## Special Issue

## Polymers and Polymeric Composites Application for Mechanical Engineering

## Message from the Guest Editor

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.

### **Guest Editor**

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### Deadline for manuscript submissions

closed (25 August 2024)



## **Polymers**

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Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

#### Editor-in-Chief

#### Prof. Dr. Alexander Böker

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