Special Issue

Design, Synthesis, and Applications of Advanced Functional Materials

Message from the Guest Editor

A particular focus of this issue is the molecular-level understanding and manipulation of materials, which underpins their properties and functionalities. Investigations into molecular design, self-assembly, and interfacial phenomena are critical for tailoring the behavior and performance of functional materials. Theoretical and computational approaches that elucidate molecular interactions and predict structureproperty relationships are especially encouraged. Topics of interest include, but are not limited to, nanomaterials, hybrid and composite materials. magnetic nanomaterials, stimuli-responsive systems, energy conversion and storage materials, smart biomaterials, and materials for environmental remediation. This interdisciplinary issue seeks to bridge fundamental research and real-world applications, providing a platform for researchers to present breakthroughs that advance the field of materials science and engineering.

Guest Editor

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Deadline for manuscript submissions

30 April 2026



International Journal of Molecular Sciences

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Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



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