

Special Issue

Composite Materials: Functional Materials for Modern Technologies

Message from the Guest Editors

The purpose of this Special Issue is to provide an up-to-date overview of functional composites with both passive and active non-conventional properties. In passive materials, we aim to understand all systems that present a single response to a stimulus, such as resistors, capacitors, magnetic cores, battery cathodes, acoustic devices, electromagnetic metamaterials, and plasmonics. In recent years, new composites exhibiting coupled phenomena have arisen. These materials can be considered as active or tuneable composites, as their response to some stimuli may be modified by certain actions. This category includes composites showing magnetoresistance and magnetoimpedance, magneto-electric couplings, and electro and magneto-acoustic devices. Different aspects of these composites can be addressed, such as theoretical modelling, microstructural characterization, manufacturing and the characterization of new properties.

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Deadline for manuscript submissions

closed (10 June 2022)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/100937

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Message from the Editorial Board

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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