

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			✓	✓				Fluorescent Nanoparticles and organic molecules for imaging
Computacional								
Theoretical								

Description of expertise:

- Steady-state and time-resolved optical spectroscopy
- Two-photon absorption
- Confocal and Multiphoton imaging and Fluorescence Lifetime Imaging

Selected Publications (max 5):

- (1) New Kind of Hyperbranched Conjugated Polymers Containing Alkyl-Modified 2,4,6-Tris(thiophen-2-yl)-1,3,5-triazine Unit for Enhancing Two-Photon Absorption, *Macromol.* **2014**. DOI:10.1021/ma500914v
- (2) Molecular architecture effects in two-photon absorption: from octupolar molecules to polymers and hybrid polymer nanoparticles based on 1,3,5-triazine, *J Mater Chem* **2013**. DOI: 10.1039/c3tb20107d.
- (3) Photoconductive response in organic charge transfer interfaces with high quantum efficiency, *Nat Commun.*, **2013**. DOI: 10.1038/ncomms2890
- (4) A V-shaped cationic dye for nonlinear optical bioimaging, *Chem Commun*, **2011** DOI: 10.1039/c1cc12163d