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Research Interests

- Spatiotemporal pattern monitoring of agricultural land use
- Optimization of crop planting structure
- Sustainable utilization of cultivated land resources

Publication

A new approach for spatial optimization of crop planting structure to balance economic and environmental benefits, Sustainable Production and Consumption, 2025, DOI: 10.1016/j.spc.2024.12.003

A new factorial sensitivity model for analyzing the impacts of climatic factors on crop water footprint, Journal of Cleaner Production , 2024, DOI: 10.1016/j.jclepro.2023.140194

What is the relationship between energy consumption and economic development? New evidence from a rapidly growing economic development region, Environment, Development and Sustainability ,2023, DOI: 10.1007/s10668-022-02196-8

Spatial-temporal variations in green, blue and gray water footprints of crops: How do socioeconomic drivers influence?, Environmental Research Letters, 2022, DOI: 10.1088/1748-9326/aca4e5



Spatial-temporal heterogeneity of air pollution and its relationship with meteorological factors in the Pearl River Delta, China , Atmospheric Environment,2021,DOI: 10.1016/j.atmosenv.2021.118415

Identifying the key sectors for regional energy, water and carbon footprints from production-, consumption- and network-based perspectives , Science of The Total Environment, 2020,DOI: 10.1016/j.scitotenv.2020.142821

How to balance ecosystem services and economic benefits? – A case study in the Pearl River Delta, China, Journal of Environmental Management, 2020, DOI: 10.1016/j.jenvman.2020.110917

Spatio-temporal changes in ecosystem service value in response to land-use/cover changes in the Pearl River Delta, Resources, Conservation & Recycling,2019, DOI: 10.1016/j.resconrec.2019.05.032

Spatial differentiation of ecological security and differentiated management of ecological conservation in the Pearl River Delta, China, Ecological indicators,2019, DOI: 10.1016/j.ecolind.2019.04.081

A significant increase in the normalized difference vegetation index (NDVI) during the rapid economic development in the Pearl River Delta of China, Land Degradation & Development,2019, DOI: 10.1002/ldr.3221