

Soft.Matter@PT 2015

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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	Other (specify)
Experimental	✓			✓				
Computacional	✓			✓				
Theoretical								

Description of expertise:

- Fluorinated surfactants
- Measurement of surface/interfacial tension.
- Langmuir films
- Molecular dynamics simulations.

Selected Publications (max 5):

- Cation Alkyl Side Chain Length and Symmetry Effects on the Surface Tension of Ionic Liquids, *Langmuir* 30, 6408 (2014).
- Evidence for Interaction with the water subphase as the origin and stabilization of nano-domain in semi-fluorinated alkanes monolayer at the air-water interface, *Langmuir* 30, 15193 (2014).
- Highly Organized Crystalline Monolayer of a Semi-Fluorinated Alkane on a Solid Substrate obtained by spin-coating, *Thin Solid Films* 519, 414 (2010).
- Vapor Pressure of Perfluoroalkylalkanes: The Role of the Dipole, *J. Phys. Chem. B* 119, 1623 (2015).
- Nanoscale pattern formation in Langmuir-Blodgett films of a semifluorinated alkane and a polystyrene-poly(ethylene oxide) diblock copolymer, *Nano Letters* 2, 1083 (2002).