

# Soft.Matter@PT 2015

## Ana Almeida

Institution: Cenimat – I3N and DCM FCT-UNL

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ResearchGate:

**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		✓	✓	✓	✓		✓	✓ <b>Supercritical Fluids</b>
Computacional								
Theoretical								

### Description of expertise:

- Static and Dynamic Contact angle measurements, Surface free energy calculations and adhesion measurements determination.
- Liquid crystalline cellulose based systems and active materials.
- Synthesis/preparation and characterization of novel polymers fibers: Electrospinning, Force-spinning and electrospray.
  - Biological properties of the active components assessed at cellular level in appropriate cell lines searching for protection responses to environmental stresses and cell death signals.
  - Antimicrobial efficiency test of fibers.
  - Encapsulation and micronization of active compounds using non conventional techniques, namely supercritical Fluid technology.

### Selected Publications (max 5):

- *Down conversion photoluminescence on PVP/Ag-nanoparticles electrospun composite fibers*, [Optical Materials 39 \(2015\) 278–281](#)

- *Microencapsulation of Oregano essential oil in starch-based materials using Supercritical Fluid Technology*, [Innovative Food Science & Emerging Technologies, 20, 140-145, \(2013\).](#)
- *Supercritical fluids strategies to produce hybrid structures for drug delivery in Novel Concepts in Drug Delivery*, [Journal of Controlled Release, 148, e7–e20 \(2010\).](#)
- *Processing Triacetyl- $\beta$ -Cyclodextrin in the liquid phase using supercritical CO<sub>2</sub>*, [Journal of Supercritical Fluids 54, 357-361 \(2010\).](#)
- *Processing cherries (*Prunus avium*) using supercritical fluid technology. Part 2- Evaluation of SCF extracts as promising natural chemotherapeutical agents*, [Journal of Supercritical Fluids, 55, 1007-1013 \(2011\).](#)