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Mechanical Behaviour of Advanced Metal and Composite Materials

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Message from the Guest Editors

Dear Colleagues,

We aim to collate original research and review papers on key topics related to advanced composite materials, including:

- Materials: short and long fibre-reinforced polymers, prepregs, hybrid materials, including metal/composite and hybrid/fibre composites, 3D printing materials, and bio-inspired structures.
- Industrial fields: aerospace, ground-based transportation, marine, renewable energies, civil engineering, sports and leisure, medical, and agricultural applications.
- Topics: structural optimisation, material design, multifunctional materials, structural health monitoring, mechanical properties of structures, advanced testing, numerical modelling, and material modelling at different scales.
- Structural behaviour investigation: standard and non-standard experimental methodologies (tensile, compressive, bending, shear, impact, etc.), uniaxial and multiaxial testing, study on anisotropy, fracture and damage (damage characterisation and modelling), joining of composite materials, multifunctional materials, applications of numerical techniques for advanced modelling, multiscale modelling, structural optimisation methods for lightweight design of structures.





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Editor-in-Chief

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Message from the Editor-in-Chief

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