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Authors: Céline Fantou, Audrey N. Roy, Emmanuelle Dé, Sébastien Comesse, Michel Grisel, Frédéric Renou



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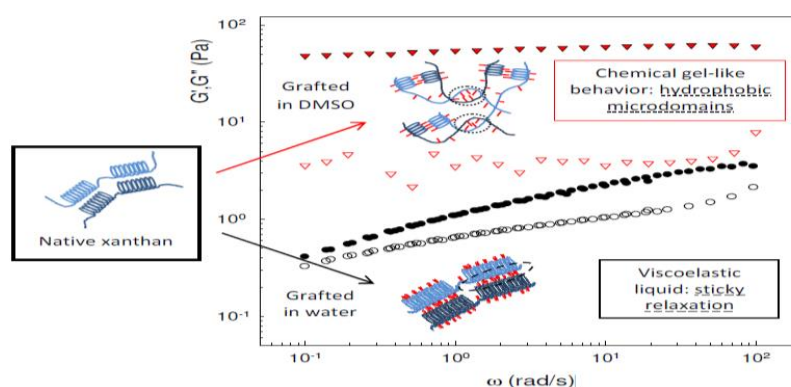
Céline Fantou^a, Audrey N. Roy^a, Emmanuelle Dé^b, Sébastien Comesse^a, Michel Grisel^a, Frédéric Renou^{a*}

^a NormandieUniv, UNILEHAVRE, FR 3038 CNRS, URCOM, 76600 Le Havre, France.

^b Normandie Univ, UNIROUEN, INSA Rouen, CNRS, Polymers, Biopolymers, Surface laboratory UMR 6270 CNRS, FR 3038 CNRS, 76000 Rouen, France

*Corresponding author: Frédéric Renou frederic.renou@univ-lemans.fr

GRAPHICAL ABSTRACT



Highlights:

- New and efficient procedure to modify xanthan under its disordered conformation
 - Xanthan ordering evolves oppositely depending on its conformation
 - Rheological properties are completely different depending on xanthan conformation
 - Viscoelastic properties are correlated to the regioselectivity of the grafting
- Abstract

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