Special Issue

Thermal Management Using Polymers and Polymer Composites and Their Applications

Message from the Guest Editor

Efficient thermal management means an energy efficient system, it widely applied, like aerospace, automobiles, electric packaging, etc. Materials for such systems should help in effective dissipation of heat, improve performance and reliability for any application they are being employed. These objectives can be greatly achieved by employing efficient thermal management materials. Polymer based composite using fillers like ceramic, carbon and metallic for thermal conduction applications with low phonon scattering at the matrix-filler interface can result in highly enhanced thermal performance. Not only polymer composites but exploring the fundamental properties of heat conduction in polymer chains and engineering those properties can provide a new avenue for the design and development of heat dissipation materials using neat polymers itself without need of fillers. Overall, thermal management using polymers and its composites can provide a wide spectrum of approaches to achieve a desired thermal performance.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2022)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/68140

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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 4.9.

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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