

Soft.Matter@PT 2015

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Expertise: Complex colloids on substrates and at interfaces

	Colloids	Liquid Crystals	Polymers and Gels	Interfaces, surfactants	Foams, emulsions	Granular materials	Biological	Other (specify)
Experimental								
Computacional	✓			✓				
Theoretical	✓			✓				

Description of expertise:

- Computational methods.
- Monte Carlo simulations of the aggregation of patchy colloids on substrates and interfaces.
- Molecular dynamics simulations of the relaxation dynamics of films of complex colloids.

Selected Publications (max 5):

- Adsorbed films of three-patch colloids: Continuous and discontinuous transitions between thick and thin films, C. S. Dias, N. A. M. Araújo, and M. M. Telo da Gama. [Physical Review E 90, 032302 \(2014\)](#).
- Kinetic roughening of aggregates of patchy colloids with strong and weak bonds, C. S. Dias, N. A. M. Araújo, and M. M. Telo da Gama. [EPL 107, 56002 \(2014\)](#).
- Mixtures of functionalized colloids on substrates, C. S. Dias, N. A. M. Araújo, and M. M. Telo da Gama. [Journal of Chemical Physics 139, 154903 \(2013\)](#).
- Non-equilibrium adsorption of 2AnB patchy colloids on substrates, C. S. Dias, N. A. M. Araújo, and M. M. Telo da Gama. [Soft Matter 9, 5616 \(2013\)](#).
- Nonequilibrium growth of patchy-colloid networks on substrates, C. S. Dias, N. A. M. Araújo, and M. M. Telo da Gama. [Physical Review E 87, 032308 \(2013\)](#).