Special Issue

Advanced Applications of Sustainable Resins and Fibers in Polymer and Cementitious Composites

Message from the Guest Editor

Resins, fibers, and their composites play major roles in the production of lightweight materials, with applications in construction, wind turbine blades, automobiles, aircraft, aerospace, military, navy, biomedical, alternatives, etc. However, recently there have been many concerns regarding their toxicity, energy consumption during manufacturing, undegraded end-life product, and emissions. To motivate our scientific community to switch to sustainable industries and materials and encourage investment in them, we have launched this Special Issue to highlight new resins and their modification technologies, which have rendered them more eco-friendly, less toxic, and increased their performance. Similarly, we aim to showcase advances in the creation of new sustainable natural fibers, the modification of traditional fibers and their advanced applications in polymer and cementitious composites. Additionally, studies related to the investigation of the technical economy of manufacturing and the extraction of these materials within the concept of circular economy and their environmental impacts are very welcome as a contribution to the transition to the green economy.

Guest Editor

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Deadline for manuscript submissions

closed (20 May 2025)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/165300

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About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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