

## Special Issue

# Chitosan: Potential Applications in Pharmaceutical Industries and Medicine

### Message from the Guest Editors

This Special Issue is related to the high potential of chitosan in applications in biomedical and pharmaceutical fields. Chitosan, obtained by alkaline deacetylation from chitin, is a basic natural polysaccharide having excellent biocompatibility features and antimicrobial activity which foreseen its potential in many medical applications such as drug delivery systems, wound-healing agents, and scaffolds for peripheral nerve and chondral repair. The main drawback of chitosan are the weak mechanical properties and high solubility and fast release in aqueous solution. Different strategies can be exploited in order to improve them. All researchers working in the field are cordially invited to contribute original research papers or reviews to this Special Issue of *Materials*, which focuses on new chitosan processing methods, on the manufacturing of chitosan-based scaffolds and hydrogels for tissue engineering, on the design of innovative chitosan-based drug delivery systems, as well as on the characterization of chemical–physical properties with advanced analyses.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 December 2020)



## Materials

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### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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### Editor-in-Chief

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