

IN²UB INTERNATIONAL RESEARCH SEMINARS

Magnetic Nanoreactors for Environmental Applications

Nanotechnology can be considered a “small” solution for many big problems, bringing novel benefits in terms of products and processes. Among possible nanomaterials, magnetic iron oxide nanoparticles stand out with their unique magnetic properties, low environmental impact, high biocompatibility, and wide versatility in technological fields such as wastewater treatment, catalysis, biomedicine, etc. This class of magnetic nanoparticles presents specific features like their large surface-to-volume ratio and high colloidal stability, a good magnetic response, and a powerful heating capacity under alternating magnetic fields.

In this talk, I will present our main results on designing different magnetic nanoparticles by the microwave-assisted polyol method and testing their efficiencies on the degradation of organic dyes used as models and on real and highly contaminated industrial wastewaters.



The IN²UB invites you to the webinar by

Dr. María del Puerto Morales Herrero

Instituto de Ciencia de Materiales de
Madrid, ICMM/CSIC

SAVE THE DATE

May 31st, 2022 at 12.00h.



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