

Publications from the IMECOGIP-project

- Bührs M., Zepp H., Schmitt T. (2023): Potential of citizen science data driven species distribution models for habitat quality assessment in metropolitan areas – Insights from the IMECOGIP-toolbox development. Presentation at the 4th LAC Conference of Ecosystem Partnership La Serena, Chile.
- Bührs M., Zepp H., Schmitt T. (2024): Evaluating Urban Biodiversity: Effectiveness of Citizen Science Driven Species Distribution Models in Urban Ecosystems - A case study in the Ruhr Metropolis, Germany. *Erdkunde*.
<https://doi.org/10.3112/erdkunde.2024.03.03>
- Busch C., Specht K. (2023): Wertvolles Stadtgrün - Wie kulturelle Ökosystemleistungen in der Stadtplanung messbar gemacht werden können.
<https://www.ils-forschung.de/wissenstransfer/ils-publikationen/ils-impulse/?id=696>
- Busch C., Specht K., Inostroza L., Falke M., Zepp H. (2024): Disentangling cultural ecosystem services co-production in urban green spaces through social media reviews. *Ecosystem Services* 70, 101675. <https://doi.org/10.1016/j.ecoser.2024.101675>
- Dong N., Wang Y., Zepp H., Bührs M., Gruenhagen L., Busch C., Wei W. (2024): 从模型到应用：基于生态系统服务权衡的乡村生态修复规划工具研究 (Model to Application: A Study on a Decision Support Tool for Rural Ecological Restoration Planning Based on Ecosystem Services Trade-offs). *Landscape Architecture Academic Journal* 41 (3) 4-12.
<https://doi.org/10.12193/j.laing.2024.03.0004.001>.
- Gruenhagen L., Juergens C., Rienow A. (2023): Which toolset (InVEST/IMECOGIP Toolbox/i-Tree Eco) to use? - A comparative method assessment of carbon storage in urban street trees as an ecosystem service. Presentation at the 4th LAC Conference of Ecosystem Partnership, La Serena, Chile.
- Gruenhagen L., Juergens C. (2022): Multitemporal Change Detection Analysis in an Urbanized Environment Based upon Sentinel-1 Data. *Remote Sensing* 14 (4) 1043.
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- Zepp H., Bührs M., Gruenhagen L., Zhang T. (2025): IMECOGIP: Innovations and Applications. SURE Playbook: Cases, Methods, and Tools for Transformative Urban Research. Schwartz F., Slawski A., Vivienne Mayer V. (eds). (in preparation, manuscript accepted 08/2024).
- Zepp H., Falke J., Günther F., Gruenhagen L., Inostroza W., Zhou Q., Huang Q., Dong N. (2021): China's ecosystem services planning: will Shanghai lead the way? A case study from the Baoshan district (Shanghai). *Erdkunde* 75 (4), 271-293.
<https://doi.org/10.3112/erdkunde.2021.04.02>.
- Zepp H., Falke J., Günther F., Gruenhagen L., Zhou W., Huang Q., Dong N. (2022) (accepted in press): Interdisciplinary Assessment of Ecosystem Services to Foster Sustainable Development in Shanghai. *IMECOGIP Activity Report*. SURE solutions 1, 69–74.
- Zepp H., Falke J., Gan N., Dong N. (2023a): Stadtökologie – Urbanisierung und die Rolle der Grünen Infrastruktur. In: Hardaker S., Dannenberg P. (Hrsg.): China, 281-292. Springer Berlin Heidelberg, Berlin Heidelberg. https://doi.org/10.1007/978-3-662-66560-2_29.
- Zepp H., Gessner L., Gruenhagen L., Bührs M. (2023b): Modeling the cooling effect of urban green spaces: The neglected control variables of 'soil moisture' and 'biotope types'. *Urban Forestry & Urban Greening* 90, 128137.
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- Zepp H., Inostroza L. (2021): Who Pays the Bill? Assessing Ecosystem Services Losses in an Urban Planning Context. *Land* 10 (4), 369.
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- Zepp H., Inostroza L., Bührs M., Gruenhagen L., Busch C., Dong N. (2024a): EnhancES - An Open Source GIS-based Toolbox for Assessing, Mapping, and Enhancing Ecosystem Services. Presentation accepted at the 5th Conference of Ecosystem Partnership, Wageningen, Netherlands.
- Zepp H., Inostroza L., Bührs M., Gruenhagen L., Busch C., Dong N. (2024b): EnhancES - An Open Source GIS-based Toolbox for Assessing, Mapping, and Enhancing Ecosystem Services. *Ecosystem Services* (submitted).
- Zhang T., Zepp H., Dai D. (2025) (in preparation): Application of EnhancES for assessing the temporal change of carbon sequestration in the Yangtze River Delta Demonstration Zone, China.