



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Structure-property relationships in porous crystalline materials for gas storage

2122-79R-M10

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#### **Titolo**

Structure-property relationships in porous crystalline materials for gas storage

#### **Docente(i)**

Prof. Leonard Barbour, University of Stellenbosch, South Africa

#### **Lingua**

English

#### **Breve descrizione**

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 / Ore**

2 CFU / 16 hours

**Periodo di erogazione**

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