

RECENT ADVANCES OF CHITOSAN- AND CELLULOSE-BASED MATERIALS: FROM PRODUCTION TO APPLICATION

GUEST EDITOR

Dr. Marc Delgado-Aguilar (Department of Chemical and Agricultural Engineering and Agrifood Technology, University of Girona, Spain)

DESCRIPTION

The present Topical Issue of e-Polymers aims at covering the ongoing research on disrupting biopolymers with the particular emphasis on, but not limited to, chitosan and cellulose. Both chitosan and cellulose, broadly known polysaccharides, exhibit excellent properties, making them highly competitive to synthetic polymers. Such biopolymers, as well as some others, will play a key role in the transition from the linear economy to the circular and biobased economy. Specifically, chitosan and cellulose can be transformed into nanostructures (i.e. nanofibers, nanoparticles, and even nanocrystals) with improved properties and characteristics, which make them good candidates to be used in different sectors, such as papermaking, composites, biomedicine, and environmental applications (e.g. water remediation). The proposed topics of this Topical Issue are presented below.

KEY TOPICS

- ▶ Functionalization of cellulose and chitosan
- ▶ Nanostructured cellulose and/or chitosan production and characterization
- ▶ Composites and nanocomposites based on cellulose and chitosan
- ▶ Biomedical applications of cellulose and chitosan: Wound dressings, drug delivery devices, 3D printing of hydrogels, etc.
- ▶ Water remediation systems based on cellulose and chitosan
- ▶ Biofilms for food packaging applications
- ▶ Cellulose and chitosan as food additives
- ▶ Paper-based packaging with functional properties
- ▶ Structural applications of biopolymers and biocomposites, including both thermoplastic and thermosets

HOW TO SUBMIT

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All submissions to the Topical Issue must be made electronically via the ScholarOne submission system: <https://mc.manuscriptcentral.com/epolymers>

All manuscripts will undergo the standard peer-review process (single-blind, at least two independent reviewers). When entering your submission via online submission system please choose “**Topical Issue: Chitosan, Cellulose, and other Biocomposites**”.

Submission of a manuscript implies that the work described has not been published before and it is not under consideration for publication anywhere else.

The deadline for submissions is **July 31, 2021**, but individual papers will be reviewed and published online on an ongoing basis. Accepted papers will be published in Vol. 21 (2021) of e-Polymers.

Contributors to the Topical Issue will benefit from:

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(**Dr. Krzysztof Dębniak, epolymers.editorial@degruyter.com**)