Special Issue

Fabrication, Characterisation and Application of Fibre-Reinforced Polymers and Composites

Message from the Guest Editors

New composites have been created by combining thermoplastic matrices with various reinforcements, including synthetic and natural fibres. The development of digital composites through additive manufacturing has expanded the use of composites to a broader community. Therefore, this Special Issue aims to provide a holistic overview of recent trends in the "Fabrication, Characterisation and Application of Fibre-Reinforced Polymers and Composites" using thermoplastic matrices. In this Special Issue, original research articles based on experiments, numerical modelling, and reviews on thermoplastic fibre-reinforced composites are welcome. The research areas may include (but are not limited to) the following:

- Fabrication—autoclave, hot-pressed, single/dual/biopolymer composite, and additive manufacturing;
- Characterisation—mechanical (uni/multiaxial, fracture, cyclic), thermal, tribology, ballistic, blast, microscopy, CT scan, and numerical modelling;
- Application—structural, thermal, and medical devices, upcycling and recycling.

We look forward to receiving your contributions.

Guest Editors

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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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