

# Departmental Lecture

Antwerp Young Minds – Department of Physics

## Preparation and Processing of Multicomponent Materials at Liquid/Liquid Interfaces: Thin Films for Enlarging Technological Applications

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The interface between immiscible liquids to synthesize, stabilize and process complex materials as transparent and conductive thin films has a huge potential to be applied in different technological systems and devices. Examples of multicomponent materials combining carbon nanostructures (nanotubes, graphene), 2D materials, Prussian blue analogues, metal nanoparticles and conducting polymers will be presented. Unique preparation routes will be highlighted, as well as its structure/properties relationship, thin film deposition over several solid substrates and application in flexible and transparent aqueous metal-ion batteries, supercapacitors, electrochromic devices, solar cells, as transparent electrodes, and as catalysts.

Tuesday 29<sup>th</sup> August

15h00	G.US.024	Colloquium
16h00	G.US.Hall	Reception



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