



Chang Yue (常悦)

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Research Interests

Thermal Infrared Remote Sensing; Urban Remote Sensing; Urban Climates;
Model-data Fusion; Eco-environmental Monitoring

Education

July 2017 ~ June 2022, Doctor of Philosophy, Xi'an Jiaotong University
September 2019 ~ March 2021, Visiting Ph.D. student, University of New Hampshire
July 2019 ~ August 2019, Summer school, University of Maryland, College Park
September 2015 ~ June 2017, Master student, Xi'an Jiaotong University
September 2011 ~ June 2015, Bachelor of Science, Xi'an Jiaotong University

Publications

1. **Chang Y**, Xiao J, Li X, Middel A, Zhang Y, Gu Z, Wu Y, He S. Exploring diurnal thermal variations in urban local climate zones with ECOSTRESS land surface temperature data [J]. *Remote Sensing of Environment*, 2021, 263.
2. **Chang Y**, Xiao J, Li X, Zhou D, Wu Y. Combining GOES-R and ECOSTRESS land surface temperature data to investigate diurnal variations of surface urban heat island [J]. *Science of The Total Environment*, 2022: 153652.
3. **Chang Y**, Xiao J, Li X, Froking S, Zhou D, Schneider A, Weng Q, Yu P, Wang X, Li X, Liu S, Wu Y. Exploring diurnal cycles of surface urban heat island intensity in Boston with land surface temperature data derived from GOES-R geostationary satellites [J]. *Science of The Total Environment*, 2021, 763: 144224.
4. **Chang Y**, Hou K, Wu Y, Li X, Zhang J. A conceptual framework for establishing the index system of ecological environment evaluation—A case study of the upper Hanjiang River, China [J]. *Ecological Indicators*, 2019, 107.
5. **Chang Y**, Hou K, Li X, Zhang Y. Analysis of dynamic changes in the urbanization of Xixian National New Area and its driving forces [J]. *Indoor and Built Environment*, 2018, 28(9): 1181-1189.
6. **Chang Y**, Hou K, Li X, Zhang Y, Chen P. Review of land use and land cover change research progress. *IOP Conference Series: Earth and Environmental Science*, F, 2018 [C]. IOP Publishing.
7. Hou K, Tao W, **Chang Y**, Zhang Y, Li X, Chen P. A feasible method for the

- division of ecological vulnerability and its driving forces in Southern Shaanxi [J]. Journal of Cleaner Production, 2018, 205: 619-628.
8. Zhang Y, **Chang Y**, Yu K, Zhang L, Li X. Difference Analysis of Ecological Vulnerability and Zoning Changes of National Energy and Chemical Bases Using FAHP Method [J]. International Journal of Environmental Research and Public Health, 2021, 18(13): 6785.
 9. Zhang Y, Hou K, **Chang Y**, Li X, Yu C. Assessment of human settlements and associated influential factors in Weihe River Plain [J]. Indoor and Built Environment, 2019, 28(9): 1162-1170.

Selected Projects

1. National Natural Science Foundation of China (41861144021): Study on multi-scale thermal resistance source model and numerical simulation method of urban wind environment oriented to the concept of local climate zone
2. Strategic Priority Research Program of Chinese Academy of Science (XDB40020205): Response and feedback of the key surface processes to climate and environmental change in the Loess Plateau
3. Key Project of the Ministry of Science and Technology of China (2013FY112500): Comprehensive survey of human settlement quality and preparation of urban climatic maps collection for typical cities

Honors/Awards

- ◇ 2021, Excellent Postgraduate, Xi'an Jiaotong University
- ◇ 2020, Jizhi Scholarship, Xi'an Jiaotong University
- ◇ 2020, Excellent Postgraduate, Xi'an Jiaotong University
- ◇ 2019, National Scholarship, China Scholarship Council
- ◇ 2018, First-class Scholarship, Xi'an Jiaotong University
- ◇ 2012, Excellent student leader, Xi'an Jiaotong University

International Service

Reviewer for many international journals, including Remote Sensing of Environment, Ecological Indicators, Environmental and Sustainability Indicators

Scholarly Communication

- ◇ 2020/2021, American Geophysical Union Fall Meeting (AGU)
- ◇ 2019, Summer School in University of Maryland, College Park
- ◇ 2018, China Conference on Geography

Personal Skills

- ◇ ArcGIS, Origin, ENVI, Matlab, Python