

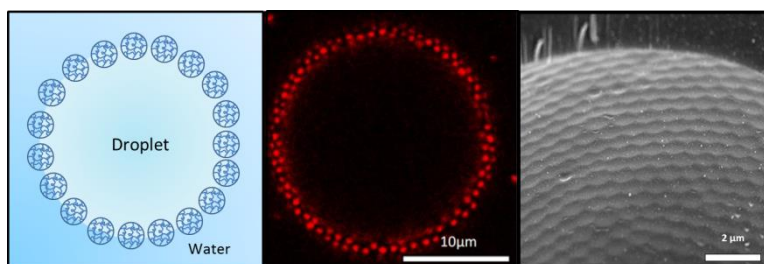


PhD Offer

Formulation of nanogel-stabilized emulsions and innovative materials prepared thereof

Some emulsions can be kinetically stabilized by nanogels that can be sensitive to one or several stimuli such as temperature, pH, etc. These systems are particularly attractive for applications in which phase separation of the two immiscible phases is required, because it can be activated on demand. Depending on synthesis conditions and chemical composition of the nanogels, and also depending on formulation parameters or process, a broad variety of emulsions with different properties can be prepared, exhibiting various flow/optical properties.

During this PhD thesis, novel nanogels and emulsions will be prepared. Emulsion stability and properties will be studied and exploited to prepare original materials such as porous structures/foams/capsules.



Applicant profile: Background in physical chemistry, colloids and polymers.

Financial support : Expected fellowship from the Ministry of Research.

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