# Special Issue

# Advances in Synthesis and Multiscale Characterization of Functional Polymeric Materials

# Message from the Guest Editor

We are pleased to invite you to contribute to this Special Issue, entitled "Advances in Synthesis and Multiscale Characterization of Functional Polymeric Materials." Functional polymers are increasingly important in energy, electronics, environmental technologies, and biomedicine due to their versatility and tunable properties. Advances in synthesis and multiscale characterization now enable the precise design and correlation of molecular structures with macroscopic performance, fostering both fundamental insights and practical innovations. This Special Issue aims to present recent developments in the synthesis, design, and multiscale analysis of functional polymeric materials. Emphasis will be placed on the relationship between structure, properties, and performance, highlighting contributions that demonstrate both methodological advances and application-oriented outcomes. The topic aligns with the journal's scope by integrating interdisciplinary research across chemistry, materials science, and engineering.

# **Guest Editor**

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### Deadline for manuscript submissions

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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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