

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Supramolecular chemistry, crystal engineering, and solid-state reactions

2223-116R-M8

Title

Supramolecular Chemistry, Crystal Engineering, and Solid-State Reactions

Teacher(s)

Prof. Leonard MacGillivray, University of Iowa (USA)

Language

English

Short description

The course aims at giving a short introduction to supramolecular chemistry - an area that bridges chemistry, physics, and biology through exploiting noncovalent bonds - as related to organic solids. The course will address in particular the following topics mostly related to crystal engineering and chemical reactions in the solid state.

- 1. Supramolecular Synthons in Crystal Engineering
- 2. Chemical Reactions in Crystals

- 3. Supramolecular Covalent of Covalent Bond Formation in the Solid State
- 4. Emergence of Mechanochemistry and Pharmaceutical Cocrystals

CFU / Hours

1 CFU / 8 hours

Teaching period

Sustainable Development Goals

QUALITY EDUCATION