



Advance in Preparation and Application of Chitosan, Chitin and Their Composites

Guest Editors:

Prof. Dr. Keiko Shirai

Prof. Dr. Maribel Plascencia-Jatomea

Dr. Neith Aracely Pacheco López

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Message from the Guest Editors

Chitin and chitosan are polymers with linear backbones composed of randomly distributed D-glucosamine and N-acetyl-D-glucosamine residues. N-acetyl-D-glucosamine units are predominant in chitin, which can be deacetylated for chitosan production. Solutions, edible films, coatings, hydrogels, fibers, nanostructured and electrospun materials, as well as composites have been formulated with chitosan and chitin. At present, the use of chitosan for the design of functional composites and biomaterials has increased for many applications such as a sorbent for the removal of organic and inorganic environmental pollutants in water, textile, paper and pulp, wound dressings, bio-based medicine with natural ingredients, drug and gene delivery systems, regenerative medicine, biopesticides, active coatings, sensors, food and beverage industries. Contributions to this Special Issue covering processing, modifications, applications of chitosan, chitin, composites and their derivatives are welcome.





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Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

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Polymers Editorial Office
MDPI, St. Alban-Anlage 66
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