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TOWARDS A SUSTAINABLE PRODUCTION OF GREENER LATEXES

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Producing polymeric materials for applications such as coatings with lower environmental impact is an important challenge of industry nowadays. Waterborne dispersed polymers are the green alternative to solvent-based systems. The replacement of petroleum-based monomers by renewable resources is another green approach. Moreover, the minimization of the release of Volatile Organic Compounds (VOC), such as the low-molecular weight emulsifiers, is another aspect to be taken into consideration. In this talk, I will describe the use of carbohydrate bio-based monomers to synthesize novel waterborne polymeric materials for coating applications. Their synthesis to undergo free radical polymerization will be presented as well as the polymer synthesis via emulsion polymerization. Finally, an alternative to reduce the VOC release to the environment will be discussed.

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