Special Issue

Rubber/Silica Composites

Message from the Guest Editor

SSBR/BR/silica composites are used for PCR tire tread compounds to obtain low rolling resistance and high wet grip performances. The application of silane coupling agents is the key technology for the dispersion of silica in the rubber/silica composites. The silanol group on the surface of silica and ethoxy group of coupling agents do the salinization reaction and sulfide group of the coupling agents, and rubber molecules do the grafting reaction. To control these reactions, various types of chemical structure of coupling agents and processing conditions such as mixing procedure, temperature, and time are being studied.

The aim of this Special Issue is to highlight the progress and fundamental aspects of tread compounds, such as rubber, silica, dispersion of silica, analysis of compounds, application of sustainable materials, and the processing parameters to increase the performance of tread compounds.

Guest Editor

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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

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