

LAIXIANG SUN, Professor
Curriculum Vitae (March 2023)

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Present Positions

1. Professor of Geographic Economics, Department of Geographical Sciences, University of Maryland, USA.
2. Visiting Research Professor, School of Finance & Management, SOAS University of London, UK.

Major Honors

- Fellow (Academician) of the Academy of Social Sciences, the UK, since February 2010.
- Short-listed (top-five) candidate for the 2019 Newton Prize, the UK.
- Awarded the title of “Outstanding Overseas Chinese Scholar” by China Academy of Sciences in June 2005.
- Sun Yefang Prize of Economics in 1988, awarded by Association of Chinese Economists (the highest annual award for economists in China), shared with other Core Team Members of the Project on “Reform Program of China's Economic System in 1988-95,” State Reform Commission, Beijing, China.

Professional Services

- Associate Editor-in-chief, *Advances in Climate Change Research* (2021 IF: 4.746), July 2022-present.
- Associate Editor, *Cleaner Production Letters*, June 2020-Present.
- Co-Editor, *Journal of Chinese Economic and Business Studies*, July 2008-Dec 2013.
- Editorial Board Member:
 - Management Decision* (2021 IF: 5.598), July 2012-Present.
 - Energy, Ecology and Environment* (E3), Nature-Springer, 2015-Present.
 - Journal of Chinese Economic and Business Studies*, July 2008-Present.
 - Journal of Resources and Ecology*, Jan. 2010-Present.
 - China Quarterly* (2021 IF 2.231), Feb. 2004-Jan. 2014, member of the Executive Committee Jan. 2005-Jan. 2014.
 - Journal of Comparative Economics* (top journal in Comparative Economics; 2021 IF: 2.429), Jan. 2003 to Dec. 2005.
- President (for 2012-13), President elected (2011-12), and Member of the Board of Directors (2010-14), Chinese Economist Association (UK/Europe).
- Expert Advisor, Shenzhen Institute of Sustainable Development, since January 2019.
- Executive Chairman of the Academic Committee, Shanghai Climate Change Research Centre, Shanghai Meteorological Bureau, Shanghai, China, 2013-2020.

- Research Associate, China Growth Centre at St Edmund Hall, University of Oxford, 2010-2012.
- Referee services: National Science Foundation USA, US Department of Agriculture; Royal Society, Economic & Social Research Council (ESRC), and Natural Environment Research Council (NERC) of the UK, British Academy; Netherlands Foundation for the Advancement of Tropical Research (WOTRO-NWO); Swiss National Science Foundation; National Natural Science Foundation of China (NSFC); Research Grants Council (RGC) of Hong Kong, University Grants Committee of Hong Kong; Elsevier, Oxford University Press, Cambridge University Press, Palgrave Macmillan, Pearson Education, Springer, Peter Lang Publishing; *Agricultural Systems*; *American Sociological Review*; *American Journal of Public Health*; *Applied Economics*; *Applied Energy*; *Applied Financial Economics*; *Applied Geography*; *Advances in Climate Change Research*; *Biomass and Bioenergy*; *Cambridge Journal of Economics*; *China: An International Journal*; *China Economic Review*; *China Journal*; *China Quarterly*; *Climate Policy*; *Cities*; *Communications Earth & Environment*; *Computers and Electronics in Agriculture*; *Development and Change*; *Ecological Economics*; *Ecological Modelling*; *Economica*; *Economic Systems*; *Economic Systems Research*; *Emerging Markets Finance and Trade*; *Energy*; *Energy Economics*; *Energy Policy*; *Environmental Management*; *Environmental Science and Technology*; *Environment and Planning A*; *Environmental Sociology*; *European Journal of Development Research*; *Food Policy*; *Food Security*; *Frontiers of Earth Science*; *Geophysical Research Letters*; *Global Change Biology*; *Global Environmental Change*; *Habitat International*; *Human and Ecological Risk Assessment: An International Journal*; *International Journal of Biometeorology*; *International Journal of Sustainable Transportation*; *Journal of Applied Meteorology and Climatology*; *Journal of Business Research*; *Journal of Chinese Economic and Business Studies*; *Journal of Cleaner Production*; *Journal of Comparative Economics*; *Journal of Comparative Law*; *Journal of Current Chinese Affairs*; *Journal of Economic Behavior and Organization*; *Journal of Economics*; *Journal of Industrial Ecology*; *Journal of Environmental Planning and Management*; *Journal of International Business Studies*; *Journal of Peking University*; *Journal of Resources and Ecology*; *Journal of Rural Studies*; *Land Use Policy*; *Leadership*; *Management Decision*; *Nature Climate Change*; *Nature Food*; *Natural Resources Forum*; *Ocean & Coastal Management*; *One Earth*; *Papers in Regional Science*; *Plos ONE*; *PNAS*; *PNAS Nexus*; *Population and Environment*; *Problems and Perspectives in Management*; *Regional Study*; *Renewable & Sustainable Energy Reviews*; *Resources, Conservation & Recycling*; *Risk Analysis*; *Science of the Total Environment*; *Scientific Data*; *Social Forces*; *Spatial Economic Analysis*; *Structural Change and Economic Dynamics*; *Sustainable Development*; *Trends in Ecology & Evolution (Cell Press)*; *Water*; *Water Research*; *World Development*.
- News commentaries: *The Economist*, BBC News 24 (TV), BBC World News and BBC World Service (TV and radio), CNN (TV), Al Jazeera (English TV Channel), ITV News, Phoenix TV

(Chinese), France24, China Daily Europe, CNBC Europe and CNBC World, Radio France Internationale.

Education

- Sep. 1978 - July 1982: BSc. study at Department of Mathematics, Peking University, Beijing, China, with Distinction.
- Sep. 1982 - July 1985: MSc. study at Department of Mathematics, Peking University, Beijing, China.
- Apr. 1992 - Apr. 1997: Ph.D. study in Economics at the International Institute of Social Studies of the Erasmus University Rotterdam in The Hague, The Netherlands, and a holder of Fellowship of Dutch Government.

Job History

- Senior (Visiting) Economist (Aug 2001-March 2020), Economist (Apr. 1997-July 2001), International Institute for Applied System Analysis (IIASA), Laxenburg, Austria.
- Chair Professor (Aug 2003-Dec 2013), Head of Department (2004-2005; 2008-2012), Lecture (Aug 2001-July 2003), Department of Financial & Management Studies (DeFiMS), SOAS University of London, UK.
- Project Director, United Nations University, World Institute for Development Economics Research (UNU/WIDER), Helsinki, Finland, Jan. 2000-Dec. 2002.
- Senior Research Fellow at Research Center for Social Development of Contemporary China, Peking University, Beijing, China, Feb. 1989-Oct. 1991.
- Lecturer (Aug. 1985-Oct. 1991), Associate Chair (May 1986-Oct 1991), Department of Economic Management (Guanghua School of Management, since 1995), Peking University, Beijing, China.

Main Publications and Project Reports

¹Primary, lead or co-lead contributor, ²Principal contributor and corresponding author, ³Principal contributor, ⁴Contributor, *Author who was a graduate student at time article was written.

Articles published in International Refereed Journals

1. Wang, Hetong*, Kuishuang Feng, Peng Wang, Yuyao Yang, Laixiang Sun², Weiqiang Chen, Yiyi Zhang, Jiashuo Li. 2023. China's electric vehicle and climate ambitions jeopardized by surging critical material prices. *Nature Communications* (2021 IF: 17.69). Published online on 4 March 2023. <https://doi.org/10.1038/s41467-023-36957-4>.
2. Liang, Zhuoran, Laixiang Sun¹, Zhan Tian, Günther Fischer, Huimin Yan. 2023. Increase in grain production potential of China under climate change. *Proceedings of the National Academy of Sciences of the USA (PNAS) Nexus*. Published online 14 March 2023. <https://doi.org/10.1093/pnasnexus/pgad057>.
3. Hu, Guangxiao*, Kuishuang Feng, Laixiang Sun². 2023. "A multiscale analysis of the relationship between toxic chemical hazard risks and racial/ethnic, socioeconomic groups in Texas, USA". *Environmental Science & Technology* (2021 IF: 11.357). Vol. 57, Issue 5, pp. 2019–2030. <https://doi.org/10.1021/acs.est.2c04302>.

4. Tian, Zhan, David Ramsbottom, Laixiang Sun², Yijing Huang*, Huan Zou, Junguo Liu. 2023. “Dynamic adaptive engineering pathways for mitigating flood risks in Shanghai with regret theory.” *Nature Water*, Vol.1, issue 2, pp. 198–208. <https://doi.org/10.1038/s44221-022-00017-w>.
5. Hu, Guangxiao*, Kuishuang Feng, Laixiang Sun³, Giovanni Baiocchi. 2023. Tracing toxic chemical releases embodied in U.S. interstate trade and their unequal distribution. *Environment International* (2021 IF: 13.352), Vol. 171, article no. 107681. <https://doi.org/10.1016/j.envint.2022.107681>.
6. Olschewski, Patrick*, Patrick Laux, Jianhui Wei, Brian Böker, Zhan Tian, Laixiang Sun⁴, and Harald Kunstmann. 2023. “An ensemble-based assessment of bias adjustment performance, changes in hydrometeorological predictors and compound extreme events in EAS-CORDEX.” *Weather and Climate Extremes* (2021 IF: 7.761), Vol 39, article no. 100531. <https://doi.org/10.1016/j.wace.2022.100531>.
7. Zhang, P.*, X. Zhao, L. Sun³, J. Zuo, W. Wei, X. Liu, X. Peng, Y. Shan, S. Li, L. Ge, J. Li, K. Feng. 2023. “What can we learn from the 2008 financial crisis for global power decarbonization after COVID-19?” *Fundamental Research*. Available online 14 March 2023. <https://doi.org/10.1016/j.fmre.2023.02.017>.
8. Xin, Yu*, Laixiang Sun², Matthew Hansen. 2022. “Oil palm reconciliation in Indonesia: balancing rising demand and environmental conservation towards 2050.” *Journal of Cleaner Production* (2021 IF: 11.072), Vol. 380, article no. 135087. <https://doi.org/10.1016/j.jclepro.2022.135087>.
9. Song, Kaihui*, Giovanni Baiocchi, Kuishuang Feng, Klaus Hubacek, Laixiang Sun³, Daoping Wang, Dabo Guan. 2022. “Can U.S. multi-state climate mitigation agreements work? A perspective from embedded emission flows.” *Global Environmental Change* (2021 IF: 11.16), Vol. 77, article no. 102596. <https://doi.org/10.1016/j.gloenvcha.2022.102596>.
10. Qi, Xinxian*, Kuishuang Feng, Laixiang Sun², Dandan Zhao, Xianjin Huang. 2022. “Rising agricultural water scarcity in China is driven by expansion of irrigated cropland in water scarce regions.” *One Earth* (2021 IF: 14.944), Vol. 5, pp. 1139–1152. <https://doi.org/10.1016/j.oneear.2022.09.008>.
11. Song, Kaihui*, Giovanni Baiocchi, Kuishuang Feng, Klaus Hubacek, Laixiang Sun³. 2022. “Unequal household carbon footprints in the peak-and-decline pattern of U.S. greenhouse gas emissions.” *Journal of Cleaner Production* (2021 IF: 11.072), Vol. 368, article no. 132650, pp. 1-15. <https://doi.org/10.1016/j.jclepro.2022.132650>.
12. Kumar, Ipsita*, Kuishuang Feng, Laixiang Sun³, Varaprasad Bandaru. 2022. “Adoption of biomass for electricity generation in Thailand: Implications for energy security, employment, environment, and land use change.” *Renewable Energy* (2021 IF: 8.634). Vol. 195, pp. 1454-1467. <https://doi.org/10.1016/j.renene.2022.05.162>.
13. Cao, Y., S. Liang, L. Sun³, J. Liu, X. Cheng, D. Wang, Y. Chen, M. Yu, K. Feng. 2022. “Trans-Arctic shipping routes expanding faster than the model projections.” *Global Environmental Change* (2021 IF: 11.16). Vol. 73, article no. 102488. <https://doi.org/10.1016/j.gloenvcha.2022.102488>.
14. Funes, Jose*, Laixiang Sun³, Todd Benson, Fernando Sedano, Giovanni Baiocchi. 2022. “Social Interaction and Geographic Diffusion of Iron Biofortified Beans in Rwanda”, *Agricultural Economics* (2021 IF: 3.887). Vol. 53, Issue 4, pp. 503-528. <https://doi.org/10.1111/agec.12722>.
15. Xu, H.*, Z. Tian, L. Sun³, Q. Ye, E. Ragno, J. Bricker, G. Mao, J. Tan, J. Wang, Q. Ke, S.

- Wang, R. Toumi 2022. “Compound flood impact of water level and rainfall during tropical cyclone period in a coastal city: The case of Shanghai.” *Natural Hazards and Earth System Sciences* (2021 IF: 4.345). Vol. 22, issue 7, pp. 2347–2358. <https://doi.org/10.5194/nhess-2022-26>.
16. Khan Ibraheem M.P.*, Klaus Hubacek, Kaye L. Brubaker, [Laixiang Sun](#)⁴, Glenn Moglen. 2022. “Stormwater management adaptation pathways under climate change and urbanization.” *Journal of Sustainable Water in the Built Environment* (2021 IF: 2.45). 8(4): 04022009. DOI: 10.1061/JSWBAY.0000992.
 17. Tian, Z., X. Lyu, H. Zou, H. Yang, [L. Sun](#)³, M. S. Pinya, Q. Chao, A. Feng, B. Smith. 2022. “Advancing index-based climate risk assessment to facilitate adaptation planning: Application in Shanghai and Shenzhen, China.” *Advances in Climate Change Research* (2021 IF: 4.746). Vol. 13, Issue 3, pp. 432-442. <https://doi.org/10.1016/j.accre.2022.02.003>.
 18. Zhao, Danyang*, Kuishuang Feng, [Laixiang Sun](#)³, Giovanni Baiocchi, Haiting Liu. 2022. “Environmental Implications of Economic Transformation in China’s Pearl River Delta Region: Dynamics at four nested geographical scales over 1987-2017.” *Science of the Total Environment* (2021 IF: 10.753). Vol. 816, article no. 151631. <https://doi.org/10.1016/j.scitotenv.2021.151631>.
 19. He, Pan*, Kuishuang Feng, Giovanni Baiocchi, [Laixiang Sun](#)³, Klaus Hubacek. 2021. “Shifts towards healthy diets in the US can reduce environmental impacts but would be unaffordable for poorer minorities.” *Nature Food* (2021 IF: 20.43). Vol. 2, pp. 664–672. DOI: 10.1038/s43016-021-00350-5.
 20. Zhao, Dandan, Junguo Liu, Hong Yang, [Laixiang Sun](#)³, Olli Varis. 2021. Socioeconomic drivers of provincial-level changes in the blue and green water footprints in China. *Resources, Conservation & Recycling* (2021 IF: 13.716). Vol. 175, article no. 105834. <https://doi.org/10.1016/j.resconrec.2021.105834>.
 21. Fan, D., Y. Fan*, Z. Tian, X. Li, M. Jiang, [L. Sun](#)², H. Zhong, K. Wang, X. Wang, L. Jiang. 2021. A vital option for food security and greenhouse gases mitigation: planting elite super rice in double-to single-rice cropping fields in China. *Environmental Research Letters* (2021 IF: 6.947). Vol. 16, article no. 094038. <https://doi.org/10.1088/1748-9326/ac1e3e>.
 22. Fan, Dongli, Zhiyu Jiang*, Zhan Tian, Guangtao Dong, [Laixiang Sun](#)². 2021. The effects of climate change on Chinese Medicinal Yam over North China under the high-resolution PRECIS projection. *Earth and Space Science* (2021 IF = 3.68), Vol. 8, Issue 8, article no. e2021EA001804. <https://doi.org/10.1029/2021EA001804>.
 23. Ke, Q., J. Yin*, J. D. Bricker, N. Savage, E. Buonomo, Q. Ye, P. Visser, G. Dong, S. Wang, Z. Tian, [L. Sun](#)⁴, R. Toumi, S N. Jonkman. 2021. “An integrated framework of coastal flood modelling under the failures of sea dikes: a case study in Shanghai.” *Natural Hazards* (2021 IF: 3.158; 5-yr IF: 3.685), Vol. 109, pp. 671–703. <https://doi.org/10.1007/s11069-021-04853-z>.
 24. Zhao, Dandan*, Junguo Liu, [Laixiang Sun](#)², Bin Ye, Klaus Hubacek, Kuishuang Feng, Olli Varis. 2021. “Quantifying economic-social-environmental trade-offs and synergies of water-supply constraints: An application to the capital region of China.” *Water Research* (2021 IF: 13.4), Vol. 195, article no. 116986. <https://doi.org/10.1016/j.watres.2021.116986>.
 25. Zhang, Y., X. Li, S. Wang; Y. Yao, Q. Li, W. Tu, H. Zhao, H. Zhao, K. Feng, [L. Sun](#)⁴, K. Hubacek. 2021. “A global North-South division line for portraying urban development.” *iScience* (2021 IF: 6.107; 5-yr IF: 6.233), Vol. 24, Issue 7, article no. 102729, <https://doi.org/10.1016/j.isci.2021.102729>.

26. Wang, S., R. Toumi, Q. Ye, Q. Ke, J. Bricker, Z. Tian, L. Sun⁴. 2021. “Is the tropical cyclone surge in Shanghai more sensitive to landfall location or intensity change?” *Atmospheric Science Letters* (2021 IF: 2.992), Vol. 22, Issue 10, e1058. <https://doi.org/10.1002/asl.1058>.
27. Lamb, W.F., T. Wiedmann, J. Pongratz, ..., K. Hubacek, L. Sun⁴, ..., J. Minx. 2021. “A review of trends and drivers of greenhouse gas emissions by sector from 1990 to 2018.” *Environmental Research Letters* (2021 IF: 6.947), Vol. 16, article no. 073005, pp. 1-31. <https://doi.org/10.1088/1748-9326/abee4e>.
28. Zhong, Honglin, Kuishuang Feng, Laixiang Sun³, Zhan Tian, Gunther Fischer, Li Cheng, Raul Munoz Castillo. 2021. “Water-land Tradeoffs to Meet Future Demands for Sugar Crops in Latin America and the Caribbean: A Bio-physical and Socio-economic Nexus Perspective.” *Resources, Conservation & Recycling* (2021 IF: 13.716). Vol. 169, article no. 105510. <https://doi.org/10.1016/j.resconrec.2021.105510>.
29. Tian, Zhan, Yidan Fan*, Kai Wang, Honglin Zhong, Laixiang Sun², Dongli Fan, Francesco N. Tubiello, Junguo Liu. 2021. “Searching for ‘Win-Win’ Solutions for Food-Water-GHG Emissions Tradeoffs across Irrigation Regimes of Paddy Rice in China.” *Resources, Conservation & Recycling* (2021 IF: 13.716). Vol. 166, article no. 105360. <https://doi.org/10.1016/j.resconrec.2020.105360>.
30. Xin, Yu*, Laixiang Sun², Matt Hansen. 2021. “Biophysical and socioeconomic drivers of oil palm expansion in Indonesia.” *Environmental Research Letters* (2021 IF: 6.947). Vol. 16 article no. 034048, pp-1-17. <https://doi.org/10.1088/1748-9326/abce83>.
31. Tian, Zhan, Yinghao Ji*, Hanqing Xu*, Huanguang Qiu, Laixiang Sun², Honglin Zhong, Junguo Liu. 2021. “The potential contribution of growing rapeseed in winter fallow fields across Yangtze River Basin to energy and food security in China.” *Resources, Conservation & Recycling* (2021 IF: 13.716). Vol. 164, article no. 105159. <https://doi.org/10.1016/j.resconrec.2020.105159>.
32. Teodoro, Jose Daniel*, Christina Prell, Laixiang Sun³. 2021. “Quantifying stakeholder learning in climate change adaptation across relational and participatory networks.” *Journal of Environmental Management* (2021 IF = 8.91), Vol. 278, article no. 111508. <https://doi.org/10.1016/j.jenvman.2020.111508>.
33. Zhou, Hong, Jianzhong Yan, Kun Lei, Ya Wu, Laixiang Sun². 2020. “Labor migration and the decoupling of the crop-livestock system in a rural mountainous area: Evidence from Chongqing, China.” *Land Use Policy* (2021 IF: 6.189). Vol. 99, article no. 105088. <https://doi.org/10.1016/j.landusepol.2020.105088>.
34. Solé, V., R. Samsó, E. García-Ladona, ... L. Sun⁴, M. Theofilidi. 2020. “Modelling the Renewable Transition: scenarios and pathways for a decarbonized future using pymedeas, a new open-source energy systems model.” *Renewable and Sustainable Energy Reviews* (2021 IF: 16.799), Vol. 132, article no. 110105. <https://doi.org/10.1016/j.rser.2020.110105>.
35. Kumar, Ipsita*, Varaprasad Bandaru, Sukunya Yampracha, Laixiang Sun³. 2020. “Limiting Rice and Sugarcane Residue Burning in Thailand: Current Status, Challenges and Strategies.” *Journal of Environmental Management* (2021 IF = 8.91), Vol. 276, article no. 111228. <https://doi.org/10.1016/j.jenvman.2020.111228>.
36. Zhong, Honglin, Kuishuang Feng, Laixiang Sun³, Li Cheng, Klaus Hubacek. 2020. “Household carbon-energy inequality in Latin America and the Caribbean.” *Journal of Environmental Management* (2021 IF = 8.91), Vol. 273, article no. 110979. <https://doi.org/10.1016/j.jenvman.2020.110979>.
37. Dong, Guangtao, Zhiyu Jiang*, Zhan Tian, Erasmo Buonomo, Laixiang Sun², Dongli Fan.

2020. “Projecting Changes in Mean and Extreme Precipitation over Eastern China during 2041-2060.” *Earth and Space Science* (2021 IF = 3.68), Vol. 7, article no. e2019EA001024. <https://doi.org/10.1029/2019EA001024>.
38. Huang, Yijing*, Zhan Tian, Qian Ke, Junguo Liu, Masoud Irannezhad, Dongli Fan, Meifang Hou, Laixiang Sun⁴. 2020. “Nature-Based Solutions for Urban Pluvial Flood Risk Management.” *WIREs Water* (2021 IF: 7.428), Vol. 7, No. 3, Cover Paper, e1421, pp. 1-17.
39. Jiang, Zhiyu*, Zhan Tian, Guangtao Dong, Laixiang Sun³, Peiqun Zhang, Erasmo Buonomo, Dongli Fan. 2020. “High-Resolution Projections of Mean and Extreme Precipitation over China by Two Regional Climate Models.” *Journal of Meteorological Research* (2021 IF = 2.569; 5-yr IF = 2.704), 34 (5), 1–22. DOI: 10.1007/s13351-020-9208-5.
40. Stubbs, Q.*, Yeo, I.-Y., Lang, M., Townshend, J., Sun, L.⁴, Presteggaard, K., Jantz, C., 2020. Assessment of wetland change on the Delmarva Peninsula from 1984 to 2010. *Journal of Coastal Research* (2021 IF = 1.11), vol. 36, no. 3, pp. 575–589. <https://doi.org/10.2112/JCOASTRES-D-16-00038.1>.
41. Liu, Xiaochen, Zhan Tian, Laixiang Sun², Junguo Liu, Wei Wu, Hanqing Xu, Landong Sun, Chunfang Wang. 2020. “Mitigating Heat-Related Mortality Risk in Shanghai, China: System Dynamics Modeling Simulations.” *Environmental Geochemistry and Health* (2021 IF: 4.898; 5-yr IF: 4.932), Vol. 42, pp. 3171–3184. <https://doi.org/10.1007/s10653-020-00556-9>.
42. Fan, Dongli, Honglin Zhong, Biao Hu*, Zhan Tian, Laixiang Sun², Günther Fischer, Xiangyi Wang*, Zhiyu Jiang*. 2020. “Agro-Ecological Suitability Assessment of Chinese Medicinal Yam under Future Climate Change.” *Environmental Geochemistry and Health* (2021 IF: 4.898; 5-yr IF: 4.932), Vol. 42, No. 3, pp. 987-1000 (Open-access). <https://doi.org/10.1007/s10653-019-00437-w>.
43. Tian, Z., H. Xu*, L. Sun², D. Fan, G. Fischer, H. Zhong, P. Zhang, E. Pope, C. Kent, W. Wu. 2020. “Using a cross-scale simulation tool to assess future maize production under multiple climate change scenarios: An application to the Northeast Farming Region of China.” *Climate Services* (2020 IF: 5.656). vol. 18, article no. 100150, pp. 1-9. <https://doi.org/10.1016/j.cliser.2020.100150>.
44. Hu, Hengzhi*, Zhan Tian, Laixiang Sun², Jiahong Wen, Zhuoran Liang, Guangtao Dong, Junguo Liu. 2019. “Synthesized trade-off analysis of flood control solutions under future deep uncertainty: An application to the central business district of Shanghai.” *Water Research* (2021 IF: 13.4), vol. 166, article no. 115067. <https://doi.org/10.1016/j.watres.2019.115067>.
45. Ying, Qing*, Matthew C. Hansen, Laixiang Sun³, Lei Wang, Marc Steininger. 2019. “Satellite-detected gain in built-up area as a leading economic indicator.” *Environmental Research Letters* (2021 IF: 6.947), vol. 14, article no. 114015. <https://doi.org/10.1088/1748-9326/ab443e>.
46. Liu, Xiaoping, Shaojian Wang, Peijun Wu, Kuishuang Feng, Klaus Hubacek, Xia Li, Laixiang Sun². 2019. “Impacts of Urban Expansion on Terrestrial Carbon Storage in China.” *Environmental Science and Technology* (2021 IF: 11.357), Vol. 53, pp. 6834–6844. DOI: 10.1021/acs.est.9b00103.
47. Zhao, Dandan*, Klaus Hubacek, Kuishuang Feng, Laixiang Sun³, Junguo Liu. 2019. “Explaining the virtual water trade: A spatial-temporal analysis of the comparative advantage of land, labor and water in China.” *Water Research* (2020 IF: 11.236), Vol. 153, pp. 304-314. <https://doi.org/10.1016/j.watres.2019.01.025>.
48. Zhong, Honglin*, Laixiang Sun², Günther Fischer, Zhan Tian, Zhuoran Liang. 2019. “Optimizing regional cropping systems with a dynamic adaptation strategy for water

- sustainable agriculture in the Hebei Plain.” *Agricultural Systems* (2021 IF: 6.765), Vol. 173, pp. 94–106. <https://doi.org/10.1016/j.agsy.2019.02.005>.
49. Munoz Castillo, Raul*, Kuishuang Feng, [Laixiang Sun](#)³, Joaquim Guilhoto, Stephan Pfister, Fernando Miralles-Wilhelm, Klaus Hubacek. 2019. “The land-water nexus of biofuel production in Brazil: analysis of synergies and trade-offs using a multiregional input-output model.” *Journal of Cleaner Production* (2021 IF: 11.072), vol. 214, pp. 52-61. <https://doi.org/10.1016/j.jclepro.2018.12.264>.
 50. Xu, Hanqing*, Zhan Tian, Xiaogang He, Jun Wang, [Laixiang Sun](#)², Günther Fischer, Dongli Fan, Honglin Zhong, Wei Wu, Edward Pope, Chris Kent, Junguo Liu. 2019. “Future increases in irrigation water requirement challenge the water-food nexus in the Northeast Farming Region of China.” *Agricultural Water Management* (2021 IF: 6.611), Vol. 213, pp. 594-604. <https://doi.org/10.1016/j.agwat.2018.10.045>.
 51. Wang, Shaojian, Chuanglin Fang, [Laixiang Sun](#)³, Yongxian Su, Xiuzhi Chen, Chunshan Zhou, Kuishuang Feng, and Klaus Hubacek. 2019. “Decarbonizing China’s Urban Agglomerations.” *Annals of the American Association of Geographers* (2020 IF: 4.683, ranking 16th out of 85 geography journals worldwide), Vol. 109, Issue. 1, pp. 266-285. DOI: 10.1080/24694452.2018.1484683.
 52. Sun, Landong, Zhan Tian, Huan Zou, Lanzhu Shao, [Laixiang Sun](#)³, Guangtao Dong, Dongli Fan, Xinxing Huang, Laura Frost, and Lewis-Fox James. 2019. “An Index-Based Assessment of Perceived Climate Risk and Vulnerability for the Urban Cluster in the Yangtze River Delta Region of China.” *Sustainability* (2021 IF: 3.889; 5-Yr IF: 4.089), Vol. 11, 2099; doi:10.3390/su11072099.
 53. Luan, Yibo*, Günther Fischer, Yoshihide Wada, [Laixiang Sun](#)³, and Peijun Shi. 2018. “Quantifying the impact of diet quality on hunger and undernutrition.” *Journal of Cleaner Production* (2021 IF: 11.072), Vol. 205, pp. 432-466. <https://doi.org/10.1016/j.jclepro.2018.09.064>.
 54. Li, Xiaoying, Yin-Fang Zhang, and [Laixiang Sun](#)³. 2018. “Industry agglomeration, sub-national institutions and the profitability of foreign subsidiaries.” *Management International Review* (2021 IF: 4.492; 5-yr IF: 5.149). Vol. 58, Issue 6, pp 969–993. <https://doi.org/10.1007/s11575-018-0361-3>.
 55. Li, Shengfa*, Xiubin Li, [Laixiang Sun](#)³, Guiying Cao, Günther Fischer, Sylvia Tramberend. 2018. “An Estimation of the Extent of Cropland Abandonment in Mountainous Regions of China.” *Land Degradation & Development* (2020 IF: 4.977), Vol. 29, Issue 5, pp. 1327-1342. DOI: 10.1002/ldr.2924.
 56. White, David J.*, Klaus Hubacek, Kuishuang Feng, [Laixiang Sun](#)³, Bo Meng. 2018. “The Water-Energy-Food Nexus in East Asia: A Tele-connected Value Chain Analysis Using Inter-Regional Input-Output Analysis.” *Applied Energy* (2021 IF: 11.446), Vol. 210, pp. 550-567. <http://dx.doi.org/10.1016/j.apenergy.2017.05.159>.
 57. Tian, Zhan, Yilong Niu*, Dongli Fan, [Laixiang Sun](#)², Gunther Fischer, Honglin Zhong, Jia Deng, Francesco N. Tubiello. 2018. “Maintaining Rice Production while Mitigating Methane and Nitrous Oxide Emissions from Paddy Fields in China: Evaluating Tradeoffs by Using Coupled Agricultural Systems Models.” *Agricultural Systems* (2020 IF: 5.37), vol. 159, pp. 175–186. <https://doi.org/10.1016/j.agsy.2017.04.006>.
 58. Tian, Zhan, Yinghao Ji*, [Laixiang Sun](#)³, Xinliang Xu, Dongli Fan, Honglin Zhong*, Zhuoran Liang, Gunther Ficsher. 2018. “Changes in production potentials of rapeseed in the Yangtze River Basin of China under climate change: A multi-model ensemble approach.” *Journal of*

- Geographical Sciences* (2021 IF: 4.012; 5-yr IF: 4.403), Vol. 28, No. 11, pp. 1700-1714. DOI: <https://doi.org/10.1007/s11442-018-1538-1>.
59. Zhong, Honglin*, Laixiang Sun², Günther Fischer, Zhan Tian, Harrij van Velthuizen, Zhuoran Liang. 2017. “Mission Impossible? Maintaining regional grain production level and recovering local groundwater table by cropping system adaptation across the North China Plain.” *Agricultural Water Management* (2021 IF: 6.611), Vol. 193, pp. 1-12. <https://doi.org/10.1016/j.agwat.2017.07.014>.
 60. Munoz Castillo, Raul*, Kuishuang Feng, Klaus Hubacek, Laixiang Sun³, Joaquim Guilhoto, Fernando Miralles-Wilhelm. 2017. “Uncovering the Green, Blue and Grey Water Footprint and Virtual Water of Biofuel Production in Brazil, a Nexus perspective.” *Sustainability* (2021 IF: 3.889; 5-Yr IF: 4.089), Vol. 9, no. 2049, pp. 1-18. DOI: 10.3390/su9112049.
 61. Hubacek, Klaus, Giovanni Baiocchi, Kuishuang Feng, Raúl Muñoz Castillo*, Laixiang Sun³ and Jinjun Xue. 2017. “Global carbon inequality.” *Energy, Ecology and Environment*, Vol. 2, no. 6, pp. 361–369. DOI: 10.1007/s40974-017-0072-9.
 62. Yang, Xuan*, Zhan Tian, Laixiang Sun², Baode Chen, Francesco N. Tubiello. 2017. “The impacts of increased heat stress events on wheat yield under climate change in China.” *Climatic Change* (2021 IF: 5.174; 5-yr IF: 6.058), vol. 140, no. 3, pp 605–620. DOI: 10.1007/s10584-016- 1866-z.
 63. Prell, Christina, Laixiang Sun³, Kuishuang Feng, Klaus Hubacek. 2017. “Uncovering the Spatially Distant Feedback Loops of Global Trade: A Network and Input-Output Approach.” *Science of the Total Environment* (2021 IF: 10.753), vol. 586, pp. 401-408. <http://dx.doi.org/10.1016/j.scitotenv.2016.11.202>.
 64. Li, Xiaoying and Laixiang Sun³. 2017. “How Do Sub-National Institutional Constraints Impact Foreign Firm Performance?” *International Business Review* (2021 IF: 8.047), vol. 26, no. 3, pp. 555–565. <http://dx.doi.org/10.1016/j.ibusrev.2016.11.004>.
 65. Sun, Laixiang¹, In Hyeock Lee, Eunsuk Hong. 2017. “Does Foreign Direct Investment Stimulate New Firm Creation? In Search of Spillovers through Industrial and Geographical Linkages.” *Small Business Economics: An Entrepreneurship Journal* (2021 IF: 7.096; 5-yr IF: 8.081), Vol. 48, No. 3, pp. 613–631. DOI: 10.1007/s11187-016-9803-0.
 66. Fan, Dongli, Qiuying Ding*, Zhan Tian, Laixiang Sun³, Guenther Fischer. 2017. A Cross-scale Model Coupling Approach to Simulate the Risk-reduction Effect of Natural Adaptation on Soybean Production under Climate Change. *Human and Ecological Risk Assessment: An International Journal* (2021 IF: 5.190), Vol. 23, No. 3, pp. 426–440. DOI: 10.1080/10807039.2016.1221308.
 67. Duarte, Rosa, Kuishuang Feng, Klaus Hubacek, Julio Sánchez-Chóliz, Cristina Sarasa*, Laixiang Sun³. 2016. “Modeling the Carbon Consequences of Pro-environmental Consumer Behavior.” *Applied Energy* (2021 IF: 11.446), Vol. 184, pp. 1207-1216. DOI:10.1016/j.apenergy.2015.09.101.
 68. Liang, Zhuoran, Zhan Tian, Laixiang Sun², Kuishuang Feng, Honglin Zhong*, Tingting Gu, Xiaochen Liu. 2016. “Heat wave, electricity rationing, and trade-offs between environmental gains and economic losses: The example of Shanghai.” *Applied Energy* (2021 IF: 11.446), Vol. 184, pp. 951-959. <http://dx.doi.org/10.1016/j.apenergy.2016.06.045>.
 69. Yang, H., S. Dobbie, J. Ramirez-Villegas, K. Feng, A. J. Challinor, B. Chen, Y. Gao, L. Lee, Y. Yin, L. Sun³, J. Watson, A.-K. Koehler, T. Fan and S. Ghosh. 2016. “Potential negative consequences of geoengineering on crop production: a study of Indian groundnut.” *Geophysical Research Letters* (2021 IF: 5.58), Vol. 43, pp. 11,786–11,795. DOI:

10.1002/2016GL071209.

70. Yan, Jianzhong, Ziyang Yang*, Zanhong Li, Xiubin Li, Liangjie Xin, [Laixiang Sun](#)³. 2016. “Drivers of cropland abandonment in mountainous areas: A household decision model on farming scale and a case study of Southwest China.” *Land Use Policy* (2021 IF: 6.189), vol. 57, pp. 459-469. DOI: 10.1016/j.landusepol.2016.06.014.
71. Feng, Kuishuang, Steven J. Davis, [Laixiang Sun](#)³, Klaus Hubacek. 2016. “Reply to ‘Reassessing the contribution of natural gas to US CO₂ emission reductions since 2007.’” *Nature Communications* (2021 IF: 14.919; 5-yr IF: 15.805), vol. 7, article 10693, doi: 10.1038/ncomms10693.
72. Yu, Yang, Kuishuang Feng, Klaus Hubacek, [Laixiang Sun](#)³. 2016. “Global Implications of China’s Future Food Consumption.” *Journal of Industrial Ecology* (2021 IF: 7.202), vol. 20, no. 3, pp. 593-602. DOI: 10.1111/jiec.12392.
73. Tan, Minghong, Xiubin Li, Jianzhong Yan, Liangjie Xin, [Laixiang Sun](#)³. 2016. “Length of Stay in Urban Areas of Circular Migrants from the Mountainous Areas in China.” *Journal of Mountain Science* (2021 IF: 2.371; 5-yr IF: 2.496), vol. 13, no. 5, pp. 947-956. DOI: 10.1007/s11629-015-3477-y.
74. Kim, Icksoo, Eunsuk Hong, Jong Kook Shin, [Laixiang Sun](#)³. 2016. “Some Bad News is Good News for Foreign Investors: The Case of Intellectual Property Rights Infringement in China.” *Thunderbird International Business Review* (2020 IF: 2.919) vol. 58, no. 4, pp. 317-329. DOI: 10.1002/tie.21782.
75. Feng, Kuishuang, Steven J. Davis, [Laixiang Sun](#)³, Klaus Hubacek. 2015. “Drivers of the US CO₂ emissions 1997-2013.” *Nature Communications* (2021 IF: 14.919; 5-yr IF: 15.805), vol. 6, article 7714, pages 1-8. DOI: 10.1038/ncomms8714.
76. Prell, Christina, [Laixiang Sun](#)³, Kuishuang Feng, Tyler W Myroniuk. 2015. “Inequalities in Global Trade: A Cross-country Comparison of Trade Network Position, Economic Wealth, Pollution and Mortality.” *PLOS ONE* (2021 IF: 3.752), vol. 10, no. 12: E0144453. DOI: 10.1371/journal.pone.0144453.
77. Prell, Christina, [Laixiang Sun](#)³. 2015. “Unequal Carbon Exchanges: Understanding Pollution Embodied in Global Trade.” *Environmental Sociology* (2021 IF: 2.696), vol. 1, no. 4, pp. 256-267. DOI: 10.1080/23251042.2015.1114208.
78. Wang, X.*., X. Li, G. Fischer, [L. Sun](#)³, M. Tan, L. Xin, Z. Liang. 2015. “Impact of the changing area sown to winter wheat on crop water footprint in the North China Plain.” *Ecological Indicators* (Elsevier. 2021 IF: 6.263), vol. 57, pp. 100-109. <http://dx.doi.org/10.1016/j.ecolind.2015.04.023>.
79. Hong, Eunsuk, In Hyeock Lee, [Laixiang Sun](#)³, and Richard Harrison. 2015. “Entrepreneurship across Time and Space: Empirical evidence from Korea.” *Small Business Economics: An Entrepreneurship Journal* (2021 IF: 7.096; 5-yr IF: 8.081), vol. 44, no. 3 (March), pp. 705–719. DOI 10.1007/s11187-014-9613-1.
80. White, David J.*, Kuishuang Feng, [Laixiang Sun](#)³, and Klaus Hubacek. 2015. “A Hydro-economic MRIO Analysis of the Haihe River Basin’s Total Water Footprint and Water Stress.” *Ecological Modelling* (2021 IF: 3.512), vol. 318 (24 Dec.), pp. 157- 167, <http://dx.doi.org/10.1016/j.ecolmodel.2015.01.017>.
81. Tian, Z., Z. Liang, [L. Sun](#)², H. Zhong*, H. Qiu, G. Fischer, S. Zhao. 2015. “Agriculture under Climate Change in China: Mitigate the Risks by Grasping the Emerging Opportunities”. *Human and Ecological Risk Assessment: An International Journal* (2021 IF: 5.190), vol. 21, no. 5, pp. 1259-1276. DOI: 10.1080/10807039.2014.955392.

82. Hua, Xiuping, Laixiang Sun³ and Tianyi Wang. 2015. “Impact of Exchange Rate Regime Reform on Asset Returns in China.” *European Journal of Finance* (Taylor & Francis; 2021 IF: 1.81), vol. 21, no. 2, pp. 147-171, DOI: 10.1080/1351847X.2013.838183.
83. Tian, Zhan, Yilong Niu*, Laixiang Sun³, Chang-sheng Li, Chunjiang Liu, Dong-li Fan. 2015. “China’s Rice Field Greenhouse Gas Emission under Climate Change based on DNDC Model Simulation.” *Chinese Journal of Applied Ecology* (2020 IF: 0.911), vol 26, no. 3, pp. 793-799.
84. Feng, Kuishuang, Klaus Hubacek, Laixiang Sun³, Zhu Liu. 2014. “Consumption-based CO2 accounting of China's megacities: the case of Beijing, Tianjin, Shanghai and Chongqing.” *Ecological Indicators* (2021 IF: 6.263), vol. 47 (Dec), pp. 26-31, <http://dx.doi.org/10.1016/j.ecolind.2014.04.045>.
85. Prell, Christina, Kuishuang Feng, Laixiang Sun³, Martha Geores, Klaus Hubacek. 2014. “The Economic Gains and Environmental Losses of US Consumption: A World-Systems and Input-Output Approach.” *Social Forces* (one of top 3 journals in Sociology, 2021 IF: 5.866, 5-Yr IF: 5.160), vol. 93, no. 1 (Sep), pp. 405-428, DOI: 10.1093/sf/sou048.
86. Feng, Kuishuang, Klaus Hubacek, Stephan Pfister, Yang Yu, Laixiang Sun³. 2014. “Virtual Scarce Water in China.” *Environmental Science and Technology* (2021 IF: 11.357), vol. 48, no. 14 (July 15), pp 7704–7713, <http://dx.doi.org/10.1021/es500502q>.
87. Tian, Zhan, Honglin Zhong*, Laixiang Sun³, Günther Fischer, Harrij van Velthuizen, Zhuoran Liang. 2014. “Improving Performance of Agro-ecological Zone (AEZ) Modeling by cross- scale Model Coupling: An Application to Japonica Rice Production in Northeast China.” *Ecological Modelling* (2021 IF: 3.512), vol. 290 (24 Oct), pp. 155-164, <http://dx.doi.org/10.1016/j.ecolmodel.2013.11.020>.
88. Qiu, Huanguang, Laixiang Sun², Xinliang Xu, Yaqing Cai. 2014. “Potentials of Crop Residues for Commercial Energy Production in China: A Geographic and Economic Analysis.” *Biomass and Bioenergy* (2021 IF: 5.774), vol. 64 (May), pp. 110-123. DOI: 10.1016/j.biombioe.2014.03.055.
89. Lee, In Hyeock, Eunsuk Hong and Laixiang Sun³. 2014. “Inward Foreign Direct Investment and Domestic Entrepreneurship: A Regional Analysis of New Firm Creation in Korea,” *Regional Studies* (Taylor & Francis. 2021 IF: 4.595), vol. 48, no 5 (May), pp. 910-922. <http://dx.doi.org/10.1080/00343404.2012.690067>.
90. Tian, Zhan, Xuchao Yang, Laixiang Sun³, Günther Fischer, Zhuoran Liang, Jie Pan. 2014. “Agroclimatic Conditions in China under Climate Change Scenarios Projected from Regional Climate Models.” *International Journal of Climatology* (2020 IF: 4.069), vol. 34, no. 9 (July), pp. 2988–3000, DOI: 10.1002/joc.3892.
91. Zhu, Quantao, Xinwang Wu and Laixiang Sun³. 2014. “A Generalized Framework for Endogenous Timing in Duopoly Games and an Application to Price-Quantity Competition.” *Journal of Economics* (Springer. 2021 IF: 1.889), vol. 112, no. 2 (June), pp. 137-164, <http://dx.doi.org/10.1007/s00712-013-0347-3>.
92. Feng, K., S.J. Davis, L. Sun³, X. Li, D. Guan, W. Liu, L. Zhu, K. Hubacek. 2013. “Outsourcing CO₂ within China.” *Proceedings of the National Academy of Sciences of the United States of America (PNAS)*, (2021 IF: 12.779), vol. 110, no. 28 (9 July), pp. 11654-11659. *Nature Climate Change* (2021 IF: 21.722; 5-yr IF: 27.170) published a commentary review for this article: “Carbon emissions in China's trade”, by Valerie J. Karplus, *Nature Climate Change* 3, 703–704. This article is collected in Dietzenbacher, E., Lahr, M. L. and Lenzen, M. (Eds.), 2020. *Recent Developments in Input-Output Analysis*, vol. II, pp. 325-

331. Edward Elgar, UK and USA, ISBN: 978 1 78643 080 9.
93. Lee, In Hyeock, Eunsuk Hong and Laixiang Sun³. 2013. “Regional Knowledge Production and Entrepreneurial Firm Creation: Spatial Dynamic Analyses.” *Journal of Business Research* (Elsevier. 2021 IF: 10.969), vol. 66, no. 10 (Oct.), pp. 2106–2115.
 94. Tian, Zhan, Honglin Zhong, Runhe Shi, Laixiang Sun³, Günther Fischer, Zhuoran Liang. 2012. “Estimating Potential Yield of Wheat Production in China Based on Cross-Scale Data-Model Fusion.” *Frontier of Earth Science* (Springer. 2021 IF: 3.661), vol. 6, no. 4 (Dec), pp. 364–372.
 95. Qiu, Huanguang, Laixiang Sun², Jikun Huang and Scott Rozelle. 2012. “Liquid Biofuels in China: Current Status, Government Policies, and Future Opportunities and Challenges,” *Renewable and Sustainable Energy Reviews* (2021 IF: 16.799), vol. 16, no. 5, pp. 3095-3104.
 96. Wu, Xinwang, Quantao Zhu and Laixiang Sun³. 2012. “On Equivalence between Cournot Competition and Kreps-Scheinkman Game,” *International Journal of Industrial Organization* (Top journal in Industrial Organization; Elsevier; 2021 IF: 1.739), vol. 30, no. 1 (Jan), pp. 116-125.
 97. Hong, Eunsuk and Laixiang Sun². 2011. “Foreign Direct Investment and Total Factor Productivity in China: A Spatial Dynamic Panel Analysis,” *Oxford Bulletin of Economics and Statistics* (Wiley. 2021 IF: 2.518; 24/125 in Statistics & Probability), vol. 73, no. 6 (Dec), pp. 771-791.
 98. Sun, Laixiang², Eunsuk Hong and Tao Li. 2010. “Incorporating Technology Diffusion, Factor Mobility and Structural Change into cross-region Growth Regression: An application to China”, *Journal of Regional Science* (2021 IF: 2.807; 137/380 in Economics), vol. 50, no. 3 (Aug), pp. 734–755.
 99. Li, Tao, Laixiang Sun², and Liang Zou. 2009. “State Ownership and Corporate Performance: A Quantile Regression Analysis of Chinese Listed Companies,” *China Economic Review* (Elsevier; 2021 IF: 4.744), vol. 20, no. 4, pp.703-716.
 100. Fischer, Günther, T. Ermolieva, Y. Ermoliv, and Laixiang Sun³. 2009. “Risk-adjusted Approaches for Planning Sustainable Agriculture”, *Stochastic Environmental Research and Risk Assessment* (Springer Berlin/Heidelberg; 2021 IF: 3.821), vol. 23, no. 4, pp.441-450.
 101. Tobin, Damian and Laixiang Sun². 2009. “International Listing as a Means to Mobilize the Benefits of Financial Globalization: Micro-Level Evidence from China”, *World Development* (Top journal in Development Studies; Elsevier; 2021 IF: 6.678), vol. 37, no. 4, pp. 825–838.
 102. Pesqué-Cela, Vanesa*, Ran Tao, Yongdong Liu*, and Laixiang Sun². 2009. “Challenging, Complementing or Assuming ‘the Mandate of Heaven’? Political Distrust and the Rise of Self-Governing Social Organizations in Rural China,” *Journal of Comparative Economics* (Top journal in Comparative Economics; Elsevier; 2021 IF: 2.429), vol. 37, no. 1, pp. 151-168.
 103. Brück, Sebastian* and Laixiang Sun². 2008. “Dream of the Red Financial Supermarket: The Gradual Emergence of Integrated Financial Services Provision in China in the 21st Century”, *Journal of Chinese Economic & Business Studies* (Taylor & Francis; 2021 IF: 1.283), vol. 6, no. 4, pp. 385- 405.
 104. Brück, Sebastian* and Laixiang Sun². 2007. “Achieving Effective Governance under Divided Government and Private Interest Group Pressure: Taiwan’s 2001 Financial Holding Company Law,” *Journal of Contemporary China* (Routledge; 2021 IF: 3.748), vol. 16, no. 53, pp. 655-680.
 105. Hong, Eunsuk* and Laixiang Sun². 2006. “Dynamics of Internationalization and Outward Investment: Chinese Corporations’ Strategies”, *China Quarterly* (Top journal in Areas Studies;

- Cambridge University Press; 2021 IF: 2.231), no. 187, pp. 610-634.
106. Sun, Laixiang², and Damian Tobin*. 2005. "International Listing as a Mechanism of Commitment to More Credible Corporate Governance Practices: the case of the Bank of China (Hong Kong)", *Corporate Governance: An International Review* (Blackwell Publishing; 2020 IF: 3.396; 5-yr IF: 6.309; 29/108 in Business & Finance), vol. 13, no. 1, pp. 81-91.
 107. Hubacek, Klaus and Laixiang Sun³. 2005. "Economic and Societal Changes in China and their Effects on Water Use: A Scenario Analysis", *Journal of Industrial Ecology* (The MIT Press; 2021 IF: 7.202) vol. 9, no. 1-2, pp.187-200.
 108. Liu, Huan* and Laixiang Sun². 2004. "Beyond Phase-out of Quota in Textile and Clothing Trading: WTO-plus Rules and the Case of US Safeguards against Chinese Exports in 2003", *Asia-Pacific Development Journal* (United Nations Economic and Social Commission for Asia and the Pacific), vol. 11, no. 1, pp. 49-71.
 109. Liu, Hui*, Xiubin LI, Günther Fischer, and Laixiang Sun³. 2004. "Study on the Impact of Climate Change on China's Agriculture", *Climatic Change* (2021 IF: 5.174; 5-yr IF: 6.058), vol. 65, issue 1-2, pp. 125-148.
 110. Giljum, Stefan, Klaus Hubacek, and Laixiang Sun³. 2004. "Beyond the Simple Material Balance: A Reply to Sangwong Suh's Note on Physical Input-Output Analysis", *Ecological Economics* (2021 IF: 6.536), vol. 48, no. 1, pp. 19-22.
 111. Sun, Laixiang¹. 2002. "Adaptive Efficiency and Evolving Diversity of Enterprise Ownership and Governance", *Journal of Comparative Economics* (Top journal in Comparative Economics; Academic Press, Elsevier Science; 2021 IF: 2.429), vol. 30, no. 4, pp. 754-758.
 112. Sun, Laixiang¹. 2002. "Fading Out of Local Government Ownership: Recent Ownership Reform in China's Township and Village Enterprises", *Economic Systems* (Elsevier. 2020 IF: 3.208), vol. 26, no. 3, pp. 249-269.
 113. Hubacek, Klaus* and Laixiang Sun³. 2001. "A Scenario Analysis of China's Land Use and Land Cover Change: Incorporating Biophysical Information into Input-Output Modeling," *Structural Change and Economic Dynamics* (Elsevier. 2021 IF: 5.059), Vol. 12, No. 4, pp. 367-397.
 114. Sun, Laixiang¹. 2001. "Price Scissors, Rationing, and Coercion: An Extended Framework for Understanding Primitive Socialist Accumulation," *Economics of Planning (Economic Change and Restructuring* since 2005; Kluwer Academic Publishers, Springer Netherlands; 2021 IF: 1.708; 5-yr IF: 1.803), Vol. 34, No. 3, pp. 195-213.
 115. Fischer, Günther and Laixiang Sun³. 2001. "Model Based Analysis of Future Land Use Development in China," *Agriculture, Ecosystems and Environment* (Elsevier; 2021 IF: 6.576), Vol. 85, Issues 1-3, pp.163-176.
 116. Zou, Liang and Laixiang Sun². 2000. "Liability Sharing as a Mechanism to Improve Firms' Investment and Liquidation Decisions," *Journal of Comparative Economics* (Top journal in Comparative Economics; Academic Press, Elsevier Science; 2021 IF: 2.429), Vol. 28, No. 4, pp. 739-762.
 117. Sun, Laixiang¹, 2000. "Anticipatory Ownership Reform Driven by Competition: China's Township-Village and Private Enterprises in the 1990s," *Comparative Economic Studies* (USA: The ACES; Palgrave Macmillan; 2021 IF: 0.882), Vol. 42, No. 3, pp. 49-75.
 118. Perotti, Enrico, Laixiang Sun², and Liang Zou. 1999. "State-Owned versus Township-Village Enterprises in China," *Comparative Economic Studies* (USA: the ACES; Palgrave Macmillan; 2021 IF: 0.882), Vol. 41, No.2-3, pp. 151-179. Collected in Brada, J., Wachtel, P., Yang, D.,

- Buitenhuis, P. (Eds.), 2014. *China's Economic Development*, pp. 33-59. Palgrave Readers in Economics, Palgrave Macmillan UK. DOI: 10.1057/9781137469960.
119. Sun, Laixiang¹, 1998. "Estimating Investment Functions Based on Cointegration: The Case of China," *Journal of Comparative Economics* (Top journal in Comparative Economics; Academic Press, Elsevier Science; 2020 IF: 2.76), Vol. 26, No.1, pp.175-191.
120. Sun, Laixiang¹, 1998. "Unorthodox Ownership and Governance Structures in East Asia," *MOCT-MOST: Economic Policy in Transitional Economies* (Kluwer Academic Publishers, Springer Netherlands), Vol. 8, No.1, pp.33-62.
121. Zou, Liang and Laixiang Sun². 1996. "Interest Rate Policy and Incentives of State-Owned Enterprises in the Transitional China," *Journal of Comparative Economics* (Top journal in Comparative Economics; Academic Press, Elsevier Science; 2020 IF: 2.76), Vol. 23, No.3, pp. 292-318.

Editorship and Contributor

122. Laux, P., Z. Tian, L. Sun, J. Wei, Q. Ye. 2023. Guest Editor of a Special Issue on "Attributing and quantifying the risk of hydrometeorological extreme events in urban environments," *Hydrology and Earth System Sciences* (2021 IF: 6.617; 5-yr IF: 7.062), https://www.hydrology-and-earth-system-sciences.net/articles_and_preprints/scheduled_sis.html.
123. Chao, Q., J. Chou, X. Tan, L. Sun³. 2021. Guest Editor of a Special Issue on "Climate Change Risk and Governance," *Advances in Climate Change Research* (2021 IF: 4.746), forthcoming.
124. Liu, J., Z. Tian, Q. Ye, L. Sun³, S. Wu. 2022. Guest Editor of a Special Issue on "Nature-Based Solutions for Urban Water Management," *Frontiers in Environmental Science* (2021 IF: 5.411). <https://www.frontiersin.org/research-topics/19377/nature-based-solutions-for-urban-water-management>.
125. Sun, Laixiang², and Damian Tobin. 2008. Guest Editor of a Special Issue on "China's Adaptation to Global Best Business Practices", *Journal of Chinese Economic & Business Studies* (Taylor & Francis; 2020 IF: 1.28), vol. 6, no. 4.
126. Sun, Laixiang¹. 2002. Guest Editor of a Symposium on "Adaptive Efficiency and Evolving Diversity of Enterprise Ownership and Governance", *Journal of Comparative Economics* (Academic Press, Elsevier Science. 2020 IF: 2.76), vol. 30, no. 4, pp. 754- 863.
127. Sun, Laixiang¹. 2003. Editor of a UNU/WIDER Project book (with the authorship for two chapters), *Ownership and Governance of Enterprises: Recent Innovative Developments*. London: Palgrave Macmillan Press and New York: St Martin's Press, 275 pages. ISBN 1-4039-1633-0.

Books

128. Dhakal, S., J. C. Minx, F. L. Toth, ... L. Sun⁴ ... D. Wiedenhofer. 2022. *Emissions Trends and Drivers*, 127 pages, Chapter 2 of *Climate Change 2022: Mitigation of Climate Change*, The Working Group III report of IPCC-AR6. Available at <https://www.ipcc.ch/report/ar6/wg3/>.
129. Sun, Laixiang¹. 2001. *Aggregate Behavior of Investment in China, 1953-96: An Analysis of Investment Hunger and Fluctuation*, London: Palgrave Macmillan Press and New York: St Martin's Press (2001). 304 pages. ISBN 0-333-94809-2.

130. Sun, Laixiang.¹ 1999. *The Evolutionary Dynamics of China's Small and Medium-sized Enterprises in the 1990s*, World Development Studies Series, WDS 14, Helsinki: WIDER of United Nations University. 119 + x pages. ISBN 952-9520-91-3.
131. Sun, Laixiang.¹ 1990. *Normative Economics and Social Choice Theory* (in Chinese), Beijing: Peking University Press (February 1990). 210 pages. ISBN 7-301-00883-X/F.078.
132. Liu, Wei and Sun, Laixiang.² 1987. *Analysis of Socialist Economic Processes* (in Chinese), Beijing: Peking University Press (1987), 180 pages.

Chapters in Books

133. Feng, K., S.J. Davis, L. Sun³, X. Li, D. Guan, W. Liu, L. Zhu, K. Hubacek. 2020. "Outsourcing CO₂ within China." In Dietzenbacher, E., Lahr, M. L. and Lenzen, M. (Eds.), 2020. *Recent Developments in Input-Output Analysis*, vol. II, pp. 325-331. Edward Elgar, UK and USA, ISBN: 978 1 78643 080 9.
134. Tian, Z., H. Xu*, H. Zhong, L. Sun³, J. Liu. 2019. "Agricultural Adaptation to Climate Change in China." In T. Iizumi, R. Hirata, and R. Matsuda (eds.) *Adaptation to Climate Change in Agriculture: Research and Practices*, pp. 111-121 (Chapter 8). DOI: 10.1007/978-981-13-9235-1_8. Springer. ISBN 978-981-13-9234-4 (hbk), ISBN: 978-981-13-9235-1 (ebk).
135. Hubacek, K., G. Baiocchi, K. Feng, R. M. Castillo*, L. Sun³, J. Xue. 2017. "Global income inequality and carbon footprints: Can we have the cake and eat it too?" In Óscar Dejuán, Manfred Lenzen and María-Ángeles Cadarso (eds.) *Environmental and Economic Impacts of Decarbonization: Input-output studies on the consequences of the 2015 Paris Agreement*, pp. 111-124 (Chapter 5). Routledge. ISBN: 978-0-415-78740-6 (hbk), ISBN: 978-1-315-22593-7 (ebk).
136. Prell, Christina, Klaus Hubacek, Laixiang Sun³ and Kuishuang Feng. 2017. "Global Trade, Pollution and Mortality." In Joy Murray, Arunima Malik, and Arne Geschke (eds.) *The Social Effects of Global Trade*, pp. 161-171 (Chapter 12). Pan Stanford Publishing Pte. Ltd. ISBN 978-981-4774-55-0 (Hardcover), 978-020-3728-71-0 (eBook), www.panstanford.com.
137. Fan, Dongli, Qiuying Ding*, Zhan Tian, Laixiang Sun³, Günther Fischer. 2015. "Simulating the Adaptive Measures of Soybean Production to Climate Change in China: Based on Cross-scale Model Coupling." In Chongfu Huang, Abdelouahid Lyhyaoui, Zhai Guofang, Nesrin Benhayoun (eds.) *Emerging Economies, Risk and Development, and Intelligent Technology*, pp. 143-149. CRC Press, Taylor & Francis Group. ISBN 978-1-138-02745-9.
138. Sun, Laixiang¹. 2014. "Food Security and Agriculture in China", in *The Oxford Companion to the Economics of China*, Shenggen Fan, Ravi Kanbur, Shang-Jin Wei and Xiaobo Zhang (eds.), pp. 299-303. Oxford: Oxford University Press.
139. Perotti, Enrico, Laixiang Sun², and Liang Zou. 2014. "State-Owned versus Township-Village Enterprises in China." In Brada, J., Wachtel, P., Yang, D., Buitenhuis, P. (Eds.), 2014. *China's Economic Development*, pp. 33-59. Palgrave Readers in Economics, Palgrave Macmillan UK. DOI: 10.1057/9781137469960.
140. Tian, Z., Z. Liang, H. Qiu, L. Sun², H. Zhong, G. Fischer, H. van Velthuisen, G. Cao, S. Zhao. 2013. "Upside Potential versus Downside Risk in Chinese Agriculture under Climate Change." In Chongfu Huang and Cengiz Kahraman (eds.) *Intelligent Systems and Decision Making for Risk Analysis and Crisis Response*, pp. 291-297. CRC Press, Taylor & Francis

Group. ISBN 978-1-138-00019-3.

141. Tian, Z., H. Zhong*, L. Sun,³ G. Fischer, Z. Liang. 2012. “Estimating Potential Yield of Wheat Production in China Based on Cross-Scale Data-Model Fusion”, in: *Plant Growth Modeling, Simulation, Visualization and Applications* (PMA), 2012 IEEE Fourth International Symposium on (ISBN: 978-1-4673-0067-4), pp. 388-395, DOI: 10.1109/PMA.2012.6524862.
142. Sun, Laixiang.¹ 2012. “Forward”, in *Economic Reform and Development in China*. Cambridge: Cambridge University Press (also Beijing: Foreign Language Teaching and Research Press, 2010. ISBN: 978-1-107-02405-2).
143. Fischer, G., T. Ermolieva, and L. Sun.³ 2010. “Planning sustainable agricultural development under risks.” In: *Coping with Uncertainty: Robust Solutions*, K. Marti, Y. Ermoliev, M. Makowski (eds), Springer-Verlag, Heidelberg, Germany, pp. 209-226.
144. Sun, Laixiang,¹ and Yi Luo*. 2009. “Impact of Increasing Feed and Meat Demand on China’s Agriculture and Environment”, in Lee, Xuhui (ed.), *Lectures on China’s Environment*, Chapter 10, pp. 121-134. Yale School of Forestry & Environmental Studies Publication Series Report Number 20, Yale University.
145. Sun, Laixiang.¹ 2005. “Ownership Reform in China’s Township and Village Enterprises”, in Green, Stephen and Guy Liu (eds.), *Exit the dragon? Privatization and State Ownership in China*, Chapter 5, pp. 90-110. London: Blackwell Publishing.
146. Hubacek, Klaus, Dabo Guan*, and Laixiang Sun.³ 2005. “An Analysis of China’s Water Problems: A Long-Term Perspective”, in Leal Filho, W. (ed), *Handbook of Sustainability Research*, Part 1, Chapter 5. Frankfurt: Peter Lang Scientific Publishing (ISBN: 3-631-52606-7 / US-ISBN: 0-8204-7308-1).
147. Fischer, G., F. Zhang, and L. Sun.³ 2004. “The Role of Government in Combating Desertification,” in Shi G., W. Du, J. Li and T. Zhao (eds.), *Proceedings of the China-EU Workshop on Integrated Approach to Combat Desertification*, 15-17 October 2003, Beijing, P.R. China. pp. 171-184 (English version); pp. 133-143 (Chinese version). Beijing: China Association for International Science and Technology Cooperation (CAISTC).
148. Sun, Laixiang.¹ 2003. “Adaptive Efficiency and Evolving Diversity of Enterprise Ownership and Governance Forms: An Overview”, in Sun, Laixiang (ed.), *Ownership and Governance of Enterprises: Recent Unconventional Development*, Chapter 1. pp. 1-35. London: Palgrave Macmillan Press and New York: St Martin’s Press.
149. Sun, Laixiang.¹ 2003. “Evolving and Functioning Mechanisms of Employee Stock Ownership in China’s Township-Village Enterprises”, in Sun, Laixiang (ed.), *Ownership and Governance of Enterprises: Recent Unconventional Development*, Chapter 6. pp. 159-180. London: Palgrave Macmillan Press and New York: St Martin’s Press.
150. Sun, Laixiang.¹ 2003. “An Evolving Diversity of Ownership Forms and Implications for the Reforms of State-Owned Enterprises”, in Drysdale, Peter, Yiping Huang and Masahiro Kawai (eds.), *Achieving High Growth: Experience of Transitional Economies in East Asia*, Chapter 7, London and Sydney: Routledge.
151. Sun, Laixiang.¹ 2003. “Ownership Reform in the Absence of Crisis: China's Township, Village and Private Enterprises in the 1990s”, in McIntyre, Robert and Bruno Dallago (eds.), *Great Hopes and Mixed Achievements: SMEs in Transitional Economies*, Chapter 9, pp. 134-152. London: Palgrave Macmillan Press and New York: St Martin’s Press. ISBN 1-4039-0800-1.

152. Sun, Laixiang,³ and Marc Wuyts. 2002. “The Employment Relation in Industrial Transition: The Case of China”, in *International Development: Challenges for a World in Transition*, Open University course U213. Transitions volume, Chapter 3, pp. 52-88 (Co-author:). Milton Keynes: The Open University. ISBN 0 7492 3786 4.
153. Albersen, Peter, Günther Fischer, Michiel Keyzer, and Laixiang Sun.² 2002. “Towards Estimating Agricultural Production Relations for China”, in Song, Ligang (ed.), *Dilemmas of China's Growth in the Twenty-First Century*, Chapter 9, pp. 135-175. Canberra: Asia Pacific Press. ISBN 0 7315 3666 5.
154. Albersen, Peter and Laixiang Sun.³ 2001. “Land Degradation as a Transformation Process in an Intertemporal Welfare Optimization Framework,” in Nico Heerink, Herman van Keulen and Marijke Kuiper (eds.), *Economic Policy and Sustainable Land Use: Recent Advances in Quantitative Analyses for Developing Countries*, Chapter 4, pp. 59-72. New York: Springer Physika-Verlag, ISBN 3 7908 1315 6.
155. Sun, Laixiang.¹ 2001. “Unorthodox Ownership and Governance Structures in Transitional East Asia,” in Cornia, G. A. and V. Popov (eds.) *Transition and Institutions: The Experience of Slow and Late Reformers*, Chapter 9, pp. 171-191. Oxford: Oxford University Press, ISBN 0 19 924218 6.
156. Hubacek, Klaus* and Laixiang Sun.³ 2001. “Land-Use Change in China: Combining Geographic Information System and Input-Output Analysis,” in Marek Makowski and Hirotaka Nakayama (eds.), *Natural Environment Management and Applied Systems Analysis*, Laxenburg: International Institute for Applied Systems Analysis and Kobe: Konan University, Chapter 12, pp. 213-243.

Selected Project-Reports and Other Published Articles

157. Hua, Xiuping, Laixiang Sun and Daniel Borgia. 2012. The Influence of Fundamental Factors on Chinese Residential Real Estate Prices: A Unique Data Panel Study. Available at SSRN: <https://ssrn.com/abstract=2022682>. or <http://dx.doi.org/10.2139/ssrn.2022682>.
158. Fischer, G., J. Huang, M. A. Keyzer, H. Qiu, L. Sun,³ and W.C.M. van Veen. 2007. *China's Agricultural Prospects and Challenges: Report on Scenario Simulations until 2030 with the Chinagro Welfare Model Covering National, regional and County Level*. Project Report submitted to the EU and Dutch Government, Centre for World Food Studies, Free University of Amsterdam, Dec. 2007.
159. Albersen, Peter, Günther Fischer, Michiel Keyzer and Laixiang Sun.³ 2002. “Estimation of Agricultural Production Relations in the LUC Model for China,” Research Report RR-02-03, April 2002, IIASA, Laxenburg, Austria and SOW, Free University of Amsterdam, The Netherlands. ISBN 3-7045-0142-5.
160. Sun, Laixiang.¹ 2001. “Economics of China's Joint-Stock Cooperatives,” Discussion Paper No. 2001/24, UNU/WIDER, Helsinki, July 2001, ISBN 952-455-172-1.
161. Sun, Laixiang.¹ 2001. “New Paradigms on Ownership of the Firm: A Comparative Analysis across Development Stages and Institutional and Technological Contexts,” Working Paper No. 192, UNU/WIDER, Helsinki, August 2000, ISBN 952-455-074-1.
162. Hubacek, Klaus* and Laixiang Sun.³ 2000. “Dance with the Increasing Scarcity of Land: A Scenario Analysis for China in 2025”, IFAS Forum, 1/2000, pp. 9-16. IFAS Interdisciplinary Research Institute for Asian Studies, Vienna.
163. Sun, Laixiang.¹ 2000. “The Specification of the LUC Core Model for GAMS

- Implementation,” Internal Working Document, IIASA, Laxenburg, Austria.
164. Hubacek, Klaus* and Laixiang Sun.³ 2000. “Land Use Change at the National and Regional Levels in China: A Scenario Analysis Based on Input-Output Modeling,” Interim Report IR-00-53, 2000, IIASA, Laxenburg, Austria.
 165. Zou, Liang and Laixiang Sun.³ 1998. “A Theory of Risk Pooling and Voluntary Liquidation of Firms,” Discussion Paper TI 98-123/2, Tinbergen Institute, Amsterdam, November 1998, ISSN 0929-0834.
 166. Fischer, Günther, Yufeng Chen*, and Laixiang Sun.⁴ 1998. “The Balance of Cultivated Land in China During 1988-1995,” Interim Report IR-98-047/August, 1998. IIASA, Laxenburg, Austria.
 167. Rossmann, Charles and Laixiang Sun.² 1998. “Land-Use Change in China,” presented at the Twelfth International Conference on Input-Output Techniques, New York, 18-22 May 1998.
 168. Li, Xiubin and Laixiang Sun.² 1997. “Driving Forces of Arable Land Conversion in China,” Interim Report 97-076/Sept, 1997, IIASA, Laxenburg, Austria.
 169. Sun, Laixiang.¹ 1997. “Emergence of Unorthodox Ownership and Governance Structures in East Asia: An Alternative Transition Path,” Research for Action Series RFA38, UNU/WIDER, Helsinki, Finland, July 1997. viii + 55 pages. ISBN 952-9520-62-X.
 170. Sun, Laixiang.¹ 1995. “Modeling Transactions Demand for Cash in China (1952-1992): Based on Cointegration,” presented at the Mid-term Meeting of EADI Working Group on Monetary and Financial Affairs, University of Glasgow, 24-25 March 1995.
 171. Sun, Laixiang.¹ 1993. “Institutional Changes, Superexogeneity, and Money Demand Function with Constancy: An Empirical Studies of China's Case,” presented at the 7th General Conference of European Association of Development Research and Training Institutes (EADI), Technical University of Berlin, 15-18 September 1993.
 172. Sun, Laixiang.¹ 1993. “Investment Cycle and Its Determinants in China: 1952-1990,” presented at the International Conference on the Asian Pacific Economy, Cairns, Australia, 25-28 August 1993.
 173. Sun, Laixiang.¹ 1990. “The Supply-Demand Gap in a State of Normal Shortage and Price Level Determination in China,” presented at International Conference on Quantitative Economics in Beijing (24-27 June 1990).

Articles published in National Refereed Journals (in Chinese)

174. Tian. Z., W. Wu*, J. Liu, L. Sun³. 2022. “A review of decision-making methods for climate change adaptation under deep uncertainty: With a focus on flooding control in coastal cities.” *China Science Bulletin*, Vol. 67, pp. 1–13, doi: 10.1360/TB-2021-1218.
175. Ding, Qiuying*, Zhan Tian, Dongli Fan, Laixiang Sun³, Günther Fischer. 2016. “A Study of the Impact on Soybean Potential under Climate Change.” *Journal of Risk Analysis and Crisis Response*, Vol. 6, No. 2, pp.95-102.
176. Tang, X., X. Yang*, Z. Tian, G. Fischer, Laixiang Sun,³ J. Pan. 2011. “Impacts of Climate Change on Agro-Climatic Resources in China,” *Resources Science*, Vol. 33, No.10, pp. 1962-1968.
177. Sun, Laixiang.¹ 2010. “Who will feed China's livestock?” *The Twenty-First Century Review* (Chinese University of Hong Kong), No. 121 (Oct 2010): 39-41.
178. Fischer, G., G-Y Cao, T. Ermolieva, L. Sun,⁴ and Xiaoying Zheng. 2008. “Urbanization and Livestock Production Projection: An approach to healthy and environmental risks,” *Population and Development*, 14 (6): 1668-1674.

179. Sun, Laixiang.¹ 1995. "Fallacies of Induction in Debates on Reform Strategy," *Strategy and Management*, No. 1 (Jan. 1995): 108-13.
180. Sun, Laixiang.¹ 1991. "The Demand for Money (M0) in the Context of Institutional Change: Theoretical Formulation and Empirical Results," *Economic Research Journal*, No.11 (Nov. 1991): 63-72.
181. Sun, Laixiang.² and Zunkai Fang*. 1991. "The Determination of State Procurement Price for Agricultural Products in China: Behavior Model and Empirical Testing," *Economic Research Journal*, No.5 (May 1991): 35-41.
182. Sun, Laixiang.¹ 1991. "The Objective Function and Wage Cost in Chinese Enterprises," *Journal of Economic Science*, No.4 (Aug. 1991): 59-62.
183. Li, Yining, Laixiang Sun,² and Gang Yun*. 1990. "Demand-Supply Gap under the Normal Shortage Intensity and the Determinants of Aggregate Price Level in China," *Management World*, No. 5 (May 1990): 135-145.
184. Sun, Laixiang.¹ 1990. "Efficiency Mechanism and Dynamic Organizational Economic Analysis," *Economic Information*, No.2 (Feb. 1990): 48-52.
185. Liu, Wei and Laixiang Sun.² 1990. "Comments on Li Yining's Socialist Political Economy," *Social Sciences in China* (English version), Autumn, 1990, pp.205-14.
186. Sun, Laixiang.¹ 1989. "The Optimal Distribution of Income and the Justice Rule of Competition," *The Chinese Intellectual*, No.1 (Jan. 1989): 63-68.
187. Sun, Laixiang.¹ 1989. "Endogenous Inflation and Reform of Ownership," *Information of Economic Literature*, No.1 (Jan. 1989): 6-11.
188. Sun, Laixiang.¹ 1989. "The Special Contradictions in Our Economy and the Key Choices for Our Reform," *Qiushi* (Theoretical Journal of the Central Committee of the Communist Party of China), No.4 (Feb. 1989): 27-31.
189. Sun, Laixiang.¹ 1988. "On Major Problems Related to the Price Reform," *Human Economy*, No.9 (Sep. 1988): 1-5.
190. Sun, Laixiang.¹ 1988. "The Framework of Economic Surplus and Its Application in Economic Policy Analysis," *Towards Future*, Vol.3, No. 1 (Feb. 1988): 72-78.
191. Sun, Laixiang.¹ 1988. "On the Economic Development Strategy of Shandong Province," *Towards the World*, No.3 (1988): 7.
192. Sun, Laixiang.¹ 1987. "James Buchanan and Public Choice School," *Towards Future*, Vol.2, No.1 (Mar. 1987): 148-153.
193. Chen, Liangkun and Laixiang Sun.² 1987. "A Research Report on China's Retirement System," *Social Science in Beijing*, No.4 (Aug. 1987): 136-45.
194. Chen, Liangkun, Laixiang Sun.² and Lining Shao. 1987. "Aging Population: An Urgent Challenge and Relevant Choices," *Research of Planned Economy*, No.4 (Supplement), (Aug. 1987): 52-62.
195. Sun, Laixiang.¹ 1986. "Positive versus Normative Approaches in Economics and Science," *Economic Information*, No.6, (June 1986): 52-56.
196. Sun, Laixiang.¹ 1986. "Social Choice – An Eternal Puzzle?" *Journal of Peking University* (Social Sciences), No.6 (Nov. 1986): 74-79.
197. Sun, Laixiang.¹ 1986. "Government Failures – Image and Reality," *Reference to Policy Making*, No.11/12 (Nov. 1986): 47-51.
198. Sun, Laixiang.¹ 1986. "On Arrow's Impossibility Theorem," *Towards Future*, Vol.1, No.1 (Aug. 1986): 118-121.

Selected Chapters in Books (in Chinese)

199. Sun, Laixiang.¹ 2020. "Ownership Reform and the Vitality of Enterprises," in Peking University Guanghua School of Management (ed.), *Lifelong Scholarship: A Review of Li Yining's Economic Theory* (Beijing: The Commercial Press), Chapter 6, pp. 67-78.
200. Fischer, Günther, Laixiang Sun,² and Xiangzhen Deng. 2009. "Assessing Potential Productivity of Agriculture and Agro-Ecological Zone Modelling," in Yu, Guirui (ed.), *The Frontier Research Topics in Human Activities and Changes in Ecological System* (Beijing: High Education Publishing House, 2009), Chapter 25.
201. Sun, Laixiang.¹ 1992. "Inflation and Pricing Mechanism," in Li, Yining (ed.), *The Positive Analysis of China's Macro-Economy* (Beijing: Peking University Press), Chapter 11.
202. Sun, Laixiang² and Lan Zhang. 1992. "A Survey on the Economic Efficiency of State-Owned Enterprises," in Li, Yining (ed.), *The Functioning Mechanism of China's Commodity Economy* (Beijing: China Economy Press), Chapter 1.
203. Li, Yining, Laixiang Sun² and Gang Yun*. 1992. "The Fluctuations of General Price Level," in Li, Yining (ed.), *The Functioning Mechanism of China's Commodity Economy* (Beijing: China Economy Press): Chapter 7.
204. Li, Yining and Laixiang Sun.¹ 1992. "Towards Well-Off Together on the Basis of Rising Efficiency," in Li, Yining (ed.), *The Functioning Mechanism of China's Commodity Economy* (Beijing: China Economy Press), Chapter 9.
205. Sun, Laixiang.¹ 1989. "The Challenges to and Innovations in Economics," in Li Yining (ed.), *The Guide to China's Economic Reform* (Beijing: China Zhanwang Press), pp.204-217.
206. Li, Yining, Laixiang Sun,³ and others. 1988. "A Program for the Reform of China's Economic System in 1988-1995," in State System Reform Commission of China (eds.), *The Main Train of Thought for China's Reform* (China: Liaoning Press, 1988), pp.90-128.

Review Articles (in English)

207. Book Review, *Linkages between China's Regions: Measurement and Policy* (by Nicolaas Groenewold, Anping Chen and Guoping Lee), *China Journal*, no. 62 (July 2009): 190-192.
208. Book Review, *Business Networks and Strategic Alliances in China* (edited by Stewart Clegg, Karen Wang and Mike Berrell), *China Quarterly*, no. 196 (Dec. 2008): 931-932.
209. Book Review, *Towards a Labour Market in China* (by John Knight and Lina Song), *Economica*, 74, 294 (May 2007): 375-376.
210. Book Review, *China and the World Trading System: Entering the New Millennium* (Edited by Deborah Z. Cass, Brett G. Williams and George Barker), *China Journal*, no. 52 (July 2004): 197-198.
211. Book Review, *The Development of China's Stock Market, 1984-2002* (by Stephen Green), *China Quarterly*, no. 178 (June 2004): 513-514.
212. Book Review, *Integrating China into the Global Economy* (by Nicholas Lardy), *China Quarterly*, no. 176 (Dec. 2003): 1084-85.
213. Book Review, *The Development of Corporate Governance in China* (by On Kit Tam), *Asian-Pacific Economic Literature* 15, 2 (Nov. 2001): 44-45.
214. Book Review, *The China Miracle: Development Strategy and Economic Reform* (by Justin Y. Lin, Fang Cai and Zhou Li), *Development and Change* 29, 2 (April 1998).
215. Book Review, *Growing out of the Plan: Chinese Economic Reform, 1978-1993* (by B.J. Naughton), *Development and Change* 28, 2 (April 1997).

216. Book Review, *Bureaucracy, Politics, and Decision Making in Post-Mao China* (K.G. Lieberthal and D.M. Lampton [eds.]), *Development and Change* 26, 4 (Oct. 1995).
217. Book Review, *Chinese Economy in Transition* (Y. Wu and X. Zhang [eds.]), *Development and Change* 26, 3 (July 1995): 601-03.
218. “Comments on Li Yining's *Socialist Political Economy*,” *Social Sciences in China*, Autumn, 1990, pp. 205-14 (co-author: Wei LIU).

Major Research Projects

- Lead Collaborator (Institutional PI at UMD) in a NASA-LCLUC Project (80NSSC20K1490) – “Soybean Expansion in South America: Quantifying Historical Land-Use Change, Modeling Socioeconomic Drivers and Projecting Future Trajectories.” January 2021-December 2023 (USD 450,000).
- Co-Principal Investigator in a Research Project sponsored by the Met Office and Newton Fund of the UK – “Providing predictions of typhoon season characteristics for shipping in the Pearl River Delta.” April 2019-March 2021 (GBP400,000).
- Co-Principal Investigator in a Research Project sponsored by NWO (The Netherland)-NSFC (China)-EPSRC (UK) – “Sustainable Solutions for Managing Compound Flood Risks under Future Uncertainties: The Case of Shanghai City and the Yangtze River Delta Region.” Dec 2017-Nov 2021 (EUR 280,000 + RMB 3 million + GBP 300,000).
- Co-Principal Investigator in a NASA-LCLUC Project – “A Cobra in the Forest? Quantifying the Political Drivers and Socio-Economic Impacts of Perverse Incentives from Indonesia’s Deforestation Moratorium, 2011 to 2016” and PI in “Forest Change and Oil Palm Expansion in Southeast Asia: Historical Patterns, Socioeconomic Drivers, and Future Projection.” July 2018-June 2021 (USD 825,000).
- Co-investigator in a NASA-IDS Project – “Integrating Remote Sensing Observations with NASA’s GEOS-5 Modeling Framework in Support of Retrospective Analyses and Seasonal Prediction of Biosphere-Atmosphere CO₂ Flux,” July 2017-June 2020 (USD 1,809,744).
- Co-Investigator in a research project sponsored by DfID (UK) – “Modelling Early Risk Indicators to Anticipate Malnutrition (MERIAM),” implemented mainly by the UMD team, Feb 2017-Aug 2020 (GBP 2,750.00).
- Principal Investigator in a Research Project sponsored by the Met Office and Newton Fund of the UK – “Development of an Integrated Urban Framework for Climate Services in the Yangtze River Delta Region”, July 2017-July 2019 (BGP 155,000).
- Co-investigator in an ESRC project – “Research on China's Financial System towards Sustainable Growth: The Role of Innovation, Diversity and Financial Regulation”, Jan 2017-Dec 2019 (GBP 323,998, <http://gtr.rcuk.ac.uk/projects?ref=ES%2FP005241%2F1>).
- Co-Principal Investigator in a Horizon 2020 project of the European Commission – “Guiding European Policy towards a low-carbon economy. Modelling sustainable Energy system Development under Environmental And Socioeconomic constrains (MEDEAS)”, Jan 2016-Dec 2019 (Contract number: LCE-21-2015-691287; EUR 3,736,000).
- Co-Principal Investigator in a Research Project of China Prosperity Strategic Programme Fund sponsored by the Foreign and Commonwealth Office (FCO) of the UK – “Climate Risk Assessment for the City Cluster in the China Yangtze River Delta Region: Using UK experiences”, May 2016-March 2017 (GBP 100,000).
- Co-Principal Investigator in a Research Project of China Prosperity Strategic Programme

Fund sponsored by the Foreign and Commonwealth Office (FCO) of the UK – “A Study of Flood Control Strategies for Shanghai to Respond to Climate Change”, May 2015-Nov 2016 (GBP 84,520).

- Co-Principal Investigator in a Project of the General Programme of the National Natural Science Foundation of China – “Assessing Regional Suitability and Comparable Advantages for Growing Oil Crops in China under Climate Change”, Jan 2014-Dec 2017 (RMB 800,000).
- Co-Principal Investigator in a Major International Joint Project of the National Natural Science Foundation of China – “Integrated Analysis and Modelling of Land Use Efficiency and Security under Rapid Agricultural Transformation in China”, Jan 2012-Dec 2016 (Contract number: NSFC-41161140352; RMB 2.2 million + EUR 200,000).
- Co-Principal Investigator in a Major International Joint Project of the National Natural Science Foundation of China – “Assessing the Impact of Climate Change and Intensive Human Activities on China's Agro-Ecosystem and its Supply Potentials”, Jan 2010-Dec 2012 (Contract number: NSFC-40921140410; RMB 1.2 million + EUR 100,000).
- Principal Investigator and Sponsor of Newton International Fellowship, 2009-2011, awarded by British Academy, Royal Academy of Engineering, and Royal Society, on “The Economics of Biofuel Production: Social and Environmental Impacts in China”.
- Leading Scientist of the SOAS Team in the EU 6th Framework Project on “Chinese Agricultural Transition: Trade, Social and Environmental Impacts” (Contract number: 44255-CATSEI), Jan 2007-June 2010.
- Leading Scientist in the research project of Chinese Academy of Sciences on “Human Activities and Changes of Terrestrial Ecosystems in China”. December 2005-June 2009. Host Institute: Institute of Geographic Sciences and Natural Resources Research (IGSNRR), Chinese Academy of Sciences.
- Principal Investigator and Sponsor of British Academy Visiting Fellowship, 2006, 2009, 2011, awarded by British Academy.
- Principal Organizer of Chinese Economic Association (UK/Europe) 2012 Annual Conference on “The Chinese Way of Economic Reform and Development and Its Interaction with Globalization”, sponsored by British Academy and SOAS.
- Leading Model-Builder in the EU 5th Framework Project on “Policy Decision Support for Sustainable Adaptation of China’s Agriculture to Globalization (CHINAGRO)” (Contract number: ICA4-CT-2001-10085), Oct 2001-Jan 2005.
- Project Director of the United Nations University (UNU) on “Property Rights Regimes, Microeconomic Incentives and Development,” UNU/WIDER, Helsinki, Finland, January 2000-December 2002.
- Consultant/Researcher in the Project: “Small and Medium-sized Enterprises in Transition: How does Entrepreneurship Develop in Post-Socialist State,” World Institute for Development Economics Research (UNU/WIDER), Helsinki, Finland, March 1998-October 1999.
- Consultant/Researcher in Project: “Economic Theories and Strategies of the Transition,” UNU/WIDER, Helsinki, Finland, March 1996-October 1997.
- Core Team Member and Senior Research Fellow in the State Priority Project: “The Reform Program of China's Economic System in 1988-95,” State System Reform Commission, Beijing, China, Feb. 1988-Feb. 1989.
- Core Team Member and Senior Research Fellow in the State Research Project: “The Welfare

Models of Chinese Society,” Ministry of Labor and Personnel Administration, Beijing, China, 1987-1988.

- Core Team Member and Senior Research Fellow in the State Research Project: “Mobility of Labor Force and Economic Development,” Institute of Economic Research, State Planning Commission, Beijing, China, 1986-1988.

Teaching Experience

Courses taught in the last ten years:

- *Applied Spatial Econometrics* (GEOG 423/732) PhD students and senior undergraduates, Department of Geographical Sciences, University of Maryland, College Park, USA, Fall Semester 2014, 2015, 2016, 2017, 2018, 2019, 2020; Spring Semester 2022, 2023.
- *Urban Geography* (GEOG 333), undergraduate students, Department of Geographical Sciences, University of Maryland, College Park, USA, Spring Semester 2018, 2019, 2020, 2021, 2023.
- *Introduction to Human Geography* (GEOG 202), undergraduate students, Department of Geographical Sciences, University of Maryland, College Park, USA, Fall Semester 2021.
- *Introduction to Human Dimensions of Global Change* (GEOG 331), undergraduate students, Department of Geographical Sciences, University of Maryland, College Park, USA, Spring Semester 2017.
- *Land Use and Urban Economics* (GEOG 498L/788L) senior undergraduate and PhD students, Department of Geographical Sciences, University of Maryland, College Park, USA, Spring Semesters 2015, 2016.
- *Conceptualizing and Modelling Human-Environmental Interactions* (GEOG 416), undergraduate students, Department of Geographical Sciences, University of Maryland, College Park, USA, Spring and Fall Semesters 2014.
- *Corporate Governance*, for MSc and PhD students, DeFiMS/SOAS, University of London, UK, January-March (or April) 2003-2012. 15-20 students per year.
- *Management in China II: International Dimensions*, for MSc students, DeFiMS/SOAS, University of London, UK, January-March (or April) 2002-2012. 30-45 students per year.
- *Management in China: Domestic and International Developments*, for BSc students, DeFiMS/SOAS, a two-team course taught by 3 colleagues, 2009-2011. 27-35 students per year.
- *Corporate Governance*, for distance learning students, 2004-2012, 50-80 students per year.
- *Management in China II: International Dimensions*, for distance learning students, 2007-2012, 20-40 students per year.