



Polymers

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Special Issue Reprint

## Polysaccharide-Based Materials

**Edited by: Andrés Gerardo Salvay**

This Reprint collects the most recent advances in the development and functional characterisation of polysaccharide-based materials. The contributions highlight the exceptional versatility of polysaccharides as sustainable and functional building blocks for advanced material systems. Through innovative processing strategies, controlled chemical modifications, and synergistic combinations with other biopolymers, the studies demonstrate how cellulose, chitosan, alginate, hyaluronic acid, starch, and kefiran can be engineered to obtain materials with tailorable mechanical, electrical, and biological properties. The reported applications span a broad range of fields, including flexible sensors, biomedical hydrogels, sustainable packaging, wastewater treatment, and soil stabilisation. Overall, this Reprint offers valuable insights into the design of next-generation polymeric materials, supporting the development of sustainable and high-performance engineering solutions.

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