30(1): 74-82.
42. 张晓东[#], **徐建华*** (2019). 气代煤政策执行中的气荒成因解析: 政府和市场相继失灵的视角. *中国行政管理*. 2019(6): 117-121.
43. 汪若宇[#], 秦川申[#], **徐建华*** (2019). 大气污染背景下公众减少驾车以及购车意愿的影响因素研究. *北京大学学报*. 55(4): 738-746.
44. 汪若宇[#], **徐建华*** (2018). 环境治理中的协商式公众参与——基于文献案例的研究. *公共管理评论*, 28: 47-60.
45. 赵岩[#], **徐建华*** (2018). 我国石油化工业事故风险分析. *北京大学学报*, 54(4): 857-864.
46. 夏田[#], **徐建华*** (2018). 公众对城市大气污染的健康防护行为研究. *北京大学学报*, 54(4): 801-806.
47. **徐建华**, 薛澜, 寿明佳[#] (2016). 环境社会治理中的公众风险认知: 半个世纪研究的回顾与未来展望. *公共管理评论*, 22: 85-103.

48. 吴彤[#], 徐建华* (2016). 基于内容分析法的气候变化报道国际比较. 北京大学学报, 52(2): 327-335.
49. 朱可珺[#], 徐建华* (2014). 城市大气污染的风险认知研究评述与展望. 北京大学学报, 50(5): 969-978.
50. 方波[#], 徐建华* (2013). 风险政策制定体系中的风险权衡分析研究. 公共管理评论, 9-25.
51. 徐建华, 胡建信, 张剑波 (2003). 中国 ODS 的排放及其对温室效应的贡献. 中国环境科学, 23(4): 363-366.

期刊论文 (观点文章)

52. 徐建华*, 薛澜 (2020). 风险沟通与科学传播. 科普研究, 2020(2): 5-12.
53. 薛澜, 徐建华 (2020). 提升应急管理风险沟通能力. 中国应急管理, 2020(4): 14-16.
54. 徐建华*, 范世炜, 薛澜 (2020). 环境风险规制的经济成本及次生影响 —— 决策中需要重视的向度. 中国环境管理, 12(2): 56-61.
55. 徐建华 (2018). 环境治理中的次生风险问题研究. 中国国情国力, 3: 12-14.
56. 王顺兵, 徐建华, 王磊 (2015). 提高我国区域大气污染联防联控科技支撑能力的建议. 全球科技经济信息瞭望, 30(1): 60-66.
57. 徐建华 (2010). 环境风险 —— 高悬于中国经济之上的达摩克利斯之剑. 中国与世界观察, 总第 20 期, 2010 年第 3/4 合期.

书籍 (专著、译著、章节、书评等)

58. 李文军, 徐建华, 芦玉 (2018). 《自然保护领域管理体制变革方向和路径研究》(中国国家公园体制建设研究丛书). 中国环境出版集团. (A vision for Reform: Roadmap and Trends for China's Conservation of Natural Resources). (专著)
59. 徐建华, 薛澜 (2018). 《环境与健康领域的风险权衡》. 清华大学出版社. (原著: Graham J D, Wiener J B. (1995). Risk vs. Risk: Tradeoffs in Protecting Health and the Environment. Cambridge, Massachusetts: Harvard University Press) (译著)
60. 李焕宏[#], 徐建华* (2017). 大气污染治理中的风险转移问题. 《环境管理蓝皮书-中国环境管理发展报告(2017)》(李金惠 主编), 社会科学文献出版社. (章节)
61. 周源, 徐建华, 许冠楠, 张晓东[#] (2017). 第四章: 绿色产业政策执行的困局与思考. 《巴黎协定后中国绿色发展的若干问题思考》(钱小军、周剑、吴金希主编). 清华大学出版社. (章节)