

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:

- Experimental evaluation of surface and interfacial tension.
- Molecular reasoning of interfacial properties.

Selected Publications (max 5):

- New Thermodynamics for Evaluating the Surface-phase Enrichment in the Lower Surface Tension Component, *ChemPhysChem*, 15, 2834-2843 (2014).
- Iron(III) Extraction from Chloride Media by N,N'-tetrasubstituted Malonamides: An Interfacial Study, *J. Colloid Interface Sci.* 413, 78–85 (2014)
- Studies on the density, heat capacity, surface tension and infinite dilution diffusion with the ionic liquids [C4mim][NTf2], [C4mim][dca], [C2mim][EtOSO3] and [Aliquat][dca], *Fluid Phase Equilibria*, 294 (1-2), 157-179 (2010).
- Synthesis, surface active properties and antimicrobial activity of new alkyl 2,6-dideoxy-L-arabino-hexopyranosides, *Carbohydrate Research*, 340,191-201(2005).
- Interactions of selected Flavonoids with NaDS micelles, *Progress in Colloid and Polymer Sci.*, 123, 73-77,(2004)