

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:

- Statistical Physics.
- Numerical simulations.
- Phase transitions and critical phenomena.
- Physics of colloids and granular materials.

Selected Publications (max 5):

- *Explosive percolation via control of the largest cluster*, [Physical Review Letters 105, 035701 \(2010\)](#).
- *Fracturing highly disordered materials*, [Physical Review Letters 109, 255701 \(2012\)](#).
- *Midair collisions enhance saltation*, [Physical Review Letters 111, 058001 \(2013\)](#).
- *Kinetic roughening of aggregates of patchy colloids with strong and weak bonds*, [EPL 107, 56002 \(2014\)](#).
- *Explosive electric breakdown due to conducting-particle deposition on an insulating substrate*, [Physical Review Letters 113, 155701 \(2014\)](#).