



## Polymers and Polymeric Composites Application for Mechanical Engineering

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Deadline for manuscript  
submissions:

**25 August 2024**

### Message from the Guest Editor

Dear Colleagues,

Polymers and polymeric composites show viscoelasticity, which has been applied as a damping design for elastic wave energy dissipation in engineering practice, such as in the fields of aerospace, transportation, military and mechanical engineering. At present, with the trend towards energy conservation, lighter-weight and higher-speed design for mechanical structures and equipment, the acoustic and vibration problems are amplified, and the response structures are potentially larger and less desirable. Through the theory of elastic wave propagation in solid media and the energy dissipation mechanism of viscoelastic damping, polymers and polymeric composites can be considered efficient materials with the potential to conquer these issues. This Special Issue focuses on recent advances in polymers, polymeric composites and related applications for mechanical engineering in terms of elastic wave dissipation.

Dr. Xiaoqiang Zhou  
*Guest Editor*





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