Thursday, January 19th

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9:00-9:15	Opening Ceremony
9:15-11:35	Morning session 1
9:15-10:15	Plenary Laura M. Lechuga Gómez Catalan Institute of Nanoscience and Nanotechnology (ICN2-CSIC)
10:15-10:30	Scharlab
10:30-10:50	Keynote A Using large 18-membered macrocycles for the complexation of metals with potential radiopharmaceutical applications Charlene María Harriswangler Harriswangler CICA-University of A Coruña
10:50-11:05	Oral 1 Signal drift in electrochemical, aptamer-based (E-AB) sensors: understanding its mechanism and future challenges Miguel Aller Pellitero Johns Hopkins University
11:05-11:20	Oral 2 Main group mechanochemistry: challenges and opportunities for a sustainable society <u>Javier Fernández Reynes</u> University of Oviedo
11:20-11:35	Oral 3 Impact of chelate cooperativity on the supramolecular structure of self-assembled nanotubes Marina González Sánchez Autonomous University of Madrid
11:35-12:20 12:20-13:40	Coffee break – Poster session Morning session 2
12:20-12:35	Oral 4 Understanding ruthenium-prompted amine fixation: deep insight on Bonding Evolution Theory Daniel Barrena Espés University of Oviedo
12:35-12:50	Oral 5 Optimizing the process variables for microwave-induced synthesis of iron aerogels Judith González Lavín Institute of Carbon Science and Technology, INCAR-CSIC
12:50-13:10	Keynote B Influence of vibronic instabilities on the geometry and properties of layered materials Inés Sánchez de Movellán Sáiz University of Cantabria
13:10-13:25	Oral 6 Determination of methylmercury and inorganic mercury in human hair samples of individuals from Colombia by double spiking isotope dilution and GC-ICP-MS <u>Laura Suárez Criado</u> University of Oviedo
13:25-13:40	Oral 7
	Ruthenium(II) complexes as photosensitizers for photoactivated chemotherapy (PACT) with blue light activation: Photochemical properties and DNAbinding Piedad Herrera Ramírez NanoBIC. University of Barcelona
13:40-15:30	(PACT) with blue light activation: Photochemical properties and DNAbinding

15:30-16:15 Flash poster (FP1)

Flash poster (FP1)	
Paula Gómez Meijide	Prostate cancer diagnosis by PSA detection using
(University of Oviedo)	new electrochemical aptasensors
Clara de Lorenzo González	Hydrogels-based systems for the controlled
(University of Oviedo)	release of therapeutic agents: an innovative treatment for osteoarthritis
Nayara Carral Sainz	Second principles density functional theory
(University of Cantabria)	models: a procedure to obtain their tight-binding parameters automatically
<u>Daniel Núñez Díaz</u> (University of Oviedo)	Effect of landfill leachate age on ultrafiltration performance
Ángela Arnosa Prieto	Influence of vibronic instabilities on the geometry
(University of Santiago de Compostela)	and properties of layered materials
Toraya Fernández Ruiz (University of Cantabria)	Modelling Optical Phenomena via Real-Time TD- DFT using Second-Principles: Measuring the effect of electron-hole interactions
Silvia Vázquez Díaz (Center for Cooperative Research in Biomaterials (CIC biomaGUNE) País Vasco)	Protein-nanoclusters as effective electrocatalyst for the production of inkjet printed paper analytical devices
Montserrat Redondo Velasco (University of Oviedo)	Determination of Chlorine-containing compounds by GC-ICP-MS/MS in plastic-based pyrolysis oil samples
Lucía Pola Fernández (University of Oviedo)	Kraft lignin as a source of carboxylic acids by wet oxidation
Miriam López García (Institute of Carbon Science and Technology, INCAR-CSIC)	A freeze-casted Ni/Fe graphene oxide aerogel as a catalyst for the electrolysis of water
<u>Cristina Méndez López</u> (University of Oviedo)	Halogen determination in liquid samples via optical emission spectroscopy: towards online analysis
Rubén García Soriano (University of Oviedo)	Phosphane and quinoline functionalized amidinato-type heavier tetrylenes: A new class of ligands
Raúl Llamas Unzueta (Institute of Carbon Science and Technology, INCAR- CSIC)	Stacked Archimedean spirals reactor with porous carbon walls, made from 3D printed sacrificial PLA moulds
Nieves García Ledesma (University of Salamanca)	One-Pot diastereoselective synthesis of indolizidine and pyrrolo-[1,2-a]azepine heterocycles

16:15-17:05 Afternoon session 1

16:15-16:30 Oral 8

Development of a paste extruder system and production of Ni-electrodes by diw for water splitting

Pablo Rodríguez Lagar

Institute of Carbon Science and Technology, INCAR-CSIC

16:30-16:45 Oral 9

Albumin-based nanomaterials: a novel treatment for triple-negative breast cancer <u>Victoria García Almodóvar</u> King Juan Carlos University

16:45-17:05 Keynote C

Determination of endogenous proteins in individual cells from an in vitro model by elemental mass spectrometry

Paula Menero Valdés

University of Oviedo

17:05-17:50 Coffee break – Poster session

17:50-18:35 Afternoon session 2

17:50-18:05 Oral 10

Discrimination of TNT and its metabolites in the environment using voltammetric sensors, modified with molecularly imprinted polymers

Yohana López Aparicio

Autonomous University of Barcelona

18:05-18:20 Oral 11

Scalable divergent synthesis of diterpenoid pyrones

Olaya García Pedrero University of Oviedo

18:20-18:35 Oral 12

Perylene-based chromonic self-assemblies for the preparation of hierarchically porous silica and carbon nanofibers

Adrià Pérez Calm

Institute of Advanced Chemistry of Catalunya (IQAC)-CSIC

18:35-19:20 Flash poster (FP2)

Flash poster (FP2)	
Andrés Suárez Priede (University of Oviedo)	ICP-MS based characterization of biogenic SeNPs and evaluation of their potential antibacterial activity
Juan Rivas-Santisteban (National Biotechnology Center (CNB-CSIC))	Characterization of a chemical bias shaping microbial functional evolution
Leonardo Amaral (King Juan Carlos University)	Magnetic MoS ₂ based nanocomposites for the photodegradation of pesticides
Ana da Lama Vázquez (CICA-University of A Coruña)	One-step synthesis of BODIPY dyes and analogues under microwave irradiation
Alejandro Rodríguez Penedo (University of Oviedo)	Determination of GFAP biomarker in human serum using metal nanoclusters as label by elemental mass spectrometry and cyclic voltammetry
Raquel Pérez Guevara (CICA-University of A Coruña)	Synthesis of benzannulated spiroketals by indium- catalyzed intramolecular double dihydroalkoxylation of alkyne diols
Helena Pérez del Pulgar Villena (King Juan Carlos University)	A three-pollutant simultaneous photodegradation. BiOX _x Y _{1-x} (X=Br or Cl; Y=I) as a photocatalytic solution for water treatment
<u>David Valero Calvo</u> (University of Oviedo)	Detection of MMP-9 biomarker using nanochannels
<u>Uxía Gómez Bouzó</u> (University of Vigo)	The goal to create new vitamin D analogs with selective biological activity
Marcos López Aguilar (University of Oviedo)	Design of a hybrid one-pot tandem combination of the Cu(II)-catalyzed oxidation of alcohols with an enantioselective organocatalyzed aldol reaction
<u>David González Lizana</u> (King Juan Carlos University)	Very efficient organo-zinc scorpionates for the CO2 fixation into a variety of cyclic carbonates
Helena Fernández Piedra (University of Oviedo)	Halogen-bonding assisted generation of vinyl radicals: stereoselective cross coupling between thiols and vinyl halides
Lourdes del Álamo Rodríguez (Complutense University of Madrid)	Supramolecular self-assembly of metal-metal bonded species
<u>Dario Coto Menéndez</u> (University of Oviedo)	Catalytic cyclopropanation reactions with α -silyl-, germanyl- and stannyl carbenes generated from cyclopropenes
Patricia García Martínez (University of Oviedo)	Synthesis of new phenethylamine-azulene conjugates via regioselective ring opening of 2-aryl-N-sulfonyl aziridines

Friday, January 20th

9:00-10:50	Morning session 3
9:00-9:20	Keynote D Effect of H ₂ S in biogas composition on the production of H ₂ by sorption enhanced steam reforming (SESR) <u>Alma Capa Tamargo</u> Institute of Carbon Science and Technology, INCAR-CSIC
9:20-9:35	Oral 13 Development of new pH-responsive delivery systems Isabel Coloma Manjón-Cabeza Complutense University of Madrid
9:35-9:50	Oral 14 MD and DFT combined simulations Jorge Suárez Recio University of Oviedo
9:50-10:05	Oral 15 Development of carbon materials for Na-ion capacitors Sara Payá González Institute of Carbon Science and Technology, INCAR-CSIC
10:05-10:20	Oral 16 Nanostructuring of CPPs based on dyes using a new ultra-miniemulsion technique for improving their photo(electro)catalytic applications Sandra Palenzuela Rebella IMDEA Energy, Madrid
10:20-10:35	Oral 17 Graphene aerogels as nanomaterials for electrochemical detection of biomarkers Mario Sánchez Suárez Institute of Carbon Science and Technology, INCAR-CSIC
10:35- 10:50	Oral 18 Compositional similarities and differences between North West Africa (NWA) 2975, 10628 and 1950 Martian Shergottites Iratxe Población Concejo University of País Vasco (EHU/UPV)
10:50-11:35	Coffee break – Poster session
11:35-13:40	Morning session 4
11:35-11:55	Keynote E An original awy to synthesize (Z)-β-silylenamides by silylium-catalyzed carbosilylation of ynamides <u>Paz Yepes García</u> University of Oviedo
11:55-12:10	Oral 19 TiO ₂ /SnO ₂ – silver clusters hybrid nanomaterials for catalytic photodegradation of micropollutants María Moreno Pérez University of Santiago de Compostela
12:10-12:25	Oral 20 Development of on-site sensors for quality control in agri-food Candela Melendreras García University of Oviedo
12:25-12:40	Oral 21 Vermellogens" and the development of CB[8]-based supramolecular switches using pH-responsive and non-toxic viologen analogues <u>Liliana Inés Barravecchia Prado</u> CICA-University of A Coruña

12:40-12:55
Oral 22
The enhancing effect of iron on the activity of Ni and Ni/Fe graphene-based catalysts for the electrolysis of water

María González Ingelmo
Institute of Carbon Science and Technology, INCAR-CSIC

12:55-13:40
Plenary
Amador Menéndez Velázquez
Idonial

13:40-14:00
Closing ceremony