Special Issue

Antimicrobial Food Packaging with Biodegradable Polymers: Preparation, Characterization and Applications

Message from the Guest Editor

The development, fabrication, and usage of biodegradable polymer composites is a main area of research. The study of biodegradable polymeric composites has allowed researchers to develop multiple bio-based materials and develop varied packaging applications such as smart packaging, edible packaging, active packaging, antimicrobial food packaging, etc. In recent years, the global demand for safe, fresh, and minimally processed food has driven significant advances in food packaging technologies. Among these, antimicrobial food packaging has emerged as a promising solution to enhance food safety, extend shelf-life, and reduce food waste. By actively killing spoilage and pathogenic microorganisms on the food surface or within the package headspace, antimicrobial packaging materials offer an effective defense against microbial contamination during storage, distribution, and handling. Antimicrobial food packaging is an advanced and active packaging technology designed to extend the shelf-life of food.

Guest Editor

Dr. Raja Venkatesan

School of Chemical Engineering, Yeungnam University, 280 Daehak-Ro, Gyeongsan 38541, Republic of Korea

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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/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.

Editor-in-Chief

Prof. Dr. Alexander Böker
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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