

List of Publications (08/2026)



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Edited Volumes, Books, and Book Chapters

Liedtke, C., Welfens, J., Buschbeck, C., & Bickel, M. (2025). Ressourcen [Resources]. In C. Liedtke, & J. Welfens, *Wohlstand in Zeiten des Übergangs: Eine Neuvermessung für eine nachhaltige Zukunft [Prosperity in Times of Transition: A Reassessment for a Sustainable Future]* (pp. 112–144). oekom.

Journal Articles and Conference Contributions

Buschbeck, C., Meyer, P., Dicks, S., Bickel, M., Brandt, L., Ko, M. U., ... & Häusler, A. (2026). Combining topology optimization with targeted application of LMD additive manufacturing – A prospective LCA of laser-based aluminum processing. *Advances in Industrial and Manufacturing Engineering*, Article 100192. <https://doi.org/10.1016/j.aime.2026.100192>

Verkic, B., Schröder, E., Drees, K., Dosch, K., Buschbeck, C., & Greiff, K. (2026). Evaluation approach to assess actions and scenarios for improving climate and resource efficiency of municipalities and companies in industrial parks. *Journal of environmental management*, 398, Article 128442. <https://doi.org/10.1016/j.jenvman.2025.128442>

Buschbeck, C., & Teubler, J. (2025). Estimating future thresholds for the 15% eligibility criteria of the EU taxonomy with limited data availability. *SN Business & Economics*, 5(4), Article 36. <https://doi.org/10.1007/s43546-025-00807-w>

S. Rader et al. (2025), *GreEner Tech: Sustainable Technology for Medium-Voltage Switchgear Systems*, ETG Kongress 2025; Voller Energie – heute und morgen., Kassel, Germany, 2025, pp. 684–691. <https://ieeexplore.ieee.org/abstract/document/11201965/>

Buschbeck, C., & Pauliuk, S. (2022). Required displacement factors for evaluating and comparing climate impacts of intensive and extensive forestry in Germany. *Carbon balance and management*, 17(1), Article 14. <https://doi.org/10.1186/s13021-022-00216-8>

Buschbeck, C., Bitterich, L., Hauenstein, C., & Pauliuk, S. (2020). Multi-objective optimization identifies trade-offs between self-sufficiency and environmental impacts of regional agriculture in Baden-Württemberg, Germany. *Journal of Agriculture, Food Systems, and Community Development*, 10(1), 43–62. <https://doi.org/10.5304/jafscd.2020.101.003>

Selected Expert Reports, Policy Briefs, and Research Reports

Thiele, S., Wielgosch, J., Niederprüm, A., Stuck, J., Junk, P., Koska, T., Teubler, J., & Buschbeck, C. (2024). *Nachhaltigkeit im Postsektor*. Bundesnetzagentur.

<https://www.bundesnetzagentur.de/SharedDocs/Downloads/DE/Sachgebiete/Post/Studien/StudieNachhaltigkeit.pdf>

Other Selected Publications

Buschbeck, C., Pauliuk, S., Birk, S., Goldschmidt, K., Lu, C., Sadegh-Azar, H., ... & Graf, J. (2025).

Environmental assessment of circular economy strategies in an element-based multi-purpose wooden building. <https://doi.org/10.6094/UNIFR/268540>