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Composite Materials: Functional Materials for Modern Technologies

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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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Message from the Editor-in-Chief

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