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Microwave-assisted in-situ synthesis of nanoparticles, two- and tri-dimensional nanocomposites

Dra. Anna Roig

Institut de Ciència de Materials de Barcelona (ICMAB) Consejo Superior de Investigaciones Científicas (CSIC), Campus de la UAB, SPAIN

Abstract Microwave chemistry is being accepted as a non-conventional, fast, clean, economic and eco-friendly method representing a new trend not only for modern organic synthesis but also for inorganic and hybrid nanomaterials. A couple of reviews have been recently published on the state of the art on the subject.

I will use recent examples from our group to illustrate the versatile and uniqueness of microwave assisted synthesis enabling the fabrication of nanoparticles and complex nanocomposites, including for instance 3D magneto-photonic materials and magneto-plasmonic particles. I will describe with some detail a fast and bio-friendly microwave-assisted polyol route to synthesize gold nanotriangles decorated by a monolayer of iron oxide nanoparticles and the compositional, structural and optical characterization of the material.

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Camino Parque Centenario y 506, M. B. Gonnet C.C. 3 (1897) • La Plata - Buenos Aires – Argentina TE: +54 221 484-0280 / 2957; +54 221 471-5249 • Fax: +54 221 471-2771 • e-mail: info@ciop.unlp.edu.ar