

Special Issue

Rubber Materials: Processes, Structures and Applications

Message from the Guest Editors

Based on their unique elasticity, viscoelastic, mechanical and chemical properties, and rubbers are versatile, valuable and irreplaceable technological materials for multiple applications (from tire technology, automotive or aerospace industry general rubber goods industry). To develop high performance and more sustainable rubber materials for advanced applications, this special issue is focused on in the current advances and future perspectives of the following aspects of rubber science and technology:

- Development of elastomeric materials with improved or new properties: Synthesis, modification and preparation of rubber and thermoplastic elastomer, alternative suitable additives, etc.
- Rubber compounding and processing: Novel nano-fabrication, nano-processing and 3D/4D printing in rubber materials.
- Structure-property relationships in rubber materials: Structure and dynamics of rubber materials (e.g., cutting-edge characterization approaches or novel analysis procedures).
- Smart and functional elastomers: Smart rubber materials with shape memory or self-healing properties, dielectric elastomers, rubber compounds with optical or magnetic properties.
- Rubber recycling.

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Message from the Editor-in-Chief

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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