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Chitin and Chitosan: Derivatives and Applications

Guest Editors:

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Deadline for manuscript submissions:
closed (30 November 2020)

Message from the Guest Editors

Chitin is a natural linear polysaccharide composed of β-(1–4)-poly-N-acetyl-D-glucosamine units. Chitosan is another nitrogen-containing polysaccharide consisting of β-(1–4)-poly-D-glucosamine units.

Both chitin and chitosan derivatives have excellent biological properties, including being nontoxic, mucoadhesive, hemocompatible, and biodegradable and possessing antitumor, antioxidant, and antimicrobial properties.

This Special Issue titled “Chitin and Chitosan: Derivatives and Applications” aims to gather studies concerning chitin, chitosan, and their derivatives. The main topics of interest are the preparation of chitin, chitosan, or its derivatives and their applications in medicine, cosmetics, the food industry, water treatments, etc. and the effects of these compounds against reactive oxygen species. For this Special Issue, high-quality research papers will be accepted along with review papers summarizing the state of the art of a specific area of this field of research.

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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