Special Issue

Recent Advances in Functional Composite Materials

Message from the Guest Editor

Functional composite materials are garnering increasing interest in advanced applications today due to their ability to impart unique properties not found in original materials. These composites can significantly enhance the performance of base materials by combining their best attributes. Functionality in polymer materials can be achieved through various unique processing methods, post-processing treatments, or the incorporation of micro/nanoparticles. For instance, incorporating conductive fillers into polymers can significantly enhance their electrical conductivity. Incorporating flame-retardant additives can improve the fire resistance of host polymers. Antimicrobial additives are extensively researched to develop functional composite materials for active food packaging. And so on. This Special Issue focuses on innovative fabrication techniques for advanced functional composite materials aimed at achieving specific desired properties.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2025)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/206056

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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