Special Issue

Recent Advances in Chitosan and Its Applications

Message from the Guest Editors

In addition to its intrinsic properties, such as renewability, antimicrobial activity, biodegradability, biocompatibility, hydrophilicity, and high adsorption capacity, chitosan has attracted particular attention as a versatile material due to its relatively low cost and the presence of characteristic functional groups in its structure. The amino and hydroxyl functional groups provide active sites that enhance solubility, enable chemical modifications, and improve adsorption capacity and catalyst immobilization, among others. Chitosan can be processed into diverse material forms, such as hydrogels, fibers, nanostructures, films, and coating, and has been extensively investigated across numerous fields, including pharmaceuticals, medicine, veterinary medicine, food technology, chemistry, energy, textiles, photocatalysis, and agriculture. The aim of this Special Issue is to highlight the most recent advances in chitosan-based materials and to explore their current and potential applications in the fields mentioned above and beyond.

Guest Editors

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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

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