

## Special Issue

# Vitrimers and Their Processing

### Message from the Guest Editors

Over the past decade, a new class of polymers (i.e., vitrimers) has received a great deal of attention in both academia and industry. Vitrimers possess high strength and high modulus, similar to thermoset polymers, while being recyclable and reprocessable, similar to thermoplastic polymers. This is due to the dynamic covalent chemistry in the backbone of polymer structures. Moreover, vitrimers can be fully recycled, reprocessed in a closed loop, and weldable and strong as virgin polymer. Additionally, carbon fibers might be reclaimed from the polymer structure non-destructively. Thus, this Special Issue aims to welcome those new findings in this research direction. This Special Issue welcomes experts working in vitrimer synthesis and processing, self-healing polymers, dynamic covalent chemistry, reversible reactions, sustainable chemistry, and simulations for vitrimers. These innovations might be in monomers, polymers, thermosets, composites, and other applications. All kinds of interrelated innovations in the polymers, chemistry, and composite industry related to vitrimers are warmly welcomed.

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### Guest Editors

Dr. Hafeezullah Memon

Prof. Dr. Steven Nutt

Prof. Dr. Yi Wei

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### Deadline for manuscript submissions

closed (30 May 2023)



## 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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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