Soft.Matter@PT 2015

Paulo Teixeira

Institution:	ISEL and CFTC - University of Lisbon
E-mail:	piteixeira@fc.ul.pt
Web:	http://cftc.cii.fc.ul.pt/membro.php?username=paulo
ResearcherID:	A-2682-2009
LinkedIn:	https://pt.linkedin.com/pub/paulo-ivo-teixeira/6/9b1/9a9
ResearchGate:	https://www.researchgate.net/profile/Paulo_Teixeira4

Expertise: Interfaces	and wetting of sir	nole fluids and li	ouid crystals
Experies. Interfaces	and motting of on	npio nalao ana n	quiù oryotaio

	Colloids	Liquid	Polymers	Interfaces,	Foams,	Granular	Biological	Other
		Crystals	and Gels	surfactants	emulsions	materials		(specify)
Experimental								
Computational	1	1		1				
Theoretical	1	1	1	1	1			

Description of expertise:

- Calculation of phase behaviour of simple fluids using thermodynamic theories.
- Calculation of density profiles and surface tension using density-functional theory.
- Calculation of structure of confined liquid crystals using density-functional theory.
- Calculation of phase behaviour of patchy colloids using Wertheim's theiry.
- Calculation of the structure of liquid foams.
- Modelling phase separation in polymer blends and solutions.

Selected Publications (max 5):

- Reentrant phase diagram of network fluids, Physical Review Letters 106, 085703 (2011).
- Helical twisting of electrospun cellulose-based micro- and nanofibres, Advanced Materials 20, 4821 (2008).
- Ordering of hard particles between hard walls, Journal of Physics: Condensed Matter 13, 4715 (2001).
- The effect of dipolar forces on the structure and thermodynamics of classical fluids, Journal of Physics: Condensed Matter 12, R434 (2000).