



Xiangzheng Deng

Director of Research Laboratory of Environmental Management on Land Surface, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences

11A Datun Road, Anwai, Beijing, 100101 China

Tel: + 86-010-64888980 dengxz@igsnrr.ac.cn

PEER REVIEWED PUBLICATIONS (LAST 5 YEARS)

Peng, L., Xia, J., Li, Z., Fang, C., & **Deng, X.**, 2020. Spatio-temporal dynamics of water-related disaster risk in the Yangtze River Economic Belt from 2000 to 2015. *Resources, Conservation and Recycling*, 161, 104851.

Li, Z., **Deng, X.**, & Peng, L., 2020. Uncovering trajectories and impact factors of CO₂ emissions: A sectoral and spatially disaggregated revisit in Beijing. *Technological Forecasting and Social Change*, 158, 120124.

Liang, L., **Deng, X.**, Wang, P., Wang, Z., & Wang, L., 2020. Assessment of the impact of climate change on cities livability in China. *Science of the total environment*, 726, 138339.

Wang, J., Bai, Y., Wang, Y., Li, Z., **Deng, X.**, M. Islam and S. Managi., 2020. Measuring inclusive wealth of China: Advances in sustainable use of resources. *Journal of Environmental Management* 264, 110328.

Zhang, F., **Deng, X.**, Phillips, F., Fang, C., & Wang, C., 2020. Impacts of industrial structure and technical progress on carbon emission intensity: Evidence from 281 cities in China. *Technological Forecasting and Social Change*, 154, 119949.

Li, Z., **Deng, X.**, Jin, G., Mohammed, A., & Arowolo, A. O., 2019. Tradeoffs between agricultural production and ecosystem services: a case study in zhangye, northwest china. *ence of The Total Environment*, 707, 136032.

Jin, G., Guo, B., & **Deng, X.** 2019. Is there a decoupling relationship between co₂ emission reduction and poverty alleviation in china? *Technological Forecasting and Social Change*, 151, 119856.

Zou, Y., Kraker, J. D., Bianchi, F. J. J. A., Xiao, H., Huang, J., & **Deng, X.**, et al. 2020. Do diverse landscapes provide for effective natural pest control in subtropical rice? *Journal of Applied Ecology*, 57(1), 170-180.

- Wen, X., **Deng, X.**, Zhang, F., 2019. Scale effects of vegetation restoration on soil and water conservation in a semi-arid region in China: Resources conservation and sustainable management. *Resources, Conservation and Recycling* 151, 104474.
- Deng, X.**, Gibson, J., 2019. Improving eco-efficiency for the sustainable agricultural production: A case study in Shandong, China. *Technological Forecasting and Social Change*, 144, 394-400.
- Wang, Z., **Deng, X.**, Liu, G., 2019. Environmental income in economic growth of a large open economy for the era of eco-urbanization. *Forestry Economics Review*. 1, 32-56.
- Wang, P., **Deng, X.**, Zhou, H., Yu, S., 2019. Estimates of the social cost of carbon: A review based on meta-analysis. *Journal of Cleaner Production* 209, 1494–1507.
- Wang, P., **Deng, X.**, Jiang, S., 2019. Global warming, grain production and its efficiency: Case study of major grain production region. *Ecological Indicators* 105, 563–570.
- Wang, G., **Deng, X.**, Wang, J., Zhang, F., Liang, S., 2019. Carbon emission efficiency in China: A spatial panel data analysis. *China Economic Review* 56, 101313.
- Mohammed, A., Li, Z., Olushola A.A., Su, H., **Deng, X.**, Najmuddin, O., Zhang, Y., 2019. Driving factors of CO2 emissions and nexus with economic growth, development and human health in the Top Ten emitting countries. *Resources, Conservation and Recycling* 148, 157–169.
- Liu, Y., Song, W., **Deng, X.**, 2019. Understanding the spatiotemporal variation of urban land expansion in oasis cities by integrating remote sensing and multi-dimensional DPSIR-based indicators. *Ecological Indicators*, 96, 23–37.
- Bai, Y., **Deng, X.**, Zhang, Y., Wang, C., Liu, Y., 2019. Does climate adaptation of vulnerable households to extreme events benefit livestock production? *Journal of Cleaner Production* 210, 358–365.
- Bai, Y., **Deng, X.**, Jiang, S., Zhao, Z., Miao, Y., 2019. Relationship between climate change and low-carbon agricultural production: A case study in Hebei Province, China. *Ecological Indicators* 105, 438–447.
- Han, Z., Song, W., **Deng, X.**, Xu, X., 2018. Grassland ecosystem responses to climate change and human activities within the Three-River Headwaters region of China. *Scientific Reports* 8, 9079.
- Bryan, B.A., Gao, L., Ye, Y., Sun, X., Connor, J.D., Crossman, N.D., Stafford-Smith, M., Wu, J., He, C., Yu, D., Liu, Z., Li, A., Huang, Q., Ren, H., **Deng, X.**, Zheng, H., Niu, J., Han, G., Hou, X., 2018. China's response to a national land-system sustainability emergency. *Nature* 559, 193.
- Deng, X.**, Gibson, J., 2018. Sustainable land use management for improving land eco-efficiency: a case study of Hebei, China. *Annals of Operations Research* 1–13.

Deng X., Gibson, J., Jia, S., 2018. Does Expressway Consume More Land of the Agricultural Production Base of Shandong Province. *Computational Economics*, 52, 1293–1316.

Arowolo, A.O., **Deng, X.,** Olatunji, O.A., Obayelu, A.E., 2018. Assessing changes in the value of ecosystem services in response to land-use/land-cover dynamics in Nigeria. *Science of The Total Environment* 636, 597–609.

Wang, Z., **Deng, X.,** Song, W., Li, Z., Chen, J., 2017. What is the main cause of grassland degradation? A case study of grassland ecosystem service in the middle-south Inner Mongolia. *Catena* 150, 100–107.

Deng X., Gibson, J., Wang, P. 2017. Quantitative measurements of the interaction between net primary productivity and livestock production in Qinghai Province based on data fusion technique. *Journal of Cleaner Production*, 142, 758–766.

Deng X., Gibson, J. Wang, P., 2017. Management of trade-offs between cultivated land conversions and land productivity in Shandong Province. *Journal of Cleaner Production*, 142, 767–774.

Song, W., **Deng, X.,** 2017. Land-use/land-cover change and ecosystem service provision in China. *Science of The Total Environment* 576, 705–719.

Liu, Y., Song, W., **Deng, X.,** 2016. Changes in crop type distribution in Zhangye City of the Heihe River Basin, China. *Applied Geography* 76, 22–36.

Deng X., Li, Z., 2016. A review on historical trajectories and spatially explicit scenarios of land-use and land-cover changes in China. *Journal of Land Use Science*, 11, 709–724.

Deng X., Li, Z., Gibson, J., 2016. A review on trade-off analysis of ecosystem services for sustainable land-use management. *Journal of Geographical Sciences*, 26, 953–968.

Deng X., Wang, Z. Zhao, C. 2016. Economic Evolution in China Ecologically Fragile Regions. *Journal of Economic Surveys*, 30, 552–576.

Li, Z., **Deng, X.,** Wu, F., Hasan, S., 2015. Scenario Analysis for Water Resources in Response to Land Use Change in the Middle and Upper Reaches of the Heihe River Basin. *Sustainability* 7, 3086–3108.

Song, W., **Deng, X.,** Yuan, Y., Wang, Z., Li, Z., 2015. Impacts of land-use change on valued ecosystem service in rapidly urbanized North China Plain. *Ecological Modelling*, 318, 245–253.

Song, W., **Deng, X.,** 2015. Effects of Urbanization-Induced Cultivated Land Loss on Ecosystem Services in the North China Plain. *Energies* 8, 5678–5693.

Deng, X., Shi, Q. Zhang, Q., Shi, C. Yin, F., 2015. Impacts of land use and land cover changes on surface energy and water balance in the Heihe River Basin of China, 2000–2010. *Physics and Chemistry of the Earth* 79–82, 2–10.

BOOKS AND BOOK CHAPTERS

Deng, X., Gibson, J., 2019. River Basin Management. Springer Singapore.

Zhang, Q., **Deng, X.**, 2016. Urban development in Asia: pathways, opportunities, and challenges. Springer Berlin Heidelberg, New York, NY.

Deng, X., et al., 2014. Land Use Impacts on Climate, Springer.

Deng, X., et al., 2014. Integrated River Basin Management: Practice Guideline for the IO Table Compilation and CGE Modeling, Springer.

Deng, X., 2011. Modeling the Dynamics and Consequences of Land System Change. Springer.

Deng, X., Li, Z., 2016. Economics of Land Degradation in China, in: Nkonya, E., Mirzabaev, A., von Braun, J. (Eds.), Economics of Land Degradation and Improvement – A Global Assessment for Sustainable Development. Springer International Publishing, Cham, pp. 385–399.

Deng, X., Lin, Y., Seto, K.C., 2014. Land-Use Competition between Food Production and Urban Expansion in China, in: Seto, K.C., Reenberg, A. (Eds.), Rethinking Global Land Use in an Urban Era. The MIT Press.

Deng, X., Güneralp, B., Su, H., 2014. Systematic Modeling of Land Use Impacts on Surface Climate, in: Deng, X., Güneralp, B., Zhan, J., Su, H. (Eds.), Land Use Impacts on Climate, Springer Geography. Springer Berlin Heidelberg, Berlin, Heidelberg, pp. 1–17.

Deng, X., 2011. The DLS Model and Its Application, in: Modeling the Dynamics and Consequences of Land System Change. Springer, Berlin, Heidelberg, pp. 129–157.

Deng, X., 2011. The CGELUC Model and Its Application, in: Modeling the Dynamics and Consequences of Land System Change. Springer, Berlin, Heidelberg, pp. 91–128.

Deng, X., 2011. Simulation of Structural Change in Land Use in Jiangxi Province Using the CGELUC Model, in: Deng, X. (Ed.), Modeling the Dynamics and Consequences of Land System Change. Springer Berlin Heidelberg, Berlin, Heidelberg, pp. 183–207.

Deng, X., 2011. Land System and Research Plans, in: Modeling the Dynamics and Consequences of Land System Change. Springer, Berlin, Heidelberg, pp. 1–39.

Deng, X., 2011. Estimation of the Impacts of Land System Change on Land Productivity in the North China Plain, in: Modeling the Dynamics and Consequences of Land System Change. Springer, Berlin, Heidelberg, pp. 241–270.

Deng, X., Wen, X., 2011. Research on Computer-Based Simulation for the Dynamics of Land System, in: Advances in Computer Science, Intelligent System and Environment, Advances in Intelligent and Soft Computing. Springer, Berlin, Heidelberg, pp. 251–255.