

# Peer-review Publikationen Prof. Dr. Daniel Friedrich

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## Engineering

1. D. Friedrich, [Thermoforming of wood-plastic composites: a compolytics-approach translating combined polymer and policy analyses into industrial design principles](#), The International Journal of Advanced Manufacturing Technology 124 (2022).
2. D. Friedrich, [Effects on heat storage from hot-pressing of wood-plastic composites for thermoformed climate-regulating building skins](#), Journal of Energy Storage 53 (2022), 105106.
3. D. Friedrich, [Post-process hot-pressing of wood-polymer composites: Effects on physical properties](#), Journal of Building Engineering 46 (2022), 103818.
4. D. Friedrich, [Additive manufacturing of post-process thermoformed wood-plastic composite cladding](#), Automation in Construction 139 (2022), 104322.
5. D. Friedrich, [Change in key mechanical properties from postprocess hot pressing of commercial wood-plastic composites with different fibre contents](#), Polymer Bulletin (2022), <https://doi.org/10.1007/s00289-022-04251-w>.
6. D. Friedrich, [Thermoplastic moulding of Wood-Polymer Composites \(WPC\): a review on thermo-physical and geometric design options under hot-pressing technique](#), European Journal of Wood and Wood Products 80 (2022), 7-21.
7. D. Friedrich, [Thermoplastic moulding of Wood-Polymer Composites \(WPC\): a review on physical and mechanical behaviour under hot-pressing technique](#), Composite Structures (2021), 113649.
8. D. Friedrich, [Effects from natural weathering on long-term structural performance of wood polymer composites cladding in the building envelope](#), Journal of Building Engineering 23 (2019), 68-76.
9. D. Friedrich, [Comparative study on artificial and natural weathering of wood-polymer compounds: A comprehensive literature review](#), Case Studies in Construction Materials 9 (2018), e00196.
10. D. Friedrich, [An analytic algorithm-based method to assess the long term structural performance of wood-polymer composites](#), Journal of Building Engineering 20 (2018), 367-376.
11. D. Friedrich, A. Luible, [Measuring the wind suction capacity of plastics-based cladding using foil bag tests: a comparative study](#), Journal of Building Engineering 8 (2017), 152-161.
12. D. Friedrich, A. Luible, [Investigations on ageing of wood-plastic composites for outdoor applications: A meta-analysis using empiric data derived from diverse weathering trials](#), Construction and Building Materials 124 (2016), 1142-1152.
13. D. Friedrich, A. Luible, [Standard-compliant development of a design value for wood-plastic composite cladding: an application-oriented perspective](#), Case Studies in Structural Engineering 5 (2016), 13-17.

## Wirtschaftsingenieurwesen

14. D. Friedrich, [Can Bioplastics Drive the Sustainability Transition in Fashion Like in Other Industries? A Sector Comparison from Consumer Perspective](#), Materials Circular Economy 4 (2022), <https://link.springer.com/article/10.1007/s42824-022-00067-1>.
15. D. Friedrich, [Success factors of Wood-Plastic Composites \(WPC\) as sustainable packaging material: a cross-sector expert study](#), Sustainable Production and Consumption 30 (2022), 506-517.
16. D. Friedrich, [How building experts evaluate the sustainability and performance of novel bioplastic-based textile façades: An analysis of decision making](#), Building and Environment 207 (2022), 108485.
17. D. Friedrich, [What makes bioplastics innovative for fashion retailers? An in-depth analysis according to the Triple Bottom Line Principle](#), Journal of Cleaner Production 316 (2021), 128257.

18. D. Friedrich, [Benefits from sustainable development using bioplastics: A comparison between the food and fashion industries](#), Sustainable Development 29(5) (2021), 915-929.
  19. D. Friedrich, [Market- and business-related key factors supporting the use of compostable bioplastics in the apparel industry: a cross-sector analysis](#), Journal of Cleaner Production 297 (2021), 126716.
  20. D. Friedrich, [Attitude of building experts towards novel biobased wood-polymer façades under various properties: a choice-based experiment and impact analysis](#), Journal of Building Engineering 35 (2021), 102079.
  21. D. Friedrich, [Consumer and expert behaviour towards biobased wood-polymer building products: a comparative multi-factorial study according to theory of planned behaviour](#), Architectural Engineering and Design Management 18 (2021), 73-92.
  22. D. Friedrich, [Consumer behaviour towards Wood-Polymer packaging in convenience and shopping goods: a comparative analysis to conventional materials](#), Resources, Conservation & Recycling 163 (2020), 105097.
  23. D. Friedrich, A. Luible, [Assessment of standard compliance of Central European plastics-based wall cladding using multi-criteria decision making \(MCDM\)](#), Case Studies in Structural Engineering 5 (2016), 27-37.
  24. D. Friedrich, A. Luible, [Supporting the development process for building products by the use of research portfolio analysis](#), Case Studies in Construction Materials 4 (2016), 49-54.
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25. D. Friedrich, [Mixing fossil- and bio-polymers for internalisation of environmental damage: An evidence-based model-theoretical economic analysis](#), Ecological Economics 186 (2021), 107083.
  26. D. Friedrich, [Managing the technology transition towards biopolymers: a cross-sector expert study among German wholesalers](#), Technology Analysis & Strategic Management (2021), <https://doi.org/10.1080/09537325.2021.1985106>.
  27. D. Friedrich, [How environmental goals influence consumer willingness-to-pay for a plastic tax: a discrete-choice analytical study](#), Environment, Development & Sustainability 24 (2021), 8218–8245.
  28. D. Friedrich, [Comparative analysis of sustainability technologies in the apparel industry: an empirical consumer and market study](#), Journal of Environmental Management 289 (2021), 112536.
  29. D. Friedrich, [How regulatory measures towards biobased packaging influence the strategic behaviour of the retail industry: a microempirical study](#), Journal of Cleaner Production, 260 (2020), 121128.
  30. D. Friedrich, [Normative market regulation by means of early standardization: A descriptive policy analysis for the biobased industry](#), Journal of Cleaner production Journal of Cleaner Production 232 (2019), 1282-1296.
  31. D. Friedrich, [Welfare effects from eco-labeled crude-oil preserving Wood-Polymer Composites: A comprehensive literature review and case study](#). Journal of Cleaner Production 188 (2018), 625-637.
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32. D. Friedrich, [Effectiveness of Class Peer-Review under varied multiple review designs: A teaching method with homeschooling format](#), The Journal of Competency-Based Education 5 (2020), <https://doi.org/10.1002/cbe2.1227>.
  33. D. Friedrich, [Effectiveness of peer review as cooperative web-based learning method applied out-of-class in a role playing game: A case study by quasi-experimental approach](#), Journal of Smart Learning Environments (2019), <https://doi.org/10.1186/s40561-019-0102-5>.