

# Soft.Matter@PT 2015

## Susete Nogueira Fernandes

Institution: CENIMAT/I3N, FCT/UNL

E-mail: [sm.fernandes@fct.unl.pt](mailto:sm.fernandes@fct.unl.pt)

Web: <http://www.cenimat.fct.unl.pt/people/susete-nogueira-fernandes>

ResearcherID: J-5065-2013

LinkedIn: <https://pt.linkedin.com/pub/susete-fernandes/a/b07/756>

ResearchGate: [https://www.researchgate.net/profile/Susete\\_Fernandes](https://www.researchgate.net/profile/Susete_Fernandes)

**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:

- Organic and polymer synthesis and characterization. Synthesis of liquid crystals and cellulose derivatives.
- Preparation of micro and nano- membranes/wires/structures from liquid crystalline solutions, to originate high-added value materials.

### Selected Publications (max 5):

- *Structural Color and Iridescence in Transparent Sheared Cellulosic Films*, [\*Macromol. Chem. Phys.\*, 214 \(1\), 25-32, 2013. Journal's front cover](#)
- *A cellulose liquid crystal motor: a steam engine of the second kind*, [\*Scientific Reports\*, 3, article number 1028, 2013.](#)
- *Nanocrystalline Cellulose Applied Simultaneously as Gate Dielectric and Substrate on Flexible Field Effect Transistors*, [\*Nanotechnology\*, 25 \(9\), Article number 094008, 2014 Journal's front cover](#)
- *<sup>1</sup>H-<sup>2</sup>H Cross-Relaxation Study in a Partially Deuterated Nematic Liquid Crystal*, [\*Journal of Physical Chemistry B\*, 118, 5600-5607, 2014](#)

- *Revealing the Hierarchical Mechanical Strength of Single Cellulose Acetate Electrospun Filaments through Ultrasonic Breakage*, [Macromol. Rapid Commun.](#)  
[DOI: 10.1002/marc.201500087 \(2015\)](#).