

Special Issue

Advanced Bioengineering Approaches for Biopolymers and Composites

Message from the Guest Editors

Biopolymers and their composites are instrumental to biomedicine and other relative fields due to their inherent material and biological properties. The huge potential of biopolymers and composites is related to various bioengineering approaches that can design, produce, regenerate, manufacture, shape, functionalize, modify, and recycle biopolymers. Innovative and advanced bioengineering approaches can drastically widen the utility scope of biopolymers and tailor the functionality of biopolymers for specific biomedical and clinical needs. These approaches include but are not limited to 3D printing, gene editing, soft lithography, nanocomposites, freeze-casting, molecular machine, and double networks. In this Special Issue, we aim to provide a concise collection of some notable aspects of prominent bioengineering approaches for advancing the utility of biopolymers. We hope this issue will be valuable to many researchers in interdisciplinary fields and inspire more works on various bioengineered biopolymers.

Guest Editors

Dr. Xuan Mu

Dr. Morgan Hawker

Prof. Dr. Feng Wang

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

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Prof. Dr. Antonio Gil Bravo

INAMAT²-Departamento de Ciencias, Edificio de los Acebos,
Universidad Pública de Navarra, Campus de Arrosadía, 31006
Pamplona, Spain

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