1. Record Nr. UNINA9910595079003321

Autore	Mignon Arn
Titolo	Functional Natural-Based Polymers
Pubbl/distr/stampa	Basel, : MDPI Books, 2022
Descrizione fisica	1 electronic resource (776 p.)
Soggetti	Research & information: general Biology, life sciences Biochemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Natural polymers are already used for a variety of biomedical applications, including drug delivery, wound healing, tissue engineering, biosensors, etc. However, they have also found other applications, for example, in the food industry, the pharmaceutical industry, as firefighting materials, water purification, etc. Different polysaccharide and protein-based systems have been developed. They each have their properties that render them useful for certain applications such as the water solubility of alginate, the thermo-sensitivity of chitosan, the abundance of cellulose and starch, or the cell adhesion and proliferation of gelatin and collagen. This Special Issue will explore the design, synthesis, processing, characterization, and applications of new functional natural-based polymers.

2. Record Nr. UNINA9910557900103321

Autore	Kormas Konstantinos Ar
Titolo	Advancing Knowledge on Cyanobacterial Blooms in Freshwaters
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020
Descrizione fisica	1 electronic resource (202 p.)
Soggetti	Research & information: general Biology, life sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Cyanobacterial blooms are a water quality problem that is widely acknowledged to have detrimental ecological and economic effects in drinking and recreational water supplies and fisheries. There is increasing evidence that cyanobacterial blooms have increased globally and are likely to expand in water resources as a result of climate change. Of most concern are cyanotoxins, along with the mechanisms that induce their release and determine their fate in the aquatic environment. These secondary metabolites pose a potential hazard to human health and agricultural and aquaculture products that are intended for animal and human consumption; therefore, strict and reliable control of cyanotoxins is crucial for assessing risk. In this direction, a deeper understanding of the mechanisms that determine cyanobacterial bloom structure and toxin production has become the target of management practices. This Special Issue, entitled “Advancing Knowledge on Cyanobacterial Blooms in Freshwaters”, aims to bring together recent multi- and interdisciplinary research, from the field to the laboratory and back again, driven by working hypotheses based on any aspect of mitigating cyanobacterial blooms, from ecological theory to applied research.