Special Issue

Materials from Biosourced Monomers

Message from the Guest Editors

Given the constraints dictated by the environment and current policies, it is urgent to conceive and develop novel molecular bricks and materials from biosourced components in order to replace petroleum-based monomers and to compete with the existing petroleum-sourced materials. Those biosourced molecules are very interesting synthons, thanks to the presence of alcohol, acid or amine functional groups, that can be polymerized by condensation reaction and yield biosourced polyesters or polyamides with interesting mechanical properties. This pathway to bioplastics remains one of the most explored nowadays. Alternatively, chain-growth polymerization of biosourced monomers is also an interesting pathway leading to biopolymer synthesis. Indeed, despite a lower number of naturally occurring molecules presenting polymerizable vinyl bonds, FRP and RDRP of such monomers is an expanding field. This Special Issue concerning (nano)materials prepared from biosourced monomers aims to cover recent advances in the synthesis of all types of monomers derived from biomass, their use to prepare new biosourced (nano)materials and the study of their properties and applications.

Guest Editors

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