

Chao Zhang

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Education

- 2007.08 - 2012.07 Division of Environmental System Analysis, School of Environment,
Tsinghua University, Ph.D.
- 2003.08 - 2007.06 School of Environment, Tsinghua University, B.Eng.

Professional Position

- 2013.09 – Now School of Economics and Management, Tongji University, Assistant
Professor.
- 2013.09 – 2014.07 Kennedy School of Government, Harvard University, Giorgio
Ruffolo Post-doctoral Research Fellow with Affiliation.
- 2012.09 – 2013.08 Kennedy School of Government, Harvard University, Joint Giorgio
Ruffolo and ETIP Post-doctoral Research Fellow in Sustainability
Science Program.

Teaching

Natural Resource and Environmental Management, Spring 2014.

Research Interests

1. Linkages and interactions of the complex energy-water-land-environment nexus and sustainable management for the coupled system.
2. Energy and environmental policy modeling and assessment based on a wide range of quantitative methods, e.g., environmentally extended input-output analysis (EEIO), computable general equilibrium (CGE) model.

Peer-reviewed Journal Articles

1. **Zhang, C.**, Anadon, L.D., A multi-regional input-output analysis of domestic virtual water trade and provincial water footprint in China. *Ecological Economics*. 2014, 100: 159-172.
2. Liang, S., **Zhang, C.**, Wang, Y., Xu, M., Liu, W., Virtual Atmospheric Mercury Emission Network in China. *Environmental Science & Technology*. 2014, 48: 2807-2815.
3. **Zhang, C.**, Anadon, L.D., Life cycle water use of energy production and its environmental impacts in China. *Environmental Science & Technology*. 2013, 47: 14459-14467.
4. **Zhang, C.**, Beck, M.B., Chen, J., Gauging the impact of global trade on China's local environmental burden. *Journal of Cleaner Production*. 2013, 54: 270-281.
5. **Zhang, C.**, Chen, J., Wen, Z., Alternative policy assessment for water pollution control in China's pulp and paper industry. *Resources, Conservation and Recycling*. 2012, 66: 15-26.
6. **Zhang, C.**, Chen, J., Wen, Z., Assessment of policy alternatives and key technologies for energy conservation and pollution reduction in China's synthetic ammonia industry. *Journal of Cleaner Production*. 2012, 25:96-105.
7. **Zhang, C.**, Wen, Z., Chen, J. An integrated model for technology forecasting to reduce pollutant emission in China's pulp industry. *Resources, Conservation and Recycling*. 2009, 54:62-72.
8. Li, G., Wen, Z., Du, B., **Zhang, C.**, Chen, J., An analysis of industrial water conservation potential and selection of key technologies based on the IWCPA model. *Resources, Conservation and Recycling*. 2008, 52(10): 1141-1152.

Conference Presentation

1. **Zhang, C.**, The Energy-Water Nexus in China. 2013 International Cooperation for Sustainable Energy Strategies: Energy Access & the Nexus with Water and Food. December 4-5, 2013, Milan, Italy.
2. **Zhang, C.**, Chen, J., Wen, Z., Scenario Analysis on Future Structural Change of China's Paper Industry: Policy Implications for Resource Conservation and Water Pollution Reduction. 6th International Conference on Industrial Ecology. June 7-10, 2011, Berkeley, California, United States.

Research Projects

1. 2011.03-2012.06, **Research on the Application of Bottom-up Technology Model in Environmental Technology Management**, funded by Chinese National Science

Foundation, core member

2. 2009.09-2012.06, **Assessment of Energy Conservation and Pollution Reduction Technologies in Key Industries**, funded by Chinese Ministry of Science and Technology, core member
3. 2008.09-2012.03, **Assessment of Best Available Techniques (BATs) of Pollution Control in Chemical Industry**, funded by Chinese Ministry of Environmental Protection, core member
4. 2010.10 – 2011.04, **Research on Carbon Emission in High Density Chinese Communities and Carbon Emission Reduction Methods**, entrusted by Environmental Scientific & Technological Center of the Sweden Embassy, core member