

Special Issue

Multifunctionalization of Polymer Composites for Improved Thermal Performance

Message from the Guest Editor

Polymer composites include a very large and diverse group of construction materials used in many areas of industry and in everyday life due to their low thermal conductivity and density. Among polymers, the most commonly used are thermosetting resins, chemically cured resins, and thermoplastics. Reinforcement is most common in the form of particles or fibres. Recently, one of the developing directions of research has focused on improving their thermal protection performance in the chemical and physical modification processes. This Special Issue is concerned with recent advances in the multifunctionalization of polymer composites, and is aimed at improving their properties, in particular their thermal performance. Topics may include new or commercially available synthetic or natural-based polymers as a matrix; their chemical and physical modifications; organic and inorganic reinforcements; and the thermal, mechanical, and optical properties of the formed composites, as well as their applications. Both original contributions and reviews are welcome.

Guest Editor

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Deadline for manuscript submissions

20 September 2025



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/229020

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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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