

Seminario

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Chemical functionalisation, dispersion and self-assembly of carbon nanomaterials

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This talk will highlight the challenges associated with the covalent chemical functionalisation of carbon nanotubes, and describe the design of new high-performance dispersing agents for carbon nanotubes as well as the development of new strategies for the controlled self-assembly of carbon nanotubes. Work on graphene recently resulted in the preparation of a new carbon nanomaterial which we named graphene nanoflakes. The preparation of the nanoflakes will be described as well as their chemical properties and potential usefulness for applications in electrochemistry and gas-storage.