Special Issue

Gelatin: Chemistry, Characterization, Application

Message from the Guest Editor

This Special Issue is related to the chemistry, characterization and application of gelatin. Gelatin, obtained by chemical-thermal degradation of collagen, is one of the most employed biopolymers, thanks to its biodegradability, excellent biocompatibility, plasticity, adhesiveness, abundance, and low cost. The main drawbacks of gelatin as a material are its poor mechanical performance and its high solubility in aqueous environments, which can be improved through crosslinking or by combining the biopolymer with an inorganic filler. Gelatin-based materials could be developed and applied in multidisciplinary fields. All researchers working in the field are cordially invited to contribute original research papers or reviews to this Special Issue of Molecules, which focuses on gelatin new crosslinking methods, on the design and synthesis of gelatin-based biomaterials and scaffolds for osteochondral defect repair, on the performance of gelatin as tailored drug delivery systems, on the evaluation of novel gelatin-based materials for cosmetic and packaging applications, as well as on the characterization of chemical-physical properties with advanced analyses.

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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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