

Soft.Matter@PT 2015

Loic Hilliou

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Expertise: Interfaces and wetting of simple fluids and liquid crystals

	Colloids	Liquid Crystals	Polymers and Gels	Interfaces, surfactants	Foams, emulsions	Granular materials	Biological	Rheo-optics
Experimental	✓	✓	✓					✓
Computacional								
Theoretical			✓					

Description of expertise:

- Rheology, SALS, rheo-NMR.
- Extrusion of polymer blends and composites: structure-properties relationship.
- On-line and in-line monitoring of extrusion based processes.
- Biodegradable plastics.
- Carrageenans: from seaweeds biology to hydrogel properties.
- Bitumen and polymer modified bitumen

Selected Publications (max 5):

- *Impact of cultivation of *Mastocarpus stellatus* in IMTA on the seaweeds chemistry and hybrid carrageenan properties*, [*Carbohydrate Polymers*, 116, 140 \(2015\)](#).
- *Predicting extrusion instabilities of commercial polyethylene from non-linear rheology measurements*, [*Rheologica Acta*, 53, 817 \(2014\)](#).
- *Hybrid carrageenans: isolation, chemical structure, and gel properties*. [*Advances in Food and Nutrition Research*, 72, 17 \(2014\)](#).

- *A rheo-optical study of stress-fluctuations coupling in a disordered and entangled diblock copolymer solution*, [Macromolecules](#), *41*, 3328 (2008).
- *Abnormal viscoelastic behavior of side-chain liquid-crystal polymers*, [Physical Review Letters](#), *72*, 2109 (1994).