



- **Organic photonic nanomaterials** - Agustin Mihi & David Amabilino
- **Frustrated and non-collinear magnets with coupled orders investigated by quantum beams** - Jose Luis García Muñoz & Martí Gich
- **C. elegans: a tool to understand toxicity and diseases** - Anna Laromaine Sagué
- **Synthesis and in-depth characterization of novel colloidal nanoparticles with enhanced antimicrobial activity for infected wound treatment** - Nora Ventosa & Mariana Köber
- **Ultrafast growth for competitive high-temperature superconductors** - Teresa Puig
- **Bioactive materials for therapy and diagnosis** - Anna Roig
- **Boron cluster-based luminescent materials for biological and optical applications** - Rosario Nuñez
- **Highly Luminescent Organic Radical Nanoparticles (ONPs) for Bioimaging Applications** - Imma Ratera
- **Development of novel magneto-thermoelectric nanocomposites for wireless energy transfer and harvesting** - Pablo Guardia
- **Bottom-up synthesis of graphene hybrid nanoribbons and assessment of their electronic performance into devices** - Núria Aliaga & Arántzazu González

#### **Call 1. Available positions**

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- **Development of a new Atomic Force Microscopy technique to characterize polymorphs of thin organic layers and improve OFET performance** - Daniel Martín & Carmen Ocal
- **Flexible organic electronic devices: towards low-cost and high-performing transistors for sensing** - Marta Mas Torrent
- **New Magnetic Resonance Imaging (MRI) contrast agents based on radical dendrimers and nanoparticles** - José Vidal Gancedo
- **Developing patient-derived lung cancer organoids based on 3D hydrogels as new pre-clinical models** - Judith Guasch
- **Light-matter interactions in quantum solid-state devices** - Gervasi Herranz Casabona
- **Multifunctional molecular materials for organic electronics** - Núria Crivillers
- **Double perovskite oxide spintronic devices** - Can Onur Avci & Gabriele De Luca
- **Preparation of composite graphene/MOF aerogels for health and environmental applications** - Ana María López & Concepción Domingo
- **Controlling the nanoarchitecture of aqueous zinc battery electrodes** - Dino Tonti
- **Multiferroic nanocomposites for light and magnetic energy harvesting** - Mariona Coll & Anna Palau
- **Dynamical tuning of the thermal conductivity for photonics applications** - Riccardo Rurali

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- **IMB-CNM - Smart wound dressing materials with biosensing capacity -**  
Xavier Muñoz & Gonzalo Guirado
- **IMB-CNM - Advanced wide band gap semiconductor devices for particle detection in high-energy physics and space applications -** Joan Marc Rafí



- **Mussel-inspired thin films for neuronal regeneration -** Daniel Ruiz Molina

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- **Solid-state fuel cells and batteries** - Albert Tarancón
- **Development of a new generation of nanometric thin film-based photovoltaics for ubiquitous applications** - Alejandro Pérez & Víctor Izquierdo
- **Catalysts for advanced electrochemical processes** - Joan Ramon Morante
- **Self-healing batteries** - Andreu Cabot



- **Plant adaptation to climate change through the brassinosteroid pathway**  
- Roeland Boer & Ana Caño
- **2D Van-der-Waals Artificial heterostructures for information technologies and their advanced synchrotron characterization (2D4IT)** - Manuel Valvidares & Efrén Navarro

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- **Merging magneto-ionics with nanocalorimetry for spin-electronic applications** - Aitor Lopeandia, Jordi Sort & Enric Menéndez



- **Advanced detectors for gravitational wave studies with Virgo and Einstein Telescope** - Mario Martínez

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