



ISTITUTO ITALIANO  
DI TECNOLOGIA

## TITLE

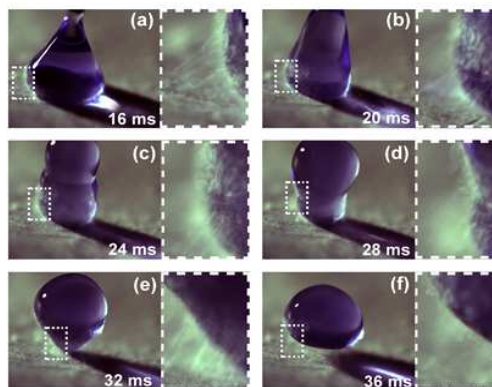
Liquid encapsulation process

## INVENTORS

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## DESCRIPTION

Globular microstructures comprising a liquid core and a solid shell that envelops the core comprising the micro- or nanofiber polymer, preferably obtained by electro-spinning, comprising a hydrophobic polymer or a mixture of polymer with hydrophobic polymers derived from cellulose or polyacrylates; microstructures may have an additional coating of nanoparticles or polymer. The microstructures have applications similar to those of the "liquid marbles" with improved mechanical properties.



## APPLICATIONS

Sensors (gas, liquid), microreactors, systems for drug delivery, manipulation and transport of small quantities of liquids, pickering emulsions.

## KEYWORDS

Liquid encapsulation; electrospinning; fibrous shell; hydrophobic fibers

## BIBLIOGRAPHIC DATA

Procedimento per l'incapsulazione di un liquido

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