

JUNPING JI

Phone: +86 135 0285 1983

Email: jackyji@pku.edu.cn

Website: https://www.researchgate.net/profile/Junping_Ji

Address: E329, Peking University, University Town, Nanshan District, Shenzhen, Guangdong, P.R. China

RESEARCH INTERESTS

Policy analysis on greenhouse gas (GHG) mitigation in China, including GHG emissions accounting, mitigation potential and cost, and paths to carbon emission peaking in Chinese cities.

EDUCATION

Peking University

Sep. 2006 - Jan. 2013

Ph.D. in Environmental Science

Dissertation: Driving Factors of CO₂ Emissions from China's Economy: A Study Based on Input-Output Analysis (In Chinese)

Advisor: Prof. Xiaoming Ma

Tongji University

Sep. 2002 - Jul. 2006

B.S. in Environmental Science

Thesis: Biodegradation Characteristics of Chlorphenols in Anaerobic Carrier Membrane Reactor (In Chinese)

Advisor: Prof. Lin Chen

RESEARCH EXPERIENCE

Peking University Shenzhen Graduate School

Mar. 2015 - Present

Postdoc Fellow

New Energy Finance and Environmental Finance Lab, School of Environment and Energy

Research on low-carbon development pathways in Chinese cities, especially focus on the roadmap for carbon emission peaking in Shenzhen, China.

Zhejiang Economic Information Center

Jun. 2013 - Oct. 2014

Policy Analyst

Zhejiang Center for Climate Change and Low-carbon Development Cooperation

Responsible in policy design of GHG mitigation for Zhejiang Province, especially focus on mitigation target setting for cities and roadmap for carbon emission peaking in Zhejiang Province.

PROJECTS

Roadmap for Carbon Emission Peaking in Shenzhen

Apr. 2017 - Present

Sponsored by Research Center of Urban Development of Shenzhen

Construct LEAP model for Shenzhen.

Decomposition of Shenzhen's Carbon Reduction Target and Its Impact on Local Emission Trading System

Mar. 2017 - Present

Sponsored by Development and Reform Commission of Shenzhen

Decompose Shenzhen's emission reduction targets by year.

- Shenzhen Greenhouse Gas Inventory: 2012-2015** *Jan. 2016 - Jan. 2017*
Sponsored by Development and Reform Commission of Shenzhen
Compile the GHG inventory of power industry in Shenzhen.
- Carbon Reduction Potential Analysis in Shenzhen** *Oct. 2014 - Jun. 2016*
Sponsored by the World Bank
Analyze carbon reduction potential of manufacturing and power industries in Shenzhen.
- Paths to Carbon Emission Peaking in Zhejiang Province** *Jul. 2014 - Oct. 2014*
Sponsored by China Clean Development Mechanism Fund
Collect data and design LEAP model for Zhejiang Province.
- Zhejiang Low Carbon Development Report 2013** *Mar. 2014 - Jun. 2014*
Sponsored by Development and Reform Commission of Zhejiang Province
As a member of the core writing team.
- Evaluation Plan on the Completion of Carbon Reduction Targets in Cities of Zhejiang Province** *Dec. 2013 - Jul. 2014*
Sponsored by Development and Reform Commission of Zhejiang Province
Propose the evaluation criteria.
- Capacity Building for Controlling Greenhouse Gas Emissions in Zhejiang Province** *Jul. 2013 - Dec. 2013*
Sponsored by China Clean Development Mechanism Fund
Set emission reduction targets for cities in Zhejiang Province.

PUBLICATIONS

1. **Junping Ji**, Guangxiao Hu, Yiwei Wu, Xiaoming Ma. China's Fast Growing CO₂ Emissions Driven by Increasing Consumption in 1992-2012: A Structural Decomposition Analysis. IOP Conf. Series: Earth and Environmental Science, 2017, 59: 012051. (Full paper)
2. Guangxiao Hu, Lu Sun, Xiaoming Ma, **Junping Ji**. Influencing Factors of CO₂ Emissions in China's Manufacturing - An Analysis Based on Manufacturing Structural Changes. Advances in Engineering Research, 2016, 63: 621-627. (Note: Junping Ji is the corresponding author.) (Full paper)
3. Yu Cai, Dan Dudek, Xiaoming Ma, Jianyu Zhang, Josh Margolis, Bella Liu and **Junping Ji**. Research and Practice on Incorporating Mobile Sources into Shenzhen Carbon Emissions Trading System. Journal of Renewable Sustainable Energy, 2015, 7: 041502. (Note: Junping Ji is a co-corresponding author.) (Full paper)
4. **Junping Ji**, Guangxiao Hu, Xiaoming Ma. Sectoral Decomposition of China's CO₂ Emission Growth Drivers: An Analysis Based on Input-output Model of Non-competitive Imports. Journal of Environmental Economics, 2016, 1(1): 43-58. (Full paper in Chinese)
5. **Junping Ji**, Xiaoming Ma. Review of Carbon Footprint: Definitions and Accounting Methods. Ecological Economy, 2011, (4): 76-80. Full paper in Chinese
6. **Junping Ji**, Lei Liu, Xiaoming Ma. Greenhouse Gas Emissions by Chinese Economy: An Assessment Based on EIO-LCA Model. Acta Scientiarum Naturalium Universitatis Pekinensis, 2011, 47(4): 741-749. (Full paper in Chinese)
7. **Junping Ji**, Xiaoming Ma. Structural Decomposition Analysis of the Increase in China's Greenhouse Gas Emissions. China Environmental Science, 2011, 31(12): 2076-2082. (Full paper in Chinese)
8. Xiawei Liao, **Junping Ji**, Xiaoming Ma. Consistency Analysis between Technology Plans and Reduction Target on CO₂ Emissions from China's Power Sector in 2020. China Environmental Science, 2013, 33(3): 553-559. (Full paper in Chinese)

9. Ying Huang, **Junping Ji**, Xiaoming Ma. Greenhouse Gas Emissions Reduction from Battery Electric Automobile: A Study Based on EIO-LCA Model. *China Environmental Science*, 2012, 32(5): 947-953. (Full paper in Chinese)
10. Peishan Song, **Junping Ji**, Xiaoming Ma. Structural Decomposition Analysis on the Growth of Carbon Emission from Energy Consumption in Guangdong. *Resources Science*, 2012, 34(3): 551-558. (Note: Junping Ji is the corresponding author.) (Full paper in Chinese)
11. Peishan Song, **Junping Ji**, Xiaoming Ma. CO₂ Emissions from Energy Consumption in Guangdong: An Assessment based on EIO-LCA Model. *Environmental Pollution & Control*, 2012, 34(1): 105-110. (Full paper in Chinese)
12. Xiaohuan Li, **Junping Ji**, Xiaoming Ma, Jingtian Wang. Life Cycle Greenhouse Gas Emission Assessment of Fuel Ethanol Based on EIO-LCA. *Acta Scientiarum Naturalium Universitatis Pekinensis*, 2011, 47(6): 1081-1088. (Full paper in Chinese)
13. Jingjing Jiang, Bin Ye, **Junping Ji**, Xiaoming Ma. Research on Contribution Decomposition by Industry to Chinas Carbon Intensity Reduction and Carbon Emission Growth. *Environmental Science*, 2014, 35(11): 4378-4386. (Full paper in Chinese)
14. Wen Zhang, Ling Chen, **Junping Ji**, Siqing Xia. Study on Biodegradation of 2,4-DCP by Anaerobic Sludge Acclimated by Mixed Mono-Chlorophenols. *Environmental Science*, 2007, 28(6): 1252-1257. (Full paper in Chinese)
15. Xiawei Liao, Qingliang Tan, Wen Zhang, Xiaoming Ma, **Junping Ji**. Analysis of Life-cycle Greenhouse Gas Emission Reduction Potential and Cost for China's Power Generation Sector. *Acta Scientiarum Naturalium Universitatis Pekinensis*, 2013, 49(5): 885-891. (Note: Junping Ji is the corresponding author.) (Full paper in Chinese)