Ph D in Materials for Sustainable Development
Teaching Activity 2023/24

TITOLO CORSO
Nanomaterials: preparation, properties and applications
Professor Tahereh Rohani

Location:
Aula Seminari – Dept. Chemical Science and Technologies

Calendar:
June (14:30- 16:30)
Monday 10 - Friday 14
Monday 17-Thursday 20
Monday 24-Thursday 27
July (14:30- 16:30)
Monday 1 - Monday 4

Syllabus
Definition and principle of nanotechnology; Molecular basis; Techniques for the synthesis of nanomaterials: sol-gel, physical vapor deposition, chemical vapor deposition, sonochemistry, microemulsion; Type and classification of nanomaterials: magnetic nanomaterials, semiconductor nanomaterials, porous nanomaterials, aerogel, silica nanomaterials, carbonaceous nanomaterials.

Programma
Definizione e principio delle nanotecnologie; Basi molecolari; Tecniche per la sintesi di nanomateriali: sol-gel, deposizione fisica da fase vapore, deposizione chimica da fase vapore, sonochimica, microemulsione; Tipologia e classificazione dei nanomateriali: nanomateriali magnetici, nanomateriali semiconduttori, nanomateriali porosi, aerogel, nanomateriali di silice, nanomateriali carboniosi.

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