UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Supramolecular Chemistry, Crystal Engineering, and Solid-State Reactions

2425-116R-M09

Title

Supramolecular Chemistry, Crystal Engineering and Solid-State Reactions.

Teacher(s)

Silvia Bracco
Angiolina Comotti

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.
The following topics will be discussed:

1. Supramolecular Synthons in Crystal Engineering
2. Chemical Reactions in Crystals
3. Polymerization in the Solid State
4. Emergence of Mechanochemistry and Industrial Applications.

CFU / Hours

1 CFU/ 8 hours

Teaching period

May and June 2025

Sustainable Development Goals

INDUSTRY, INNOVATION AND INFRASTRUCTURE | RESPONSIBLE CONSUMPTION AND PRODUCTION