

Professor Shenghui Cui

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EDUCATION AND PROFESSIONAL EXPERIENCE

Fujian Normal University, Fuzhou, P. R. China 1994 BSc. in Biology
Xiamen University, Xiamen, P. R. China 1997 M.S., Environmental Science
Xiamen University, Xiamen, P. R. China 2003 Ph.D., Environmental planning and management
2010-present: Professor of urban Environmental planning and management, Institute of Urban Environment, Chinese Academy of Sciences;
2006-2010: Associate professor of urban Environmental planning and management, Institute of Urban Environment, Chinese Academy of Sciences;
2004- 2006: Post doc research fellow, School of Environment, Beijing Normal University, Beijing, China;
1998- 2004: lecturer, School of Fisheries, Jimei University, Xiamen, China

RESEARCH INTEREST:

Urban climate change resilience, urban food systems and carbon, nitrogen and phosphorus nutrient management.

Pro.Cui has rich experience in urban ecological process and control and urban environmental planning. His main research projects in the past five years are as follows:

- (1) Novel Organic recovery using Mobile ADvanced technology (National Key Research and Development Program)
- (2) Multi-functional urban Green space planning based on transdisciplinary learning (International Partnership Program of the International Cooperation Bureau of the CAS)
- (3) Comparative risk assessment of hydrologic hazards and adaption policy in Jiulong River and Chao Phraya Watershed (NSFC-NRCT Joint Project);
- (4) Sustainable, Innovative, Resilient, and Interconnected Urban food System (NSFC-JPI_UE Joint Project)
- (5) The study on temporal and spatial dynamic mechanisms of city nitrogen flow and its telecoupling (NSFC)
- (6) Study on Theory and method of Green city evaluation (Key project of CAS)

He has published more than 120 papers in peer-reviewed journals including Proceedings of the National Academy of Sciences of the United States of America (PNAS), Environment International, Environmental Science & Technology, Scientific reports, Science of the Total Environment and Environmental Research Letters, etc.

SELECTED PAPERS:

1. Crucial factors of the built environment for mitigating carbon emissions. YS Shen, YC Lin, S Cui, Y Li, X Zhai. *Science of The Total Environment*, 2022, 806:150864
2. Exploring the environment-nutrition-obesity effects associated with food consumption in different groups in China. L Wang, W Huang, C Zhao, Y Hu, S Cui. *Journal of Environmental Management*. 2022, 317:115287
3. The co-benefits for food carbon footprint and overweight and obesity from dietary adjustments in China. L Wang, S Cui, Y Hu, P O'Connor, B Gao, W Huang, Y Zhang, S Xu. *Journal of Cleaner Production*. 2021, 289:125675
4. Analyzing the spatiotemporal dynamics of flood risk and its driving factors in a coastal watershed of southeastern China. J Tang, Y Li, S Cui, L Xu, Y Hu, S Ding, V Nitivattananon. *Ecological Indicators*. 2021, 121:107134
5. Urban food systems: a bibliometric review from 1991 to 2020. Q Zhong, L Wang, S Cui. *Foods*. 2021, 10 (3):662
6. Driving forces of nitrogen input into city-level food systems: Comparing a food-source with a food-sink prefecture-level city in China. W Huang, B Gao, J Lin, S Cui, Q Zhong, C Huang. *Resources, Conservation and Recycling*. 2020, 160:104850
7. Food production in China requires intensified measures to be consistent with national and provincial environmental boundaries. Y Hu, M Su, Y Wang, S Cui, F Meng, W Yue, Y Liu, C Xu, Z Yang. *Nature Food*. 2020, 1 (9):572-582
8. Linking land-use change, landscape patterns, and ecosystem services in a coastal watershed of southeastern China. J Tang, Y Li, S Cui, L Xu, S Ding, W Nie. *Global Ecology and Conservation*. 2020, 23:e01177
9. Identifying the trade-offs between climate change mitigation and adaptation in urban land use planning: An empirical study in a coastal city. L Xu, X Wang, J Liu, Y He, J Tang, M Nguyen, S Cui. *Environment international*. 2019, 133:105162
10. Assessing the adaptive capacity of urban form to climate stress: a case study on an urban heat island. L Xu, S Cui, J Tang, M Nguyen, J Liu, Y Zhao. *Environmental Research Letters*. 2019, 14 (4): 044013
11. Resilience of coastal communities to climate change in Bangladesh: Research gaps and future directions. MZ Hoque, S Cui, X Lilai, I Islam, G Ali, J Tang. *Watershed Ecology and the Environment*. 2019, 1:42-56
12. Chinese cropping systems are a net source of greenhouse gases despite soil carbon sequestration. Gao Bing, Huang Tao, Ju Xiaotang, Gu Baojing, Huang Wei, Xu Lilai*, Cui Shenghui. *Global Change Biology*. 2018, 24:5590-5606
13. Investigating the comparative roles of multi-source factors influencing urban residents' transportation greenhouse gas emissions. Lilai Xu, Shenghui Cui*. *Science of the Total Environment*. 2018, 644:1336-1345
14. Changing urban cement metabolism under rapid urbanization: A flow and stock perspective. Wei Huang, Yunfeng Huang, Shuzhi Lin, Zhihui Chen, Bing Gao, Shenghui Cui*. *Journal of Cleaner Production*. 2018, 173:197-206
15. Valuation and validation of carbon sources and sinks through land cover/use change analysis: The case of Bangkok metropolitan area. Ali Ghaffar, Pumijumng N, Cui S. *Land Use Policy*. 2018, 70(1):471-478
16. Driving forces and impacts of food system nitrogen flows in China, 1990 to 2012. Gao, B(#), Huang, YF, Huang, W, Shi, YL, Bai, XM, Cui SH*. *Science of the Total Environment*. 2018, 610:430-441
17. Decarbonization action plans using hybrid modeling for a low-carbon society: The case of Bangkok Metropolitan Area. Ali, G, Pumijumng, N, Cui SH. *Journal of Cleaner Production*. 2017, 168:940-951
18. Energy efficiency of urban transportation system in Xiamen, China. An integrated approach. Meng, FX, Liu, GY, Yang, ZF, Casazza, M, Cui SH, Ulgiati, S. *Applied Energy*. 2017, 186:234-248

RECORD OF DOCTORAL STUDENT SUPERVISION

1. 2007 Graduated Longyu Shi Environmental economy and environmental management
2. 2008 Graduated Lingyang Pan Environmental economy and environmental management
3. 2008 Graduated Hongbin Niu Environmental economy and environmental management
4. 2008 Graduated Xiai Yang Environmental economy and environmental management
5. 2009 Graduated Shengnan Zhao Environmental economy and environmental management
6. 2011 Graduated Yalan Shi Environmental economy and environmental management
7. 2012 Graduated Su Xu Environmental economy and environmental management
8. 2013 Graduated Lilai Xu Environmental economy and environmental management
9. 2015 Graduated Yuanchao Hu Ecology
10. 2015 Graduated KAMAL THABITI SOUDJAY Environmental economy and environmental management
11. 2016 Graduated Yanmin Li Ecology
12. 2016 Graduated Jianxiong Tang Ecology
13. 2016 Graduated MUHAMMAD ZIAUL HOQUE Environmental economy and environmental management
14. 2017 Graduated Lan Wang Ecology
15. 2018 In Study Wei Huang Ecology

16. 2019 In Study Lihong Wang Ecology
17. 2019 In Study BIKRAM MANANDHAR Ecology
18. 2020 In Study Xuejuan Fang Ecology
19. 2020 In Study SANWIT IABCHOON Ecology
20. 2021 In Study Hongjie Huang Ecology
21. 2022 In Study Yiqiang Zhong Environmental economy and environmental management
22. 2022 In Study ANKHTUYA BOLD Environemntal Economics and Environmental Management
23. 2022 In Study BEHAILU NADEW BEREDED Environemntal Economics and Environmental Management
24. 2023 In Study Jingyi Wang Ecology