

Special Issue

Chitosan-Based Fibers and Nanofibers

Message from the Guest Editors

Chitosan, a derivative of the natural polysaccharide chitin, has biocompatibility, biodegradability (which applies both to the polymer and the products of its biodegradation), bactericidal activity, an absence of toxicity, and high sorption characteristics. Solubility in dilute solutions of acids and good fiber-forming properties facilitate the processing of this polymer into fibers and nanofibers. Due to such properties, chitosan-based fibrous materials have attracted much attention for applications in cosmetology, cell-replacement technologies, and medicine including tissue engineering. The application of yarn or threads containing chitosan fibers makes it possible to obtain textile materials with improved hygienic characteristics and high bactericidal properties. Modifying chitosan-based materials with other kinds of polymers or nanoparticles can contribute to the expansion of their application areas. The objective of this Special Issue, “Chitosan-Based Fibers and Nanofibers”, is to focus on actual research topics related to chitosan-based fibrous materials.

Guest Editors

Dr. Elena N. Dresvyannina

1. Institute of Biomedical Systems and Biotechnology, Peter the Great St. Petersburg Polytechnic University, Polytechnicheskaya Street 29, 195251 Saint Petersburg, Russia
2. Institute of Textile and Fashion, Saint Petersburg State University of Industrial Technologies and Design, Bolshaya Morskaya Street 18, 191186 Saint Petersburg, Russia

Dr. Vladimir Eugenievich Yudin

Institute of Macromolecular Compounds, Russian Academy of Sciences, Saint Petersburg (ex Leningrad), Russia

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

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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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