Chunguang Hu

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RESEARCH INTERESTS

/ / /

EDUCATION

- Peking University / Doctor / School of Urban Planning and Design
- Huazhong University of Science and Technology / Master / School of Architecture and Urban Planning

APPOINTMENTS

- Peking University

GRANTS & PROJECTS

- Identification and Targeted Mitigation of Heat Exposure Risk in Watershed Settlements Based on Network Models (China University of Mining and Technology, 2025-11-2026-12)

ACADEMIC SERVICE

- Academic Editor, PLOS ONE (2024-04-present)
- Guest Editor, Asian Journal of Water, Environment and Pollution (2026-05-20-2027-03-31)
- Guest Editor, Discover Cities (2026-04-30-2027-01-31)
- Guest Editor, Frontiers in Environmental Science (2025-11-25-2026-06-30)
- Peer review records: 0 (ORCID public record)

BIBLIOMETRICS (OpenAlex, auto-synced)

Total citations: 1123 h-index: 20 i10-index: 26 Works: 50
Source: OpenAlex API, matched by ORCID, duplicate author profiles deduplicated by DOI. Google Scholar metrics are maintained manually on the website.

PUBLICATIONS (58 journal/conference items; most recent 25 shown)

[1] Wenqiang Wan, Xiaobin Jin, Houbao Fan, Pengshan Li, Miao Yang, Junjun Zhu, et al.. From urban greenbelt to peri-urban ecological zone: A counterfactual evaluation of nature-based solutions under the Park City strategy.
Land Use Policy 2027 doi:10.1016/j.landusepol.2026.108409
[2] Chunguang Hu, Kaixin Li, Hui Zeng. A parameterization-based framework for quantifying the cooling effects of urban blue-green spaces: Comparative evaluation with buffer and Gaussian models.
Remote Sensing of Environment 2026 doi:10.1016/j.rse.2026.115311
[3] Jinyu Hu, Zhaowu Yu, Huiwen Zhang, Yuxia Hu, Yujia Zhang, Wenjun Yang, et al.. Building Footprint Has a Stronger Land Surface Temperature Signal than Building Height across Global Cities.
Environmental Science & Technology 2026 doi:10.1021/acs.est.6c09652

[4] Feng Yue, Heng Zheng, Chunguang Hu, Jinglin He, Muyi Li, Chengyuan Wang, et al.. Climate and forest form divergences amplify spatiotemporal heterogeneity and environmental inequity in China's forest cooling services.
Frontiers in Environmental Science 2026 doi:10.3389/fenvs.2026.1938446
[5] Zhang, Xinyu, Hu, Jinyu, Xia, Tianyu, Mao, Yuheng, Li, Xin, Hu, Chunguang, et al.. Cooling varies with green space characteristics: Unraveling nonlinear spatial heterogeneity in cooling effects of urban green spaces with geographic explainable AI.
Environmental Impact Assessment Review 2026 doi:10.1016/j.eiar.2026.108401
[6] Feiyan Wu, Maomao Zhang, Chunguang Hu, Xufeng Cui, Pengtao Wang, Enqing Chen. Decoding the impact of land use change on summer land surface temperature using machine learning: insights from Yingtan, China.
Advances in Space Research 2026 doi:10.1016/j.asr.2025.09.061
[7] Feng Yue, Chunguang Hu, Shunwei Chen, Hui Zeng. Decoding urban heat and cold cores: spatiotemporal evolution and multidimensional drivers in hyper-urbanized regions.
Ecological Processes 2026 doi:10.1186/s13717-026-00724-2
[8] Shufei Fu, Yishen Liao, Tiangui Lv, Qiao Zhao, Anying Chen, Menghan Yuan, et al.. Driving factors and multi-scenario simulation of ecological resilience in the middle reaches of the Yangtze river metropolitan area.
Environment, Development and Sustainability 2026 doi:10.1007/s10668-026-07320-6
[9] Weizheng Ye, Enqing Chen, Chunguang Hu, Cheng Zhang, Maomao Zhang. Dynamic changes in land use/land cover and their impact on urban thermal environment: insights from remote sensing and predictive modeling.
Advances in Space Research 2026 doi:10.1016/j.asr.2026.08.039
[10] Anjian Song, Zhiyuan Zhang, Chunguang Hu, Luyao Wang. How geographic barriers mitigate urban PM2.5 pollution: Evidence from 282 cities in China.
Building and Environment 2026 doi:10.1016/j.buildenv.2025.114126
[11] Feng Yue, Chunguang Hu, Shunwei Chen, Hui Zeng. Identification and tracking of heat and cold cores in highly urbanized areas: spatiotemporal characteristics and evolutionary patterns.
International Journal of Digital Earth 2026 doi:10.1080/17538947.2026.2616889
[12] Jing Cheng, Rentao Liu, Peng Wang, Wenzhi Zhao, Chunguang Hu, Houbao Fan. Mapping ecological inequality across the urban-rural gradient of the Loess Plateau.
Urban Climate 2026 doi:10.1016/j.uclim.2026.102928
[13] Wenjie Xu, Xin Li, Mengmeng Zhang, Yuxuan Zou, Xiaohuan Gu, Chunguang Hu, et al.. MNOPNet: A Lightweight Rotated Object Detection Network for Small-Scale Wildfire Detection.
IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing 2026 doi:10.1109/jstars.2026.3739890
[14] Jianqiao Zhang, Chunguang Hu, Kaixin Li, Wenfeng Gu, Fenfen Yang, Hui Zeng. Optimizing blue-green infrastructure for sustainable urban cooling: nonlinear thresholds of internal attributes and built environments.
International Journal of Sustainable Development & World Ecology 2026 doi:10.1080/13504509.2026.2698121
[15] Chunguang Hu, Hui Zeng. Regulating thermal comfort via 2D and 3D urban morphology heterogeneity: Evidence from Beijing's local climate zones.
Cities 2026 doi:10.1016/j.cities.2026.107727
[16] Chunguang Hu, Chunqiang Li, Houbao Fan, Xiaohuan Gu, Xin Li, Jinyu Hu, et al.. Spatially heterogeneous impacts of 2D/3D urban form on thermal comfort: insights from urban functional zones.
Energy and Buildings 2026 doi:10.1016/j.enbuild.2026.118156
[17] Feng Yue, Zhuoxian Liu, Chunguang Hu, Heng Zheng, Jinglin He. Spatiotemporal non-stationarity and heterogeneity in atmospheric aerosol pollution regulation by subtropical urban green space: A GTNNWR-Based study in Shenzhen, China.
Environmental Pollution 2026 doi:10.1016/j.envpol.2026.127674
[18] Chunguang Hu, Xinyi Yang, Hui Zeng. Unraveling multifactorial drivers of urban phenology through precise quantification with high-spatiotemporal NDVI fusion.
Urban Forestry & Urban Greening 2026 doi:10.1016/j.ufug.2026.129413
[19] Anjian Song, Chunguang Hu, Yajuan Liang, Maomao Zhang. Unveiling spatially differentiated drivers of PM2.5 concentrations: Insights from multi-model urban environmental analysis.
Atmospheric Pollution Research 2026 doi:10.1016/j.apr.2025.102880
[20] Chunguang Hu, Hui Zeng. Unveiling urban heat exposure risk networks: a network analysis approach for mitigating thermal discomfort.
Landscape and Urban Planning 2026 doi:10.1016/j.landurbplan.2026.105725

[21] Chunguang Hu, Hui Zeng. Decoding spatial patterns of urban thermal comfort: Explainable machine learning reveals drivers of thermal perception.
Environmental Impact Assessment Review 2025 doi:10.1016/j.eiar.2025.107895
[22] Houbao Fan, Xiaobin Jin, Junjun Zhu, Zhouyao Zhang, Chunguang Hu, Han Hu, et al.. Differentiated landscape pattern transformation strategies drive territorial space carbon neutrality: A path exploration based on mixed land use units.
Sustainable Cities and Society 2025 doi:10.1016/j.scs.2025.106865
[23] Kun Liang, Zhihong Cao, Sheng Tang, Chunguang Hu, Maomao Zhang. Evaluating the Influence of Environmental, Social, and Governance (ESG) Performance on Green Technology Innovation: Based on Chinese A-Share Listed Companies.
Sustainability 2025 doi:10.3390/su17031085
[24] Jianqing Zhao, Chunguang Hu, Zhuoqi Li, Maomao Zhang, Houbao Fan, Kaili Li, et al.. Investigating the quantitative impact of the vegetation indices on the urban thermal comfort based on machine learning: A case study of the Qinhuai River Basin, China.
Sustainable Cities and Society 2025 doi:10.1016/j.scs.2025.106357
[25] Hongjia Zhu, Ao Wang, Pengtao Wang, Chunguang Hu, Maomao Zhang. Spatiotemporal Dynamics and Response of Land Surface Temperature and Kernel Normalized Difference Vegetation Index in Yangtze River Economic Belt, China: Multi-Method Analysis.
Land 2025 doi:10.3390/land14030598

Auto-generated from ORCID / OpenAlex public data on 2026-11-21T08:57:18Z. Full list: https://chunguang-hu.pages.dev/publications/