

Special Issue

Advanced Polymeric Materials: Structure Property Relationships

Message from the Guest Editors

The idea that polymers consist of numerous elongated chains has been with us for a long time. Irrespective of whether the polymer is in a form of fiber, bulk plastic, thin coating, or adhesive, it consists of a backbone of covalently bonded atoms. The differences between final properties depend to an extent on the morphology, the network formation, the intermolecular secondary forces of homopolymers, and the interfacial forces of the constituents in hybrid polymer systems. Advanced polymeric materials are polymers that exhibit unique or enhanced properties relative to conventional polymers. Among them are polymer blends, nano- and microcomposites, electrically conductive and optically active polymers, biodegradable polymers, biomedical polymers, bioinspired polymers, dendrimers, hyperbranched polymers, and vitrimers. The objective of this Special Issue is to assemble research or review papers that can demonstrate the understanding and relationship between the structure and composition of advanced polymers with their unique properties, in the final processed part. This Special Issue seeks contributions from academic and research institutions as well as industrial entities.

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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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