

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. Krönert, 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

- Zhang, C., B. Su, M. Beckmann, S. Fang, Y. Xiao, H. Ma, N. Yan & **M. Volk** (2025): Emergy-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 Boëchat, 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>

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- 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): Emergy-based evaluation of ecosystem services: Progress and perspectives. *Renewable and Sustainable Energy Reviews* 192, 114201, <https://doi.org/10.1016/j.rser.2023.114201>

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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>

Derepasko, D., F. Witing, F.J. Peñas, J. Barquín & **M. Volk** (2023): Towards adaptive water management - Optimizing river water diversion at the basin scale under future environmental conditions. *Water* 15(18), 3289, <https://doi.org/10.3390/w15183289>

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Seppelt, R., S. Klotz, E. Peiter & **M. Volk** (2022): Agriculture and food security under a changing climate: An underestimated challenge. *iScience* 25, 10551, <https://doi.org/10.1016/j.isci.2022.105551>

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