



Bio-Based Polyelectrolytes: Development and Applications

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Message from the Guest Editors

Dear Colleagues,

In recent years, natural-based polyelectrolytes, also called bio-polyelectrolytes, have started catching the attention of the research community. The big advantage is that these molecules of different origin are biodegradable, usually nontoxic, and, also very important, they quite often correspond to the valorization of waste materials. Some examples of these bio-polyelectrolytes are chitosan-based; cellulose-based; lignin-based; starch-based; alginate-based; and pectin-based polyelectrolytes as well as polyelectrolytes produced by micro-organisms.

In this Special Issue, the objective is to bring together new developments in the field of bio-polyelectrolyte (natural-based polyelectrolyte) production, including use of different raw materials, pretreatment of the raw materials, waste valorization, modification procedures, toxicity and biodegradability evaluation, characterization methodologies, assembly of polyelectrolytes, and application in different fields, including industrial application

Deadline for manuscript submissions:

closed (10 December 2020)



mdpi.com/si/35227



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