

Special Issue

Advances in Polymer Composites: Design, Multifunctionality, and Structural Health Monitoring

Message from the Guest Editors

Polymer composites, combining synthetic or natural polymer matrices with high-performance reinforcements like fibers, particles, and nanomaterials, are essential in aerospace, transportation, infrastructure, energy, biomedical, and environmental applications. Their excellent specific strength, stiffness, corrosion resistance, lightweight nature, and tailored multifunctionality make them ideal for advanced structural and functional uses. This Special Issue highlights recent advances in the design, processing, characterization, and modeling of polymer composites, focusing on multifunctionality, durability, and structural integrity under diverse conditions. We welcome contributions on novel materials, advanced manufacturing, performance enhancement, and emerging NDE and SHM techniques. Studies on computational modeling, data-driven prediction, and smart sensor integration are also encouraged.

Guest Editors

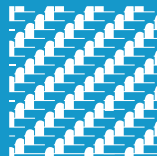
Dr. Hongye Liu

Dr. Zhenhua Tian

Prof. Dr. Zenghua Liu

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcs@mdpi.com

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Editor-in-Chief

Dr. Francesco Tornabene
Department of Innovation Engineering, University of Salento, 73100
Lecce, Italy

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