Special Issue

Biopolymers and Biohybrids for Human Health

Message from the Guest Editor

Biopolymers are polymeric biomolecules that are essential for creating and sustaining life. Proteins, polysaccharides, glycopolymers, and polynucleotides are examples of biopolymer constituents of biological cells. Biopolymers are widely used in tissue engineering, pharmaceuticals, drug encapsulation and delivery, etc. Hybridization of biopolymers with synthetic polymers and inorganics creates biohybrids with exquisite, dynamic, stimuli-responsive properties. Shaping of biopolymers and biohybrids into highly engineered 2D and 3D architectures using different processing techniques enhances functionality and smart capabilities. This Special Issue focuses on biopolymer and biohybrid materials for advanced applications in drug delivery, pharmaceuticals, wound healing, food, cosmetics, personal care, wearables, sensors, and other areas related to human health. We invite submissions of original research manuscripts reporting advances in functionalization and shaping of biopolymers and biohybrids with chemical, physical, or biochemical methods to create high-performance advanced materials for diverse applications in human health.

Guest Editor

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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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