

OFERTA TFM NANOMAT APROBADA POR LA CGC

CURSO 2019-20

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Título: DNA Hybrids by dynamic covalent chemistry

Supervisores: Jesús del Barrio Lasheras, Silvia Hernández Aínsa

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Título: Investigation of the reagents recycling on the synthesis of Metal Organic Frameworks (MOFs)

Supervisores: Magdalena Malankowska, Joaquín Coronas Ceresuela

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Título: Pebax® supported membranes for post-combustion CO₂ capture

Supervisores: Magdalena Malankowska, Joaquín Coronas Ceresuela

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Título: Development of novel nanosystems for the controlled release of drugs and signaling molecules in the inhibition of pathomolecular processes in the treatment of osteoarthritis

Supervisores: Manuel Arruebo Gordo, Gracia Mendoza Cantos

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Título: Nanosystems for the improvement of drug bioavailability in the treatment of colon cancer

Supervisores: Manuel Arruebo Gordo, Gracia Mendoza Cantos

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Título: Development of electrospun polymeric membranes for the treatment of degenerative joint diseases

Supervisores: Silvia Irusta Aldete, Gracia Mendoza Cantos

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Título: Spatiotemporal control of antibiotic release from polymeric nanoparticles using real-time monitoring of bacterial skin infection progression

Supervisores: Silvia Irusta Aldete, Gracia Mendoza Cantos

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Título: Optimization of TiO₂/graphene electrode for the clean production of H₂ by photoelectrocatalysis.

Supervisores: Alejandro Ansón, Ana Benito

Ponente: María Pilar Pina

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Título: Synthesis of POM-peptide hybrids: searching for synergy to produce new bactericidal materials

Supervisores: Elena Atrián Blasco, Scott G. Mitchell

10

Título: Functional nanomaterials based on focused ion irradiation

Supervisores: José María de Teresa Nogueras, Pilar Cea Mingueza

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Título: Development of catalysts through wet chemistry methods in order to cause metabolic alterations in tumors

Supervisores: José Luis Hueso, Javier Calzada Funes

Ponente: Jesús Santamaría Ramiro

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Título: Development of solution processed solar cells based on earth-abundant non-toxic nanocrystals

Supervisores: María Bernechea, Belén Villacampa

13

Título: Magnetic nanostructures grown by focused beam induced deposition

Supervisores: José María de Teresa Nogueras, César Magén Domínguez

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Título: Fabrication of YBiO₃ thin films by physical and chemical solution methods

Supervisores: Irene Lucas del Pozo, Soraya Sangiao Barral

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Título: Fabrication and characterization of nanocomposite Ni/HfO₂ granular multilayers

Supervisores: Pedro A. Algarabel, José A. Pardo

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Título: Exploring the multiferroic properties of the layered perovskite NdBaMn₂O₆

Supervisores: Javier Blasco Carral, José A. Pardo

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Título: Analysis of enzymes by local probe microscopy

Supervisores: Ana Isabel Gracia Lostao

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Título: Nanopatterning of molecules on devices by Atomic Force Microscopy

Supervisores: Ana Isabel Gracia Lostao

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Título: Magnetic smart scaffolds for drug delivery

Supervisores: Gerardo F. Goya

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Título: Opto-electronic devices based on atomically precise graphene nanostructures synthesized by bottom-up methods

Supervisores: David Serrate Donoso, Jorge Lobo Checa

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Título: Interaction of Cooper pairs with magnetic impurities in Tungsten Carbide type-II superconductor nano-deposits

Supervisores: David Serrate Donoso, José María de Teresa Nogueras

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Título: Atomic configuration studies of misfit-layered compounds in the form of nanotubes

Supervisores: Raúl Arenal

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Título: Low-dimensional carbon and related materials: in-situ microscopy studies

Supervisores: Raúl Arenal

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Título: AFM induced pattern formation in compliant surfaces

Supervisores: Juan José Mazo Torres, David Serrate Donoso

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Título: Bacterial nanocellulose materials

Supervisores: José Miguel González Domínguez, Ana Benito Moraleja

Ponente: María Pilar Pina

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Título: Correlations between crystal symmetry and magnetic properties of spintronic epitaxial LaCoO_3 thin films by aberration-corrected STEM

Supervisores: César Magén Domínguez, Rodrigo Fernández Pacheco

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Título: Study of the antimicrobial and antioxidant properties of polyoxometalates and polyoxometalate-ionic liquids and its potential for the development of new active food packaging solutions

Supervisores: Scott G. Mitchell, Filomena Silva

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Título: Superconducting sensors for nanophotonics and quantum applications

Supervisores: Carlos Pobes Aranda, Sergio Gutiérrez Rodrigo

Ponente: David Zueco Láinez

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Título: 2-dimensional materials for cultural heritage conservation

Supervisores: Andrés Seral-Ascaso Scott G. Mitchell

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Título: Spin excitations in nanoscopic magnetic systems

Supervisores: María José Martínez Pérez

Ponente: David Zueco Láinez

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Título: Chemically modified surfaces for fabricating molecular electronic devices

Supervisores: Santiago Martín Solans, Pilar Cea Mingueza

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Título: Study and applications of MOF nanofilms

Supervisores: Ignacio Gascón, Olivier Roubeau

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Título: Electrochemical techniques for the characterization and quantification of functionalized silver nanoparticles and their interaction with antibiotics as ligands

Supervisores: Juan Carlos Vidal

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Título: Graphene aerogel as catalyst and electrocatalyst support

Supervisores: Enrique García Bordejé, Ana Benito Moraleja

Ponente: María Pilar Pina

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Título: Low cost surface patterning of transparent foils by thermal nanoimprint lithography (NIL)

Supervisores: María Pilar Pina, Reyes Mallada

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Título: Development of nanostructured carbon-based catalysts for photocatalytic conversion of CO₂ into added-value fuels

Supervisores: Francisco Balas Nieto

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Título: Photothermal reduction of CO₂ on metal-doped TiO₂ and ZnO nanoparticles

Supervisores: Francisco Balas Nieto

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Título: Development of nanocatalysts with enzyme-like response for biomedical applications

Supervisores: José Luis Hueso, Javier Calzada Funes

Ponente: Jesús Santamaría Ramiro

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Título: Gold nanoparticles as delivery vectors for gene therapy in Amyotrophic Lateral Sclerosis

Supervisores: Raquel Manzano, Manuel Arruebo Gordo