

Soft.Matter@PT 2015

Eduardo F. Marques

Institution:	CIQ-UP (Centro de Investigação em Química) – University of Porto
E-mail:	efmarque@fc.up.pt
Web:	http://orcid.org/0000-0002-3892-9216
ResearcherID:	http://www.researcherid.com/rid/A-8081-2012
Scopus Author	http://www.scopus.com/authid/detail.url?authorId=7005196029

Expertise: Surfactant self-assembly, polymer-surfactant systems, vesicles

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

Description of expertise:

- Experimental studies (phase behavior, microstructure characterization and thermodynamics) with support from computational simulations
- Characterization of cationic/anionic surfactant mixtures, polymer-surfactant mixtures and gels, and surfactant-carbon nanotube systems
- Lyotropic and thermotropic liquid crystals from novel surfactants
- Synthetic vesicles as colloidal vectors for drug and gene delivery

Selected Publications (max 5):

- *Size, Charge, and Stability of Fully Serine-Based Catanionic Vesicles: Towards Versatile Biocompatible Nanocarriers*, [Chem. Eur. J. 21, 4092 – 4101 \(2015\)](#)
- *Lateral Diffusion of Dispersing Molecules on Nanotubes As Probed by NMR*, [J. Phys. Chem. C 118, 582–589 \(2014\)](#)
- *Morphology, Thermal Behavior, and Stability of Self-Assembled Supramolecular Tubules from Lysine-Based Surfactants*, [J. Phys. Chem. B 117, 9400–9411 \(2013\)](#)
- *Aqueous phase behavior of salt-free catanionic surfactants: the influence of solubility mismatch on spontaneous curvature and balance of forces*, [Soft Matter, 7, 225-236 \(2011\)](#)
- *The effect of cationic gemini surfactants upon lipid membranes. An experimental and molecular dynamics simulation study*, [Phys. Chem. Chem. Phys. 12, 14462–14476 \(2010\)](#)