



Faculty

- Full Time Faculty
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Department of development economics

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Address:

Room 522, School of Economics, Peking University

Education background:

2005-2008 Ph.D. Peking University, China

Work experience:

2008-2010 Post Doctor, School of Economics, Peking University

2010-2010 Assistant Professor, School of Economics, Peking University

2012-Present Associate Professor, School of Economics, Peking University

Research interests:

Ecological Economics

Macro-environmental Economics

Systems Decision

Environmental Accounting

Urban Economy

Theory of Property Right

Teaching:

Ecological Economics (For undergraduates)

Introduction to Chinese Environmental Issues (For undergraduates)

Advanced Environmental Economics(For graduates);

Human Development: Theories and Practices (For graduates)

Publications:

As the first or corresponding author

Economic Growth Quality, Environmental Sustainability, and Social Welfare in China-Provincial Assessment Based on Genuine Progress Indicator (GPI) (with X. Long). Ecological Economics, 2019, 159: 157-176. (SSCI, IF="3.895," Q2)

What causes PM2.5 pollution? Cross-economy empirical analysis from socioeconomic perspective (with Y. Yao et al.). Energy Policy. 2018, 119: 458-472. (SSCI, IF="4.039," Q1)

Towards urban-rural sustainable cooperation: Models and policy implication (with J. Ren et al.). Journal of Cleaner Production, 2018, 213: 892-898. (SSCI, IF="5.651," Q1)

Energy use in world economy from household-consumption-based perspective (with X. Wu et al.). Energy Policy, 2018, 127: 287-298. (SSCI, IF="4.039," Q1)

A Review of the Ecological and Socioeconomic Effects of Biofuel and Energy Policy Recommendations (with X. Long). Renewable and Sustainable Energy Reviews, 2016, 61: 41-52. (SSCI, IF="9.184," Q1)

Is Urbanization Eco-Friendly? An Energy and Land Use Cross-Country Analysis? (with X. Long et al.). Energy Policy.

2017, 100: 387–396 (SSCI, IF="4.039," Q1)

Assessing the energy-saving effect of urbanization in China based on stochastic impacts by regression on population, affluence and technology (STIRPAT) model (with B. Chen). *Journal of Cleaner Production*, 2017, 306-314 (SSCI, IF="5.651," Q1)

Taking the pulse of urban economy: From the perspective of systems ecology. *Ecological Modelling*, 2015, 318: 36-48. (SSCI, IF="2.507," Q3)

Emergy-based hybrid evaluation for commercial construction engineering: A case study in BDA (With M.Y. Han et al.). *Ecological Indicators*, 2014, 47: 179-188. (SCI, IF="3.983," Q2)

Ecological accounting and evaluation of urban economy: taking Beijing city as the case. *Communications in Nonlinear Science and Numerical Simulation*, 2011, 16(3): 1650-1669. (SSCI, IF="3.181," Q2)

Unified account of gas pollutants and greenhouse gas emissions: Chinese transportation 1978-2004 (with G.Q. Chen). *Communications in Nonlinear Science and Numerical Simulation*, 2010. 15(9): 2710-2722. (SSCI, IF="3.181," Q2)

Cosmic emergy based ecological systems modelling (with H. Chen et al.). *Communications in Nonlinear Science and Numerical Simulation*, 2010. 15(9): 2672-2700. (SSCI, IF="3.181," Q2)

Exergy-based assessment for waste gas emissions from Chinese transportation (with G.Q. Chen et al.). *Energy Policy*, 2009. 37(6): 2231-2240. (SSCI, IF="4.039," Q1)

Urban dynamics and multiple-objective programming: A case study of Beijing (with X.H. Yuan et al.). *Communications in Nonlinear Science and Numerical Simulation*, 2008. 13(9): 1998-2017. (SSCI, IF="3.181," Q2)

Exergy analysis of energy utilization in the transportation sector in China (with G.Q. Chen). *Energy Policy*, 2006. 34 (14): 1709-1719. (SSCI, IF="4.039," Q1)

Local-scale systems input-output analysis of embodied water for the Beijing economy in 2007 (with M. Han et al.). *Frontier of Earth Science*, 2014, 8(3): 414-426. (SSCI, IF="1.096)

Embodied energy consumption and carbon emissions evaluation for urban industrial structure optimization (with Z. Chen et al.). *Frontier of Earth Science*, 2014, 8(1): 32-43. (SSCI, IF="1.096)

Embodied water analysis for Hebei Province, China by input-output modelling (with S.Y. Liu). *Frontiers of Earth Science*. 2018, 72-85 (SSCI, IF="1.096)

Alternative Industrial Carbon Emissions Benchmark Based on Input-Output Analysis (With M.Y. Han). *Frontiers of Earth Science*, 2016, 10 (4) :731-739. (SSCI, IF="1.096)

As co-author

Evaluating the transition towards cleaner production in the construction and demolition sector of China: A review (with P. Ghisellini et al.). *Journal of Cleaner Production*. 2018, 195: 418-434. (SSCI, IF="5.651," Q1)

Embodied greenhouse gas emission by Macao (with J.S. Li et al.) *Energy Policy*, 2013. 59: 819-833. (SSCI, IF="4.039," Q1)

Environmental emissions by Chinese industry: Exergy-based unifying assessment (with B. Zhang et al.). *Energy Policy*, 2012. 45: 490-501. (SSCI, IF="4.039," Q1)

Embodied water for urban economy: A three-scale input–output analysis for Beijing 2010 (With M.Y. Han et al.). *Ecological Modelling*, 2015. 318: 19-25. (SSCI, IF="2.507," Q3)

Regional study on investment for transmission infrastructure in China based on the State Grid data (With W.D. Wei et al.). *Frontiers of Earth Science*. 2017.11(1): 162-183. (SSCI, IF="1.096," Q4)

Ecological evaluation of Beijing economy based on emergy indices (with M.M. Jiang et al.). *Communications in Nonlinear Science and Numerical Simulation*, 2009.14(5): 2482-24. (SSCI, IF="3.181," Q2)

Exergetic evaluation of corn-ethanol production in China (with Q.Yang et al.). *Communications in Nonlinear Science and Numerical Simulation*, 2009. 14 (5): 2450-2461. (SSCI, IF="3.181," Q2)

Exergetic assessment for ecological economic system: Chinese agriculture (with G.Q. Chen et al.). *Ecological Modelling*, 2009, 220(3): 397-410. (SSCI, IF="2.507," Q3)

Chemical exergy based evaluation of water quality (with G.Q. Chen). *Ecological Modelling*, 2007, 200 (1-2): 259-268. (SSCI, IF="2.507," Q3)

Publications in Chinese

Study on the Framework of Mineral Resource Balance Sheet (with Y. Liu). *Resources and Environment*. 2016.3.

Carbon finance innovation and “low carbon poverty alleviation” (with X. Wang). *Issues in agricultural economy* (1), 2012, 79-88.

Research on Public Policies for Pro-poor Growth (the 6th chapter) (with X. Wang). *Social sciences academic press* (China), 2012.

Cities, population and the environment (with M. Liu). *Economic science* (1), 2011.

The trends of carbon finance over the world. *People's Daily*, 2011-11-02.

The inevitability of urbanization: from the perspective of human development (with M. Liu). *Journal of Nanjing University* (Philosophy, Humanities and social science), 2010, 47(4), 46-53.

China development report 2010. Urbanization and human development (background report). As one of the author

group.

The assessment and analysis of urban low carbon industries: taking Beijing as the case (with Z. Chen et al.). Studies on Urban and Regional Planning, 2010, 3(2).

The evolution of the environmental policy in China during the 30-year reform and opening-up (with H. Zhou). Journal of Nanjing University (Philosophy, Humanities and social science), 2009, 46(1), 31-40.

Wolf, and sheep, how to choose? People's Daily, 2008-12-21.

Urbanization and human development (with M. Liu). In the International Conference of "Urbanization and the Environment". Beijing, China.

The theory and assessment of low carbon cities (with Z. Chen et al.). In the International Conference of "Urbanization and the Environment". Beijing, China.

Urbanization and human development: international experience and the strategy in China (with M. Liu). Background report for CDRF, 2010.

Research projects

As the Principal Investigator

Optimal Scale of Urban Economy under Ecological Constraints: Theoretical Model and Practice. Natural Science Foundation of China (Grant No. 71673014) 2016.01-2020.12

New energy strategy to realize green development in rural areas. Institute for new rural development, Peking University. 2018.07-2018.12.

Marketization in Environmental Governance Key Project of the National Social Science Fund (grant no. 14AZD010) 2014.09-2018.09

The Ecological Effect of Urbanization The Research Project of Humanities and Social Sciences Funded by the Ministry of Education of PRC (grant no. 14YJAZH037) 2014.09-2017.09

Finance and Green Growth in Rural Areas Project of International Poverty Reduction Center in China 2013.08-2013.10

Land allocation and regulation technology research for industrial upgrading and structural adjustment National Science and Technology Support Program (grant no. 2013BAJ13B03) 2013.06-2015.06

Carbon Finance and Poverty Reduction Project of GIZ Germany 2011.09-2012.03

China Family Planning Project of National Population Strategy 2011.07-2012.04

Unified Accounting, Modeling and Regulation of Urban Resources, Economy and Environment. Natural Science Foundation of China (Grant No. 70903005) 2010.01-2012.12

Assessment Framework of Low Carbon Cities Research Project of Humanities and Social Sciences Funded by the Ministry of Education of PRC (Grant No. 09YJZH005) 2010.01-2012.12

The Systematical and Ecological Accounting and Regulation of China's National Economy Post Doctoral Science Foundation (the first award) (Grant No.20080440005) 2009.09-2010.07

Urban Crisis Management and Ecological Planning Specific Foundation for Post Doctor in China (Grant No. 200902016) 2009.11-2010.07

As the primary research fellow

The Effects of Environmental Pollution on Human Health: The Theory and Application Natural Science Foundation of China (Grant No.70903006) 2010.01-2012.12

The Management and Regulation of Urban Economy National Key Program for Basic Research (973 Program) (Grant No. 2005CB724204) 2005.07-2010.07

Honors and Awards:

2018.12 Teaching and Researching Award in Peking University.

Top Ten Papers Award, China Petroleum Science

2015.12 Teaching Award in Peking University.

2011.12 The Young Teacher Teaching Competition Excellence Award, Peking University

2009.12 Excellent Post Doctor, Peking university