



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Structure-property relationships in porous crystalline materials for gas storage

2122-79R-M10

Title

Structure-property relationships in porous crystalline materials for gas storage

Teacher(s)

Prof. Leonard Barbour, University of Stellenbosch, South Africa

Language

English

Short description

1. Introduction to porosity
2. Porous molecular materials

3. Porous metal-organic frameworks
4. Applications of porous materials
5. Measuring gas sorption isotherms
6. Adsorption calorimetry
7. Crystallography under gas pressure - apparatus
8. Crystallography under gas pressure - interpretation of structures

CFU / Hours

2 CFU / 16 hours

Teaching period

Spring 2022:

From March 14 to March 18 and from March 21 to March 25.
