Special Issue

Innovative Composites for Sustainability

Message from the Guest Editor

Fibre-reinforced composites are essential for meeting current environmental and climate challenges. For automotive, polymeric matrix composites (PMC) are needed for weight reduction and safety increase, directly related to electrification megatrend and current urgency to reduce carbon emissions. Their recyclability (hopefully closing the loop, also called cradle-to-cradle recyclability), industrial processing, basic chemistry, and the possible exploitation of biobased feedstocks have to be evaluated in terms of environmental assessment (LCA), and PMC full mechanical characterisation is needed for FEM validation and CAE. Ceramic matrix composites are also asked to contribute to deal with current global emergencies, by unlocking more efficient renewable energy production and a reduction in C-emission from energy-demanding production of steel, glass, cement, and ceramic tiles. The development of reliable production processes, environmental barrier coatings, and advanced characterisation techniques is also a fundamental part of this path. It is my pleasure to invite you to submit a manuscript for this Special Issue.

Guest Editor

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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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