

Special Issue

Synthesis and Applications of Natural and Synthetic High-Molecular and Polymer Compounds: A Molecular Perspective

Message from the Guest Editor

Natural and synthetic high-molecular compounds are commonly used in the food industry, pharmaceuticals, and cosmetology as carriers for bioactive substances, such as antioxidants, polyphenols, and vitamins. For instance, fruit-derived pectin (polysaccharides) can regulate the release of bioactive compounds in the digestive tract. Additionally, polymers like microcrystalline cellulose, sodium alginate, and hyaluronic acid play crucial roles. Polysilanolols are also important compounds for storage and controlled release. This Special Issue aims to promote new materials based on high-molecular-weight and biologically active compounds, both synthetic and isolated from natural products, covering their synthesis, characterisation, and potential applications. The optimal use of bioactive compounds can contribute to improving our diet, health, and beauty.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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