

# Publikationen

## Bücher

1. UNU-IHDP (eds., 2014, member of editorial advisory board): Land, Water, and People. From Cascading Effects to Integrated Flood and Drought Responses. Summary for Decision-Makers. Bonn: UNU-IHDP, 32 pp.
2. Kröner, R., U. Steinhardt & **M. Volk** (Eds., 2001): Landscape balance and landscape assessment. – Springer: 304 pp.
3. Steinhardt, U. & **M. Volk** (Eds., 1999): Regionalisierung in der Landschaftsökologie: Forschung, Planung, Praxis. - Teubner-Verlag, 400 pp.
4. **Volk, M.** (1996): Geomorphodynamik eines vergletscherten hocharktischen Küstengebietes, Liefde- und Bockfjord, NW-Spitzbergen. – Selbstverlag, Giessen, 170 pp.

## Publikationen in rezensierten Zeitschriften (ISI)

### 2025

- White, S.E., F. Witing, C.H. Wittekind, **M. Volk** & M. Strauch (2025): Distilling the Pareto Optimal Front into Actionable Insights. *Environmental Modelling & Software* 191, 106508. DOI: <https://doi.org/10.1016/j.envsoft.2025.106508>
- Zhang, C., B. Su, M. Beckmann, S. Fang, Y. Xiao, H. Ma, N. Yan & **M. Volk** (2025): Emergency-based valuation of glacier ecosystem services: A case from the Tibetan Plateau. *Journal of Environmental Management* 374, 123966. DOI: <https://doi.org/10.1016/j.jenvman.2024.123966>.
- Rufino, P.R., B. Gücker, **M. Volk**, M. Strauch, F. da Silva Cardozo, I. Gonçalves Boéchat, M. Faramarzi & G. Pereira (2025): Modeling the Nexus of Climate Change and Deforestation: Implications for the Blue Water Resources of the Jari River, Amazonia. *Water* 17(5), 660. DOI: <https://doi.org/10.3390/w17050660>
- Heiß, I., F. Stegmann, M. Wolf, **M. Volk** & A. Kaim (2025): Supporting the spatial allocation of management practices to improve ecosystem services – an opportunity map approach for agricultural landscapes. *Ecological Indicators* 172, 113212. DOI: <https://doi.org/10.1016/j.ecolind.2025.113212>

### 2024

- Özdemir, A., **M. Volk**, M. Strauch & F. Witing (2024): The Effects of Climate Change on Streamflow, Nitrogen Loads, and Crop Yields in the Gordes Dam Basin, Turkey. *Water* 16, 1371; <https://doi.org/10.3390/w16101371>.
- Leone, M., F. Gentile, A. Lo Porto, G.F. Ricci, C. Schürz, M. Strauch, **M. Volk** & A.M. De Girolamo (2024): Setting an Environmental Flow regime under climate change in a data-limited Mediterranean basin with temporary river. *Journal of Hydrology: Regional Studies* 101698, <https://doi.org/10.1016/j.ejrh.2024.101698>
- Magnier, J., B. Fribourg-Blanc, T. Lemann, F. Witing, W. Critchley & **M. Volk** (2024): Natural/Small Water Retention Measures: their contribution to ecosystem-based concepts. *Sustainability* 16(3), 1308, <https://doi.org/10.3390/su16031308>
- Zhang, C., B. Su, M. Beckmann & **M. Volk** (2024): Emergency-based valuation of ecosystem services: Progress and perspectives. *Renewable and Sustainable Energy Reviews* 192, 114201, <https://doi.org/10.1016/j.rser.2023.114201>

### 2023

Zhang, C., W. Ran, S. Fang, S. Hu, M. Beckmann & **M. Volk**: Divergent glacier area and elevation changes across the Tibetan Plateau in the early 21st century. *Anthropocene* 44, 100419, <https://doi.org/10.1016/j.ancene.2023.100419>

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Witing, F., **M. Volk** & U. Franko (2023): Modeling Soil Organic Carbon Dynamics of Arable Land across Scales: A Simplified Assessment of Alternative Management Practices on the Level of Administrative Units. *Agronomy* 13, 1159, <https://doi.org/10.3390/agronomy13041159>

## 2022

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## 2020

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