



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Nanotechnology with Organic Matter: Where have we been? Where are we going?

2122-79R-M4

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#### Title

Nanotechnology with Organic Matter: \_\_\_\_\_

#### Teacher(s)

Prof. G. Julius Vancso, University of Twente, The Netherlands

#### Language

English

#### Short description

- What is nanotechnology? How is it linked to energy materials?
- Enabling tools for molecular scale observations, characterization, and manipulation of organic matter at the nanoscale
- Fabrication and characterization of nanostructures top-down and bottom-up
- Biomacromolecular nanotechnology

- Molecular motors for energy conversion at the nanoscale
- Applications in nanocomposites and cellular materials as passive thermal insulators
- Morphology and performance of nanomaterials for energy production
- Nanotechnology in electro- and photocatalysis

**CFU / Hours**

2 CFU, 16 hours

**Teaching period**

Course canceled.

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