

Special Issue

Thermal Properties of Composite Materials

Message from the Guest Editor

This Special Issue highlights cutting-edge research on the thermal properties of composites, with emphasis on:

- Heat Transfer Mechanisms: Conduction (including gradient heat conduction), radiation, and their coupling in heterogeneous systems.
- Performance Optimization: Design strategies for enhancing heat resistance, conductivity, and radiative dissipation.
- Thermal Interface Materials (TIMs): Composites engineered to minimize interfacial thermal resistance.
- Anisotropic Thermal Management: Leveraging microstructural alignment for directional heat control.
- Multifunctional Integration: Materials balancing thermal, mechanical, and electrical properties.

We invite studies on experimental characterization, computational modeling, and novel material designs that address thermal challenges in high-power electronics, energy systems, hypersonic structures, and sustainable infrastructure. Submissions advancing fundamental theory or practical thermal management solutions are encouraged.

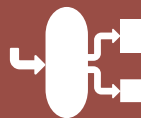
Guest Editor

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Deadline for manuscript submissions

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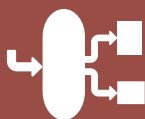


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