



Paving the Way for Sustainability through the Use of Cork-Based Materials

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Message from the Guest Editor

Cork is a natural cellular material. Cellular materials have been used in many applications over the last several decades, from aerospace to construction, medicine and architecture, and are currently very popular, given their excellent cost/properties ratio. For these kinds of applications, several mechanical, thermal and acoustic properties must be taken into account.

Besides, after the rapid spread of oil-derived cellular materials such as expanded polystyrene, expanded polypropylene, EVA, etc., environmental concerns are pushing governments, consumers and producers to seek more sustainable materials. The main topics are here:

- Development of cork-based composite materials;
- Carbon footprint and life-cycle assessment of cork-based products;
- Evaluation of material properties (mechanical, thermal, acoustic, etc.);
- Study of cork materials at different length scales;
- New cork-based solutions as a sustainable alternative;
- Sustainability of the manufacturing processes of cork-based products.

We are cooperating with CSA 2023 (for more information, please click: <http://corkscience.web.ua.pt/>).





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