Special Issue

Modification and Study on the Properties of Epoxy Resin

Message from the Guest Editor

Epoxy resin as one of the extensively used thermosetting synthetic resins, has a wide range of applications in the field of structural and functional materials, seeing that the high degree of cross-linking between molecules leads to superior mechanical behaviors, anti-corrosion ability and certain thermostability, as well as good processing formability and insulation. However, the internal stress, crosslinking degree and brittleness exhibits an uptrend after the curing of epoxy resin, coupled with the reduction of toughness, interchain mobility and weather fastness, which place restrictions on its application in the field of advanced composite materials. During the practical design and manufacture, the microstructural optimization and performance enhancement utilizing modification technology with regard to epoxy resin as a hot topic for current research still needs further research and exploration. The main motivation of Special Issue is to deliver new research perspectives and report recent research findings, The research field to be covered but are not limited to: Physical blending and chemical modification Algorithm modeling Practical applications.

Guest Editor

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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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