

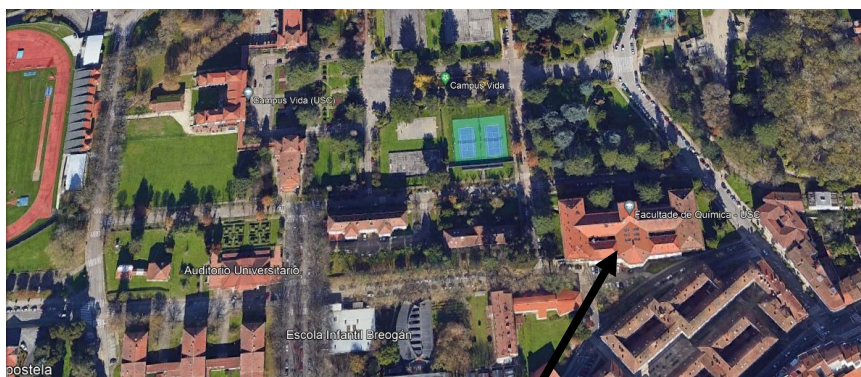
LOCALIZACIÓN DEL XXVI ENCONTRO INTERNACIONAL GALEGO PORTUGUÉS DE QUÍMICA

Santiago de Compostela é a capital da Comunidade Autónoma de Galicia. A súa zona antiga é Patrimonio da Humanidade dende o ano 1.985. Xunto con Xerusalem e Roma, Santiago é un centro de peregrinación do cristianismo. Dende a etapa medieval, chegase a Santiago dende diversas rutas de peregrinación, dende o centro de Europa a mais longa, ata a súa Catedral adeicada ao Apóstolo Santiago. Centos de miles de peregrinos de todo o mundo veñen peregrinando ata a súa Catedral.

Santiago de Compostela ten unha poboación de case 96.456 habitantes (INE 2017), que pode duplicarse durante o curso universitario.

INFORMACIONES VARIAS

El Encontro se celebrará en el edificio de la Facultad de Química de la Universidad de Santiago de Compostela, situado en la Avenida das Ciencias s/n, en el Campus Universitario, 15701 Santiago de Compostela.



Facultad de Química

LA FACULTAD DE QUÍMICA

La Facultad de Química de la Universidad de Santiago de Compostela está ubicado en el Campus de la Universidad. Está en un edificio construido en la segunda mitad del siglo XX. Este año 2.022, la Facultad celebra el Centenario de su creación.

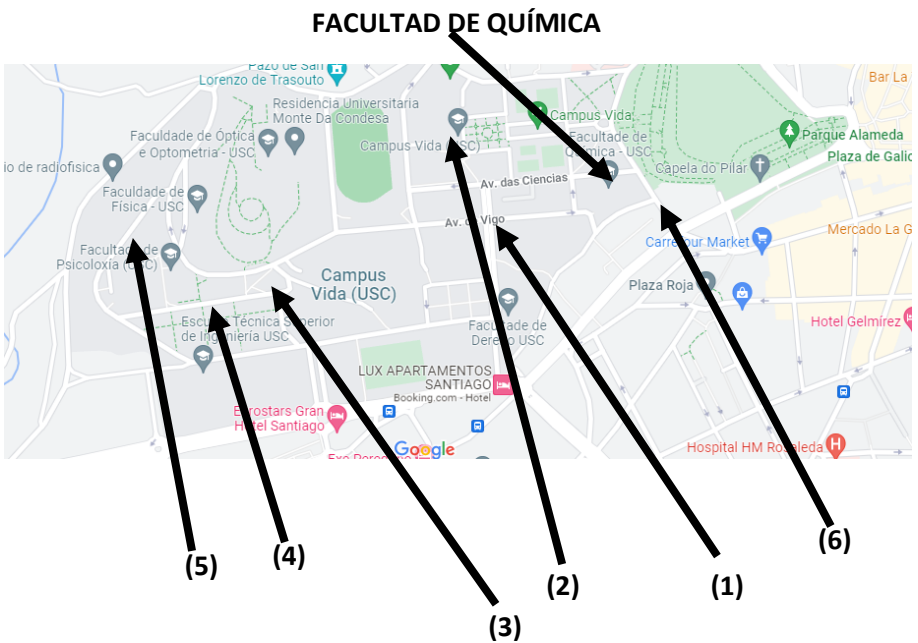
<https://www.usc.gal/gl/centro/facultade-quimica>

PARA COMER LOS DÍAS DEL CONGRESO:

La Facultad de Química está ubicado en el Campus de la Universidad, lugar donde se puede comer a un precio muy asequible para todas las personas asistentes al Congreso.

Los lugares más próximos al Congreso son:

- (1) Comedor Universitario.
- (2) Colegio Mayor Fonseca.
- (3) Facultad de Matemáticas.
- (4) Escuela Técnica Superior de Ingeniería
- (5) Comedor Facultad Ciencias de la Educación.
- (6) Zona restauración fuera del Campus



INFORMACIÓN SOBRE EL CONGRESO

RECEPCIÓN

La oficina de información y la recepción para retirar la documentación del Encuentro, estará localizada en el vestíbulo de la Facultad de Química, en la planta baja. Permanecerá abierta durante todos los días de su celebración.

EQUIPAMIENTO DE PROYECCIONES

Las salas de conferencias están equipadas con ordenador y cañón de proyección. Cada orador deberá transferir el fichero de su presentación al ordenador de la sala que le corresponda, con la antelación suficiente. Siendo aconsejable se realice en la sesión anterior.

PRESENTACIONES ORALES

Las conferencias plenarias tendrán una duración de 45-50 minutos más 10 minutos para preguntas.

La duración de las comunicaciones orales será de 10 minutos más 5 minutos para resolución de dudas. Se solicita a todos los oradores que cumplan el tiempo estipulado, a fin de evitar retrasos en el programa.

Se recomienda que las presentaciones se hagan en formato pdf.

POSTERS

Deberán colocarse el primer día, primera sesión y retirarse el último, tras el acto de clausura, por los propios autores de la comunicación. Se solicita a los autores de los trabajos presentados, estén presentes junto a los mismos durante la sesión de discusión.

SALAS DEL CONGRESO

El congreso tendrá lugar en 4 salas de la Facultad de Química de la Universidad de Santiago de Compostela. Tres salas están situadas en la planta baja y, la cuarta sala, en la segunda planta. Los posters se colocarán en los pasillos de la segunda planta y en la planta baja.

Planta Baja

- El Aula Magna (A) es la sala donde se realizará la inauguración y clausura del Congreso y, también donde se presenten las Ponencias Plenarias del Congreso. También se usará para ponencias del Congreso.
- Sala B. Es el Aula de Química Técnica. Se utilizará para ponencias del Congreso.
- Sala C. Es el Aula de Química-Física. Se utilizará para ponencias del Congreso.

Segunda Planta

- Sala D. Es el Aula de Química General. Se utilizará para ponencias del Congreso.

CENA DEL ENCONTRO

La cena del ENCONTRO se celebrará el día 17 de noviembre a las 21:30 horas en el Comedor de la Hospedería del Seminario Mayor (<http://sanmartinpinario.es/>). El coste de la cena es 25,00 euros.

La Hospedería San Martín Pinario está situada en el centro histórico de Santiago de Compostela, en la Plaza de la Inmaculada nº 3, frente a la Catedral. Es un edificio empezado a construir a finales del Siglo XVI. Es un edificio histórico y, después del Monasterio del Escorial, es el mayor de España. Cerca del edificio hay una zona de cafeterías muy típicas de Santiago de Compostela.

PROGRAMA DEL XXVI ENCONTRO INTERNACIONAL GALEGO PORTUGUÉS DE QUÍMICA

SALAS		Planta
A	Aula Magna	P. Baja
B	Química Física	
C	Química Técnica	
D	Química General	2ª

DÍA	HORA	SALAS				
		PLENARIAS	A	B	C	D
		SALA A				
16	10:00 - 12:00	INSCRIPCIÓN Y RECEPCIÓN				
	12:00- 12:30	SESIÓN DE APERTURA. Aula Magna				
	12:30-13:30	CONFERENCIA PLENARIA de APERTURA. Aula Magna				
	13:30-15:00	COMIDA				
	15:00		QS01	AMB01	ALM01	CAT01
	15:15		QS02	AMB02	ALM02	CAT02
	15:30		QS15	AMB03	ALM03	CAT03
	15:45		QS04	AMB04	EDU02	CAT04
	PAUSA: 5 minutos					
	16:05		QS05	AMB05	ALM05	CAT05
	16:20		QS06	AMB06	ALM06	CAT06
	16:35		QS07	AMB07	ALM07	CAT07
	16:50		QS08	AMB08	ALM08	CAT08
	17:05-18:00	COFFEE BREAK + POSTERS				
	18:00-19:00	CP1				
	19:00		QS09	AMB09	ALM09	CAT09
	19:15		QS10	AMB10	ALM10	CAT10
	19:30		QS11	AMB11	ALM11	CAT11
	19:45		QS12	AMB12	ALM12	CAT12
	20:00		QS13	AMB13	ALM13	CAT13
	20:15		QS14	AMB14	ALM14	CAT14

EL CONGRESO

DÍA	HORA	SALAS					
		PLENARIAS	A	B	C	D	
		SALA A					
17	9:00		EDU03	AMB15	ALM15	CAT15	
	9:15		QS16	AMB16	ALM16	CAT16	
	9:30		QS17	AMB17	ALM17	CAT17	
	9:45		QS18	AMB18	ALM18	CAT18	
	10:00		QS19	AMB19	ALM19	CAT19	
	10:15		QS20	AMB20	ALM20	CAT20	
		PAUSA: 5 minutos					
	10:35		QS21	AMB21	ALM21	CAT21	
	10:50		QS22	AMB22	ALM22	CAT22	
	11:05		QS23	AMB23	ALM23	IND11	
	11:20		QS24	AMB24	ALM24	QO02	
	11:35		QS25	AMB25	ALM25	QO03	
	11:50		QS26	AMB26	ALM26	QO04	
	12:05-12:45	COFFEE BREAK + POSTERS					
	12:45-13:30	CP2					
	13:30-15:00	COMIDA					
	15:00		QS27	AMB27	ALM27	QO05	
	15:15		QS28	AMB28	ALM28	QO06	
	15:30		QS29	AMB29	ALM29	QO07	
	15:45		QS30	AMB30	ALM30	QO01	
	16:00		QS31	AMB31	ALM31	QO09	
		PAUSA: 5 minutos					
	16:05		QS32	AMB32	ALM32	QO10	
	16:20		QS33	AMB33	NN01	QO11	
	16:35		QS34	AMB34	NN02	QO12	
	16:50		QS35	AMB35	NN03	QO13	
	17:10		QS36	QA01	NN04	QO14	
		PAUSA: 5 minutos					
	17:20-18:00	COFFEE BREAK + POSTERS					
	18:00-18:45	CP3					
	18:45	HOMENAJE COSTA LIMA					
	19:15		QA25	QA02	NN05	QO15	
	19:30		NN19	QA04	NN06	QO16	
	19:45		QA19	QA05	NN07	QO17	
	20:00		NN20	QA06	NN08	QO18	
	20:15		QA26	QA07	ALM04	QO08	
	21:45	CENA DEL ENCONTRO					

DÍA	HORA	SALAS				
		PLENARIAS	A	B	C	D
		SALA A				
18	9:00		QS37	QA08	NN09	QO19
	9:15		QS38	QA09	NN10	QO20
	9:30		QS39	QA03	NN11	QO21
	9:45		QS40	QA10	NN12	QO22
	10:00		QS41	QA11	NN13	QO23
	10:15		QS42	QA12	NN14	QO24
	PAUSA: 5 minutos					
	10:35		QS43	QA13	NN15	BB01
	10:50		QS44	QA14	NN16	BB02
	11:05		QS45	QA15	NN17	BB03
	11:20		QS46	QA16	NN18	BB04
	11:35		QS47	QA17	QT01	BB05
	11:50		QS48	QA18	QT03	IND01
	12:05-12:45	COFFEE BREAK + POSTERS				
	12:45-13:30	CP4				
	13:30-15:00	COMIDA-ALMUERZO				
	15:00		QS49	QA20	QF01	IND02
	15:15		EDU01	QA21	QF02	IND03
	15:30			QA22	QF03	IND04
	15:45			QA23	QF04	IND05
	16:00		QI01	QA24	QF05	IND06
	16:15		QI02	POL01	QF06	IND07
	PAUSA: 5 minutos					
	16:35		QI03	QT02	QF07	IND08
	16:50		QI04	POL02	QF08	IND09
	17:05		QI05	QT04	QF09	IND10
	17:20		QI06	QT05	QF10	
	17:35		QI07	QT06	QF11	IND12
	17:50		QI08	QT07	QF12	IND13
	PAUSA: 5 minutos					
	18:10	CLAUSURA				

RELACIÓN DE CONFERENCIAS PLENARIAS

CONFERENCIA APERTURA:

Prof. Doctor M. Stanley Whittingham

Premio Nobel de Química año 2.019

Chemistry Department, Binghamton University

The Critical Role of Energy Storage in the Electric Economy and Overcoming Climate Change

CP 1 **Prof. Doctora Maria da Conceição Rangel**

REQUIMTE-LAQV, Instituto de Ciências Biomédicas Abel Salazar, Universidade do Porto. PORTUGAL

Hydroxypyridinones: Chelators to Life Sciences

CP 2 **Prof. Doctora María Dolores Pérez Meiras**

Centro Singular de Investigación en Química Biolóxica e Materiais Moleculares (CiQUS), Universidade de Santiago de Compostela, Santiago de Compostela, Spain

Aryne Chemistry in the Graphene Era

CP 3 **Prof. Doctor José M. Andrade-Garda**

Grupo de Química Analítica Aplicada. Departamento de Química. Campus da Zapateira. Universidade da Coruña, A Coruña, 15071, A Coruña, Spain

Determination of microplastics in environmental samples

CP 4 **Prof. Doctor José Luis Capelo Martínez**

Department of Chemistry. Faculty of Science and Technology. NOVA University of Lisbon. PORTUGAL

Prescriptomics

RELACIÓN DE COMUNICACIONES

CONFERENCIAS PLENARIAS

CONFERENCIA DE APERTURA

Profesor Doctor M. Stanley Whittingham

The Critical Role of Energy Storage in the Electric Economy and Overcoming Climate Change

CP 1 **Prof. Doctora Maria da Conceição Rangel**

Hydroxypyridinones: Chelators to Life Sciences

CP 2 **Prof. Doctora María Dolores Pérez Meiras**

Aryne Chemistry in the Graphene Era

CP 3 **Prof. Doctor José M. Andrade-Garda**

Determination of microplastics in environmental samples

CP 4 **Prof. Doctor José Luis Capelo Martinez**

Prescriptomics

COMUNICACIONES

QUÍMICA ALIMENTARIA

Oral

ALM01 Desenvolvimento de um novo vinagre espirituoso de origem vínica.

ALM02 Mycotoxins and inorganic arsenic in rice: the Portuguese scenario and human risk assessment in the worldwide context.

ALM03 Inhibición de la actividad microbiana y la alteración lipídica en productos marinos mediante empleo de extractos de la macroalga *Bifurcaria bifurcata*.

ALM04 Diferenciación quimiométrica de tequilas blancos en función de sus espectros infrarrojos.

- ALM05 Plantas condimentares do género *Thymus* como uma alternativa natural para conservação de alimentos.
- ALM06 Caracterização dos resíduos de *Brassica oleracea* L. para obtenção de um potencial ingrediente natural.
- ALM07 Caracterización detallada de la harina del mesocarpio de *Attalea speciosa* y su aplicación para el desarrollo de nuevos productos de panadería.
- ALM08 Risk assessment of nine coccidiostats in commercial and home raised poultry.
- ALM09 Efeito de bioestimulantes vegetais nos perfis nutricionais e químicos de *Corylus avellana* L. (avelã).
- ALM10 Efeito de bioestimulantes vegetais nos perfis nutricionais e químicos de amêndoa [*Prunus dulcis* (Miller) D. A. Webb].
- ALM11 Composição química e bioatividades do epicarpo de *Nephelium lappaceum* L.
- ALM12 Dietary polyglycosylated anthocyanins, the smart option? Towards their stability and bioavailability.
- ALM13 Comparação do efeito de diferentes poliaspartatos de potássio na estabilização tartárica e na filtrabilidade do vinho.
- ALM14 Multielement analysis as a discriminating tool of PDO and PGI food products.
- ALM15 *Adansonia digitata* L. (mukua): um possível alimento funcional.
- ALM16 *Haematococcus pluvialis* como aditivo en la coloración y mejora de las propiedades organolépticas y nutricionales de alimentos.
- ALM17 Flavylum-based host-guest systems for biogenic amine sensing during food spoilage.
- ALM18 Effects of gastrointestinal digestion on the bioactive properties and phlorotannin profile from *Laminaria digitata*.
- ALM19 Application of data mining techniques to unveil contaminants occurrence in food.
- ALM20 Caracterização química e propriedades bioativas de resíduos industriais da produção de óleo de noz (*Juglans regia* L.).
- ALM21 Avaliação de subprodutos de soja (*Glycine max*), uma potencial fonte de nutrientes e compostos bioativos.
- ALM22 *Sandoricum koetjape* fruit juice inhibits 5-lipoxygenase and interferes with the inflammatory response of activated BV-2 cells.
- ALM23 Combinação de diferentes regimes de fertilização e irrigação para a produção de cardo dourado (*Scolymus hispanicus* L.) de alto valor nutricional e mineral.
- ALM24 Quantificação e caracterização do conteúdo de polifenóis em produtos de maçã.
- ALM25 Propiedades nutricionales y bioactivas de la frambuesa roja Kweli® cultivada en Portugal.
- ALM26 Optimización de la extracción asistida por microondas de aceite de subproductos de pescado y evaluación de su calidad nutricional.
- ALM27 Delivery vehicles for resveratrol incorporation in bread.

- ALM28 Obtenção otimizada de extratos bioativos de casca de marmelo: Uma fonte alternativa de conservantes naturais.
- ALM29 Bioprospecting sequential extraction to obtain valuable compounds from brown macroalgae *Fucus vesiculosus*.
- ALM30 Nutritional, chemical and bioactive characterization of *Peumus boldus* L.
- ALM31 Antimicrobial activity of rosemary, eucalyptus and propolis individual and mixed extracts.

Póster/Panel

- ALM32 Chemical content and antioxidant activity variation during cherry development stages after application of biostimulants.
- ALM33 Obtención de lípidos polares a partir de desechos industriales de pulpo (*Octopus vulgaris*) mediante empleo de disolventes de tipo GRAS.
- ALM34 Use of protective starter cultures and plant essential oils to reduce preservatives in traditional Portuguese sausages: “Chouriço” and “Alheira”.
- ALM35 Evaluation of the physico-chemical, microbiological and sensory characteristics of sheep's and goat's ice cream, produced with UF concentrated second cheese whey.
- ALM36 Comparison of the amino acid profile of two by-products of the coffee industry: pulp and husk.
- ALM37 Enfoques integrados para el impulso socioeconómico de la producción y consumo sostenible de hongos de Montesinho.
- ALM38 Antioxidant capacity of *Palaemon serratus* and *Palaemon varians* shell waste.
- ALM39 Perfil fenólico e avaliação da atividade antioxidante e antimicrobiana do epicarpo de *Sicana odorifera* (Vell.) Naudin.
- ALM40 Extraction of bioactive compounds from three varieties of date by-products through sustainable methodologies.
- ALM41 Valorização de biorresíduos da produção de sumo de laranja: extração de ácido cítrico.
- ALM42 Collagen determination in fish skin: development of a flow analysis system for quantification of hydroxyproline.
- ALM43 Phlorotannins-rich extract from *Laminaria digitata* for the development of a functional granola towards prevention of Diabetes mellitus.
- ALM44 Multiple mycotoxin analysis method for rice.
- ALM45 Promising bioactive properties from *Moringa oleifera* seed cake protein hydrolysates.
- ALM46 Evaluation of phenolic compounds present in prunings of native Galician olive trees.
- ALM47 Bioaccessibility of phenolic compounds from Galician olive leaf infusions.

- ALM48 Caracterização química de uma massa alimentícia com bagaço de azeitona.
- ALM49 Pasta de bagaço de azeitona: ingrediente promissor para a indústria cosmética e alimentar?.
- ALM50 Reliable in-line determination of the protein, fat, sodium and salt content in pasty doughs through near infrared spectroscopy and chemometrics.
- ALM51 In-line application of near infrared spectroscopy for the classification of doughs in bakery.
- ALM52 Amino acid profile: comparison among coffee silverskin and green and roasted beans.
- ALM53 Comparison of the amino acid profile of two by-products of the coffee industry: pulp and husk.
- ALM54 Maltodextrin Microencapsulation of Phenolic-rich Fractions of *Gunnera tinctoria* Extracts.
- ALM55 Occurrence of Coccidiostats in Portuguese Eggs.
- ALM56 Antitumoral Activity of *Gunnera tinctoria* Extracts on a Pancreatic cell line.
- ALM57 Effect of pre-harvest foliar application of seaweed and glycine-betaine-based biostimulants on blueberry quality.
- ALM58 Determination of CO₂ in roasted coffee using a TAS optimized with super-modified simplex.
- ALM59 Phenolic compounds and antioxidant and cytotoxic properties of maritime pine (*Pinus pinaster* Ait.) bark extracts.
- ALM60 Effects of different treatments on the phenolic composition of acorn extracts from *Quercus robur* and *Quercus rotundifolia*.
- ALM61 Synergy and antagonism: a different interpretation of the interactions between the antioxidants used as food additives.
- ALM62 *Sargassum muticum* - Screening of its bioactive potential.
- ALM63 Fermentation of olive pomace paste to obtain an innovative antioxidant food ingredient.
- ALM64 Study of the antioxidant, antimicrobial and anti-inflammatory activities of two *Euphorbia* species.
- ALM65 *Verbascum sinuatum* L.: Potential source of natural antioxidant compounds for food and pharmaceutical industries.
- ALM66 Exploring the potential of *Citrus aurantium* L. flowers as a source of antioxidant compounds.
- ALM67 Biological properties of *Hypericum sampsonii* and *Hypericum japonica*: comparison of the antioxidant, anti-inflammatory and antimicrobial activity.
- ALM68 Insights of honey DNA extraction methods for plant species identification of honey from Natural Park of Montesinho.

- ALM69 Efeito do método de extração no perfil fenólico e na atividade antioxidante de extratos de casca de marmelo.
- ALM70 Priming with *Laminaria* extract to boost tomato performance and mitigate drought effects.
- ALM71 Algae blend on lambs diet: Effects on rumen and colon fermentation pattern.
- ALM72 Antioxidant activity of sweet cherry fruits (cv. *Lapins*) after foliar application of a seaweed extract.
- ALM73 Effects of the sowing date on the production of alkaloids in the seeds of three *Lupinus* species.
- ALM74 Identificação e otimização da extração de compostos fenólicos de cascas de abóbora 'Butternut squash'.
- ALM75 Simultaneous determination of bisphenols, personal care products, and pesticide residues in fish species from Portuguese estuaries.
- ALM76 Nutritional value of European seabass (*Dicentrarchus labrax*) muscle is affected by algae blend supplementation.
- ALM77 On-farm dietary *Chlorella vulgaris* supplementation affects *Longissimus lumborum* fatty acid profile of finishing pigs.
- ALM78 Recuperação de subprodutos da indústria alimentar para extração otimizada de compostos fenólicos.
- ALM79 A detailed and comparative elemental analysis (Poland vs. Portugal) of espresso coffee.

QUÍMICA AMBIENTAL Y SOSTENIBLE

Oral

- AMB01 Remoção de parabenos por processos Fenton e foto-Fenton.
- AMB02 Chemical contamination in "O Burgo" estuary (Galicia). Lithogenic and anthropogenic inputs to the sedimentary reservoir.
- AMB03 Combination of coagulation-flocculation-decantation with Fenton-based processes for agro-industrial wastewater treatment.
- AMB04 Treatment of a winery wastewater by a peroxymonosulfate/cobalt/ UV system.
- AMB05 Determinación de normalizadores para elementos traza en el sedimento del continuum afluente-río-estuario-ría (Ulla-Arousa, Galicia).
- AMB06 Vine-canes-based extracts as antioxidants for biodiesel production: A Life Cycle Assessment study.
- AMB07 Removal of perfluoroalkylated substances (PFAS) with a broad spectrum of alkyl chain lengths (C1-C13) using a boron-doped diamond electrode and real aqueous matrices.

- AMB08 A Sustainable Methodology for the Preparation of HIV Protease Inhibitors to Tackle Viral Resistance.
- AMB09 Controlled thermal degradation of Polyoxometalate@Zeolitic Imidazolate Framework composites towards novel oxidation catalysts.
- AMB10 Biomass-based materials for estrogens adsorption from water: production methods and their characterization.
- AMB11 Green Chemistry in the Pharmaceutical Industry.
- AMB12 Predicting DDT past and future contamination from a local source with a new gridded dynamic multimedia fate model.
- AMB13 Evaluation of activated carbon obtained from olive stones for the removal of sertraline from waters.
- AMB14 Remediação y recuperação de fósforo con materiales nanoestructurados con potencial reaprovechamiento como fertilizantes.
- AMB15 Geoquímica e biodisponibilidade do Cu em solos de manguezais da Baía de Todos os Santos, Bahia, Brasil.
- AMB16 Valorización de sub-productos de la industria agroalimentaria gallega a través de la Química Verde.
- AMB17 Development of a Sustainable Recovery Process of Indium from Liquid Crystal Displays of Smartphones Waste.
- AMB18 Iron determination in natural waters using a synthesized 3-hydroxy-4-pyridione ligand in a newly developed μ fluidic paper-based device.
- AMB19 Pre-treatment to increase gold recovery from integrated circuits of smartphones wastes.
- AMB20 Valorization of vine shoots to extract lignin – chemical and structural characterization.
- AMB21 Bioacumulação de Cu em tecidos de *Ucides cordatus* em manguezais da Baía de Todos os Santos, Bahia, Brasil.
- AMB22 Geopolímeros desde residuos de tierras diatomeas para el tratamiento de aguas residuales de la industria vitivinícola.
- AMB23 Potential of macroalgae to remove rare earth elements from contaminated Waters.
- AMB24 Glyphosate and Aminomethylphosphonic acid adsorption in soils.
- AMB25 Searching for a new generation of environmentally compatible antifouling agents.
- AMB26 Screening of the main factors affecting the microwave-assisted extraction (MAE) of phenolic compounds from cork industry waste.
- AMB27 Comparison of Advanced Tertiary Treatments for Pharmaceuticals Removal from a Municipal Wastewater.
- AMB28 Low-cost natural biosorbents for the treatment of contaminated waters.

- AMB29 Silver nanoparticles bioaccumulation assay in marine organisms.
- AMB30 Removal of anthropogenic pollution markers with a nitrogen-doped reduced graphene oxide-PVDF membrane.
- AMB31 Ohmic heating-assisted regioselective sulfonation of aniline: synthesis of sulfanilic acid.
- AMB32 New Trends in Bio-Based Aerogels for CO₂ conversion.
- AMB33 Extractabilidade de metais pesados em solos urbanos de Santiago de Compostela.
- AMB34 Lipidic profile of *Salicornia perennis* in different salt marshes of the Ria de Aveiro.
- AMB35 Optimizing the characterization of microplastics when ir spectrometry using a quantum cascade laser is used.

Póster/Panel

- AMB36 Prospecção fitoquímica das folhas de *Dizygostemon riparius* (Plantaginaceae) morfotipo floral branco.
- AMB37 Evaluación de la degradación del benzo(a)pireno por microalgas y sus extractos enzimáticos por medio de metodología SPE-HPLC.
- AMB38 Ecotoxicity evaluation of treated wastewaters using *Daphnia magna* and *Raphidocelis subcapitata*.
- AMB39 Microplastics in Portuguese agricultural soil: identification by Raman Spectroscopy.
- AMB40 Carbon Materials as Renewable Catalysts for CO₂ Addition to Epoxides.
- AMB41 Plantas aquáticas como bioindicadores da poluição de sistemas estuarinos por metais pesados.
- AMB42 Degradación de láminas conductoras transparentes de óxido de indio dopado con estaño (ITO).
- AMB43 Characterization TiO₂ chemically deposited on ITO substrate for solar cells.
- AMB44 Supervised classification combined with genetic algorithm variable selection for microplastics measured by infrared spectrometry.
- AMB46 Study of carbon matrix supported on carbon fiber as gas diffusion electrode for electrogeneration of oxidants species using a flow-by reactor.
- AMB47 La importancia de la gestión del excedente textil en el nuevo marco de la Ley de Residuos.
- AMB48 Zn-Doped Carbon Catalysts Highly Efficient for Benzodiazepine Synthesis: Tires Valorization.
- AMB49 Quinolines synthesis promoted by carbon catalysts from polyethylene terephthalate (PET). Wastes valorisation.
- AMB50 (Photo)catalytic transformation of HMF into value-added products.
- AMB51 (Photo)catalytic reduction of 4-NPh using TiO₂ from Cork Powder Fly Ashes.

- AMB52 High removal of paracetamol by catalytic wet peroxide oxidation with carbon-coated magnetic nanoparticles.
- AMB53 A microwave-assisted approach for cellulose extraction from Eucalyptus and Pine tree waste products.
- AMB54 Temporal trends of Polycyclic Aromatic Hydrocarbons in soils impacted by a prescribed fire.
- AMB55 Impact of a synthetic aminated 3,4-dioxygenated antifouling xanthone in human retinal cells.
- AMB56 Mejora de la capacidad de adsorción de *hydrochar* de alperujo en la eliminación de compuestos farmacéuticos mediante la funcionalización en un solo paso con grupos amino.
- AMB57 Efecto del envejecimiento marino natural vs simulado en el contenido metálico de microplásticos de biopolímeros.
- AMB58 Cork by-products extracts with added-value for the cosmetic industry.
- AMB59 Hexachlorocyclohexane adsorption assays on two moss species for biomonitoring purpose.
- AMB60 Application of Advanced Oxidation Processes to Industrial and Agro-industrial Wastewater for Energy Production: a Review.
- AMB61 A novel, green and fast chromatographic method to quantify nystatin in pharmaceutical samples: development and validation.
- AMB62 Excess sludge treatment by dewatering and consecutive adsorbent production.
- AMB63 Novel Pitavastatin Calcium Forms: Insights Into a Complex Solid State System.
- AMB64 Bromothymol Blue and Bromocresol Green removal using chitin as a sorbent material: pH, kinetic and equilibrium studies.
- AMB65 Development of Potential Antibacterial Agents through Sustainable Synthetic Strategies.
- AMB66 Highly efficient transition metal-doped carbon catalysts for the selective synthesis of quinoxalines.
- AMB67 Silica-supported molybdenum oxide catalysts for efficient and selective synthesis of quinoxalines.
- AMB68 Adsorption of volatile fatty acids with activated carbons produced from olive pomace.
- AMB69 Production and Characterization of Geopolymeric Mortars From Diatomaceous Earth.
- AMB70 A computer vision approach in identifying foam consolidation.
- AMB71 New functionalized alginate aerogel materials as potential removal agents of diclofenac in water.

- AMB72 Inventory of Best Available Techniques candidates for Bioenergy with Carbon Capture, Storage and Utilization.
- AMB73 Distribución de metais traza en perfís de solos urbanos de Santiago de Compostela.
- AMB74 Influence of mercury from wildfires on mussels: a preliminary study in the Galician estuaries
- AMB75 Vanadium Redox Flow batteries and their effect on grid stability.
- AMB76 Determination of bioactive compounds from cork powder extracts by high-performance liquid chromatography.
- AMB77 Sustainable Use of Batteries According to the Electricity Prices: Energy Management and Lifespan

BIOQUÍMICA Y BIOTECNOLOGÍA

Oral

- BB01 Flavonoids as potential anti-obesity compounds: Inhibition of pancreatic lipase.
- BB02 Building enzymatic nanoreactors using the IC-Tagging system: a powerful methodology for the stabilization and immobilization of enzymes with industrial interest.
- BB03 Soft Free-Standing Membranes made of Chitosan and Alginate as Sustainable Nano-Reservoirs for Controlled Drug/Therapeutics Delivery.
- BB04 Development of an enzyme replacement therapy based on a stabilized version of AvPAL using the IC-Tagging system.
- BB05 Downstream processing of L-asparaginase through silica-based supported ionic liquid-like phase materials

Póster/Panel

- BB06 Development of an enzymatic biosensor based on boron-doped diamond Surface.
- BB07 The effect of calcium in the fermentation of white cabbage and *Salicornia*.
- BB08 Development of a novel phagomagnetic separation protocol coupled with isothermal DNA amplification for a rapid *Campylobacter* detection.
- BB09 Innovative phagomagnetic-assisted isothermal DNA amplification system for endpoint electrochemical detection of *Listeria monocytogenes*.
- BB10 Identificación de novos inhibidores do receptor de coláxeno GPVI mediante un ensaio fenotípico.

CATÁLISIS

Oral

- CAT01 Ionic Liquid-based POM@ZIF-8 as a catalyst for simultaneous desulfurization and denitrogenation processes.
- CAT02 Catalytic membranes based in polyoxometalates for fuel desulfurization.
- CAT03 Metal Organic Frameworks as adsorbents with catalytic properties promoting Advanced Oxidation Regeneration.
- CAT04 Shrimp shells derived electrocatalysts towards oxygen reduction reaction.
- CAT05 Self-assembled binary structures of Fe(III) and metal-free porphyrins for sunlight-assisted catalytic hydrogenation.
- CAT06 Binary Mn(III) and Fe(III) porphyrin nanostructured materials in catalytic hydrogenations assisted by sunlight.
- CAT07 Fabrication of a new $\text{Fe}_3\text{O}_4@\text{TiO}_2$ composite as a magnetic recoverable photocatalyst for degradation of water pollutants.
- CAT08 Hydroformylation-based reactions using chiral binaphthyl monophosphite ligands.
- CAT09 Graphitic carbon nitride coated onto alumina foams as an efficient supported visible-active photocatalyst for the degradation of pharmaceutical substances in water.
- CAT10 *Hydrochars* dopados con nitrógeno para la activación del peroximonosulfato: evaluación para el tratamiento de aguas residuales.
- CAT11 Tri-hybrid catalyst combining polyoxometalates, MOF and silica for the desulfurization of heavy fuel oil.
- CAT12 Electrocatalytic performance of biochar-based catalysts.
- CAT13 Promoted Ni/BEA catalysts for dry reforming of methane.
- CAT14 Sustainable strategies for electrochemical CO_2 reduction.
- CAT15 Remarkable photocatalytic production of H_2O_2 using metal-free doped carbon nitride.
- CAT16 Highly efficient antimicrobial and self-cleaning cotton fabrics coated with graphitic carbon nitride.
- CAT17 Parabens removal using UiO-66- NH_2 under solar light
- CAT18 $\text{C}_3\text{N}_4\text{-SiO}_2$ nanocomposites as visible light-active photocatalytic treatments for building materials.
- CAT19 Ir(I)-catalyzed enantioselective hydrocarbonation of allenes: access to fused heterocycles bearing quaternary stereocenters.
- CAT20 Modulating the performance of electrocatalyst materials.
- CAT21 Sustainable synthetic catalytic processes for transformation of eugenol into potential fragrances.

- CAT22 Asymmetric Michael addition of nitromethane to chalcones mediated by chiral organocatalysts in ionic liquids.

Póster/Panel

- CAT23 Synthesis of $\text{Cu}_2\text{ZnSnS}_4$ by hydrothermal method and its application as Congo Red photocatalyst.
- CAT24 Síntese de nanopartículas de óxido de ferro III dopadas e não dopadas com rutenio utilizando extrato hidro-alcoólico da folha de *Syzygium cumini* (L.) Skeels (jamelão).
- CAT25 Synthesis of nanostructured organometallo-titania hybrid materials and their application in dye degradation.
- CAT26 Iron-based metal organic framework as an active electrocatalyst for water splitting reactions.
- CAT27 Sugar cane-derived solid acid catalysts for the production of fuel additives via glycerol esterification.
- CAT28 Green diesel production *via* hydrogen free sustainable catalytic processes.
- CAT29 Development of oxidative catalytic processes in continuous flow chemistry for drug degradation.
- CAT30 Photocatalytic transformation of biomass-derived compounds into valuable products.
- CAT31 Degradación enzimática del antibiótico sulfametoxazol mediante lacasa *Trametes Versicolor* empleando siringaldehído como mediador redox.
- CAT32 Carbocatalizadores híbridos GO-TiO₂ y G-GP-TiO₂ para reducción del potencial de formación de subproductos de desinfección mediante PAO basados en ozono.
- CAT33 Shrimp shells waste as bioresource for antioxidant extracts and N-doped carbon materials.
- CAT34 Feasibility of continuous flow photo-Fenton treatment using a magnetically separable Fe₃O₄/TiO₂ catalyst.
- CAT35 Comparative study on the correlation of pore sizes of different porous structures (MOF-808, UiO-66-NH₂, ZIF-8) on the catalytic performance of LnPOM-based composites in ODS studies.
- CAT36 Photocatalytic oxidative coupling of amines by titanites perovskites.

EDUCACIÓN Y ENSEÑANZA DE LA QUÍMICA**Oral**

- EDU01 Utilización de metodologías activas para trabajar competencias transversales en asignaturas de Ciencias.

- EDU02 Tres tristes tigres comen mijo en un mijal.
- EDU03 Y nos dieron las diez y las once, las yodo, la una, las dos y las tres.

Póster/Panel

- EDU04 Determinación de la dureza en las aguas. Ablandamiento de aguas por intercambio iónico.
- EDU05 Práctica virtual de Laboratorio de Química: Determinación del calor de combustión y de formación de la aspirina (ácido acetilsalicílico).
- EDU06 Caso Práctico: evaluación de la corrosión en armaduras de hormigón por medio de la medición del campo potencial.

QUÍMICA INDUSTRIAL E INGENIERÍA QUÍMICA**Oral**

- IND01 Captura de CO₂ con carbones preparados a partir de serrín de pino (*Pinus radiata*)
- IND02 Study and modeling of the equilibrium and dynamics of post-combustion CO₂ adsorption using carbon-based adsorbents.
- IND03 Estudio físico-químico de sistemas de Triton X-102 + sales.
- IND04 Viscosidad dinámica de sistemas binarios n-octano +1-alcohol.
- IND05 Obtainment of different biosurfactant extracts from corn steep liquor depending on the extraction process.
- IND06 Biodiesel production from residual cooking oils and its purification by adsorption processes based on adsorbents of natural origin.
- IND07 Study of biodiesel production from waste cooking oil by ethyl transesterification and its purification using adsorption processes.
- IND08 Identification of gramicidin in biosurfactant extract by ESI-MS: a preliminary study.
- IND09 Antioxidant activity of biosurfactant extracts obtained from corn steep liquor.
- IND10 Optimization of the hydrothermal extraction of antioxidants from *Opuntia ficus-indica*.
- IND11 Valorization of liquid and solid extracts from *Undaria pinnatifida* using microwave assisted extraction.
- IND12 Characterization of the Mediterranean green algae *Caulerpa prolifera* and investigation of its antioxidant capacity using green extraction assisted by microwaves.
- IND13 Modeling and simulation of biomass pyrolysis processes.

Póster/Panel

- IND14 Synthesis of activated carbons from food and wood industrial by-products and application for dyes removal.
- IND15 Removal of the inert coating from waste printed circuit boards using NaOH solutions under autoclaving treatment.
- IND16 Effect of Dialysis and Purification on Bioactivity of *Ascophyllum Nodosum* Seaweeds Extracts.
- IND17 Sugars and short-chain oligogalacturonides production from lemon peels.
- IND18 Effect of Method, Solvent and Liquid–Solid Ratio on Phlorotannins Extraction From *Ascophyllum Nodosum* Seaweeds.
- IND19 Sequential production of oligogalacturonides and arabinooligosaccharides by autohydrolysis of sugar beet pulp.
- IND20 How the addition of polyphenols from *Ascophyllum nodosum* seaweeds affects to corn starch gels rheology.
- IND21 Adsorption of polyphenols extracted from *Ascophyllum nodosum* seaweeds on native corn starch and corn starch gel.
- IND22 *Eucalyptus globulus* wood fractionation by organosolv processing.
- IND23 One-pot fractionation of *Pinus pinaster* wood by biphasic delignification with butanol/water.
- IND24 Concentration and purification of pectin extracts from sugar beet pulp using different ultrafiltration/diafiltration configurations.
- IND25 Recovery of humic acids from mixed municipal waste compost with alkaline extraction.
- IND26 Ecofriendly extraction of phenolic compounds from Galician hop (*Humulus lupulus* L.) leaves using deep eutectic solvents.
- IND27 Selective fractionation of olive tree prunings using partially immiscible mixtures of water and alcohols.
- IND28 Solubilization of hemicelluloses and lignin from Robinia wood via microwave-assisted autohydrolysis and delignification with deep eutectic solvents (DES).
- IND29 BECCSU con captura de simulación de procesos hacia la sustentabilidad.
- IND30 Optimizing spray drying conditions for green extracts from a commercial hop variety.
- IND31 Bioactive Phenolic Compounds Extraction from Avocado Peels employing Deep Eutectic Solvents.
- IND32 Potato peels waste as a sustainable source for biotechnological production of biofuels using very high gravity strategies.
- IND33 Delignification of autohydrolyzed *Acacia dealbata* wood using carboxylic acid-based deep eutectic solvents (DESs).

- IND34 Deslignificación de madeira de *Paulownia* utilizando disolventes eutécticos profundos.
- IND35 Delignification assessment of vine shoots using deep eutectic solvents.
- IND36 Ultrasound-assisted depolymerization of oligocarrageenan from *Mastocarpus stellatus*.
- IND37 Valorization of CO₂ to chemicals using iron carbides as catalyst.
- IND38 How the addition of polyphenols from *Ascophyllum nodosum* seaweeds affects to corn starch gels rheology.
- IND39 Determinación de la curva de Destilación ASTM D-86 de una gasolina comercial.
- IND40 Ensayo mecánico de dobladura de un acero F-1120. Práctica de laboratorio.
- IND41 Extração de aromas para o desenvolvimento de kits aromáticos associados ao vinho.
- IND42 Potencialidad de la lignina en la mejora técnica y medioambiental de las carreteras.

NANOQUÍMICA Y NANOTECNOLOGÍA

Oral

- NN01 Size and coating-dependent toxicity of silver nanoparticles to human monocytes and macrophages.
- NN02 Electroactive porous frameworks based on redox-active organic building blocks for electronics applications.
- NN03 New electrodes based on redox-active porous materials towards more efficient batteries.
- NN04 Optimization of one-pot microwave synthesis of multicolored carbon dots.
- NN05 WO₃_naphthopyran hybrid nanomaterials: the new frontier to accomplish enhanced light-responsive textiles.
- NN06 Casein Micelles: Optimizing Encapsulation Towards Polyphenols Delivery.
- NN07 Synthesis of TGA-capped CdTe quantum dots with controllable fluorescence wavelength.
- NN08 Magnetic nanoparticles for removing rare earth elements from water.
- NN09 Formulation of polymeric nanoparticles using a membrane fraction extract obtained by subcritical water extraction from *Laminaria ochroleuca* brown seaweed.
- NN10 A new approach for assessing silver and titanium dioxide nanoparticles in tap water samples.
- NN11 Dehydropeptide-Based Self-Assembled Hydrogels: *soft* nanostructured materials for the development of theranostic platforms.

- NN12 Stimulus-responsive liposomes as a smart platform for prednisolone delivery to activated macrophages.
- NN13 New Approaches for CO₂ Methanation in Ionic Liquid Systems.
- NN14 Mitoxantrone-loaded lipid nanoparticles as a promising therapeutic strategy for breast cancer: two different functionalization strategies.
- NN15 Advanced LIBS based on nanosilicon and lignocellulosic-based composites.
- NN16 Searching for the chemistry that works: formulating hydrogels and nanogels towards atopic dermatitis therapy.
- NN17 Biomass derived components to improve energy storage systems.
- NN18 Characterization of κ - and ι - carrageenans-based hydrogels as potential vehicles in skin delivery.
- NN19 Quantum dots and chemometrics: potential and advantages.
- NN20 Verteporfin-loaded lipid nanoparticles as an effective approach for cancer photodynamic therapy.

Póster/Panel

- NN21 New architectures in soft materials for combined cancer therapy: multifunctional dehydrodipeptide-based lipogels with magneto-plasmonic properties.
- NN22 Self-assembly of bolaamphiphiles based on dehydropeptides.
- NN23 Effect of Different Casein Removal Methods on the Purity and Yield of Milk-derived Exosomes.
- NN24 Gold nanoparticles synthesized by natural photosensitizer hypericin.
- NN25 Migration of cellulose nanocrystals from a PLA multilayer film functionalized by Ultrasonic Spray Coater.
- NN26 Honey2KILL: antimicrobial Portuguese honey towards superbugs.
- NN27 Multiple Lipid Nanoparticles loaded with essential oils as a new approach towards antimicrobial mastitis infection.
- NN28 Naringin nano-delivery systems for inflammatory conditions.
- NN29 The role of chemical modified SiO₂ nanoparticles in the tribological performance of a paraffinic oil.
- NN30 Development of a Fluorescent Nanostructured Lipid Carrier (NLC) by a High-energy method.
- NN31 New supramolecular hypergelators based on dehydroamino acid residues for biomedical applications.
- NN32 Nanoplatforms drive slow down in skin ageing.
- NN33 Nanolubricants stability: surface modification of nanoparticles.
- NN34 Enhanced antioxidant activity of silver nanoparticles synthesized by *Codium tomentosum* aqueous extract.

QUÍMICA DE POLÍMEROS

Oral

- POL01 Silylated poly(azomethine)s with possible applications in the optoelectronic field. Synthesis and characterization.
- POL02 Cómo minimizar el rechazo de implantes empleando la química click.

QUÍMICA ANALÍTICA

Oral

- QA01 Desenvolvimento dun marco analítico para a determinación de contaminantes orgánicos persistentes e móbiles en mostras de urina.
- QA02 Optical sensors for amine vapours detection and discrimination.
- QA03 Screening of organic micropollutants in mollusc and fish samples from the Portuguese coast by combining liquid and gas chromatography with high resolution mass spectrometry.
- QA04 Desenvolvimento dun método para a determinación de biomarcadores do uso de cannabinoides mediante a análise de augas residuais con fins epidemiolóxicas.
- QA05 Automatic on-line renewable micro-solid-phase extraction hyphenated to tandem mass spectrometry for the determination of uremic toxins in plasma.
- QA06 Determination of acid lactase activity resorting to a high-throughput kinetic method.
- QA07 Concanavalin A biosensor for evaluation of biopharmaceuticals.
- QA08 Estudo do emprego de drogas ilícitas, alcohol e tabaco en España e Portugal durante a crise da COVID-19 en 2020 a través da análise de augas residuais con fins epidemiolóxicas.
- QA09 Assessing the presence of organic micropollutants in surface water.
- QA10 Immobilization of CYP3A4 on surface-modified electrodes: assessment of electroanalytical and electrocatalytic properties.
- QA11 Valorização de espécies mediterrânicas subutilizadas: obtenção de óleo essencial com propriedades bioativas.
- QA12 Semi-preparative separation and racemization study of MDPV enantiomers by liquid chromatography and absorption study on Caco-2 model.
- QA13 Continuous flow bioconjugation of a fluorescent coumarin-lipid probe as a chemical reporter for membrane oxidation.
- QA14 Determinação cinética do ácido acetilsalicílico usando pontos quânticos de CdTe e de AgInS₂ como sondas fluorescentes e U-PLS e ANN como ferramentas quimiométricas.

- QA15 Development of a new mesofluidic platform to assess metal-based dihydrofolate reductase inhibitors.
- QA16 Estudio fluorescente de la amina biógena Triptamina y su aminoácido precursor (Triptófano).
- QA17 Validation of a method to quantify essential and potentially toxic elements in raw and cooked food matrices.
- QA18 *In vitro* inhalation bioaccessibility estimation of atmospheric PM-associated organic compounds using simulated biological fluids.
- QA19 Automatic identification of myeloperoxidase natural inhibitors in plant extracts.
- QA20 As vantagens do uso da quimiometria na química analítica.
- QA21 Low pressure chromatographic system with multiple pulse amperometric detection for multi-analyte determination in green coffee extracts.
- QA22 Quantitative analysis of phosphopeptide enrichment methods.
- QA23 Overcoming the seawater trace elements analysis challenge in a SPE-flow-based approach.
- QA24 Finding biomarkers of ruminal acidosis through targeted and untargeted metabolomic analysis through *in vitro* rumen fermentation assays.
- QA25 Renewable immunosensors based on lab-on-valve flow systems.
- QA26 Detetores baseados em imagem: desenvolvimento e aplicação.

Póster/Panel

- QA27 Polycyclic Aromatic Hydrocarbons Determination in Human Adipose Tissue.
- QA28 Aplicaciones De La Microscopía RAMAN Confocal.
- QA29 Paper-based analytical devices for instrumental and smartphone-based fluorimetric sensing of environmentally relevant inorganic species.
- QA30 Development of a novel cost-effective method for the density separation of microplastics from marine sediments, followed by quantitative ^1H -nuclear magnetic resonance spectroscopy determination.
- QA31 Determination of Sulfide in Waters by Smartphone-Based In-Drop Colorimetric Plasmonic Sensing involving hydrophobized PADs.
- QA32 Occurrence and persistence of fungicides and insecticides in vineyard soils.
- QA33 GC-MS screening method for the identification of semi-volatile compounds in bio-based and biodegradable food packaging materials.
- QA34 Composição fenólica e atividade biológica de extratos de casca e ramos de *Juniperus communis* L. (zimbardo comum).
- QA35 Evaluación de la presencia de residuos de fungicidas e insecticidas en cerveza mediante cromatografía de líquidos y espectrometría de masas en tándem.

- QA36 Direct, automated and sensitive determination of glyphosate and related anionic pesticides in environmental water samples using SPE on-line combined with LC-MS/MS.
- QA37 Comprehensive characterization of volatile and semi-volatile compounds in e-liquids formulations for electronic cigarettes by gas chromatography accurate mass spectrometry.
- QA38 Estudio espectrofluorimétrico del pesticida imidacloprid y su principal metabolito el ácido 6-cloronicotínico.
- QA39 Time-Resolved Fluorescence Excitation-Emission spectroscopy and PARAFAC to solve overlapping signals.
- QA40 Analytical Quality by Design for selecting optimal experimental conditions of a head space-solid phase microextraction for several phthalates analyzed by CG-MS.
- QA41 Deseño de fase estacionaria para a separación de nanopartículas metálicas mediante cromatografía líquida.
- QA42 Evaluation of agriculture plastics as vehicles of pesticides and concerning pollutants in the environment.
- QA43 Single-cell-icp-ms measurements for studying silver nanoparticles internalization in cell lines from sea-bass and clams.
- QA44 Statistical experimental design to determine phenolic compounds in seawater by the AgNPs synthesis.
- QA45 Matrix solid-phase dispersion and ultrasound-assisted extraction in the extraction and polyphenolic characterisation from five varieties of brown algae.
- QA46 Determinación de nanopartículas de dióxido de titanio en piensos empleados en acuicultura.
- QA47 Revisión bibliográfica del empleo de reacciones fotoquímicas en electroanálisis.
- QA48 Electrochemical evaluation of the psychoactive recreational drug 4-bromo-2,5-dimethoxyphenethylamine (2C-B).
- QA49 Microencapsulation of benzyl isothiocyanate using β -cyclodextrins.
- QA50 Determinación de medicamentos en aguas superficiales mediante inyección directa en cromatografía de líquidos acoplada a espectrometría de masas.
- QA51 Firefighters' personal exposure to airborne polycyclic aromatic hydrocarbons during controlled forest fires.
- QA52 O uso de uma sonda raciométrica combinando pontos quânticos de carbono e de AgInS₂ para a determinação de histamina recorrendo a modelos quimiométricos.
- QA53 Potential inhibitory effect of new xanthenes on acetylcholinesterase: an automatic assay.
- QA54 Development of a microfluidic paper-based analytical device for the determination of iodide.

- QA55 Characterization of *Achillea millefolium* flower extracts as ingredients in organic cosmetics.
- QA56 UPLC-MS lipidomic approach to evaluate potential biomarkers for the differentiation of HIV/HCV progressive stage.
- QA57 Ion mobility spectrometry for the rapid and simultaneous analysis of three common analgesics
- QA58 Partículas de caucho procedentes de ruedas de coche: determinación de agentes químicos relacionados con la mortalidad de especies acuáticas
- QA59 Desenvolvimento dun método analítico baseado na extracción asistida por ultrasóns seguido de cromatografía líquida acoplada a espectrometría de masas en tándem para a determinación de herbicidas en solos.
- QA60 Estimación del comportamiento en frío del biodiesel.
- QA61 Dilución por biocombustible del aceite lubricante.
- QA62 Evaluation of the Phenolic Content of Galician Honeys to Identify their Botanical Origin.
- QA63 Electrochemical determination of cholecalciferol in water-ethanol mixtures using a glassy carbon electrode and unmodified screen-printed carbon electrodes.
- QA64 Exploring the emission of volatile carbonyl compounds from wood-based panels by GDME and HPLC-DAD-MS/MS.

QUÍMICA FÍSICA

Oral

- QF01 Development of Chemiluminescent Halogenated Coelenterazine Derivatives with Anticancer Potential.
- QF02 Probucol – solvent effects on polymorph crystallization.
- QF03 Active regulation of thermal transport using light-responsive molecular materials.
- QF04 Understanding the physics of exchange of the alkaline metal on nitrate salts mixtures with ethylammonium nitrate.
- QF05 β -Amyloid aggregation or phase separation induction by electrostatic interactions with small biomolecules.
- QF06 Nanostructured Polythiophene Materials for Electrochromism.
- QF07 New insight in 4th generation battery: Pure Ionic Liquid as functional quasi-solid electrolyte.
- QF08 Flavylum-cucurbit[8]uril supramolecular polymers as photorheological fluids.
- QF09 Alkylsilane and alkylsiloxane effect on the thermodynamics of ionic liquids.
- QF10 Electrical Conductivity of Ionic liquids by Multi-frequency Impedance Methodolgy

- QF11 Towards fine-tuning charge in vesicular drug delivery systems: role of spacer in cationic *gemini* surfactants at the air/water interface.
- QF12 Environmental mobility of pesticides and agrochemical metabolites: volatility and phase transitions properties of some dichlorobenzonitrile isomers.

Póster/Panel

- QF13 Localization and interaction of 3-hydroxy-4-pyridinone chelators with DMPC model membranes: A DSC and EPR Study.
- QF14 The effects of DMSO on the thermal properties of DMPC liposomes.
- QF15 Caracterización fotofísica da interacción do 6-amino-2-ciano-1,3-benzotiazol con proteínas amiloides e seroalbumina humana e bovina.
- QF16 Thermal and photochemical reactions of n-pyridinechalcones ($n = 2', 3', 4'$).
- QF17 *iSenseDSC*: a high precision microcalorimeter.
- QF18 Exploring the effect of nanostructuration on the thermophysical properties of the 1-alkyl-3-methylimidazolium triflate series.
- QF19 Extensive Study of the Electrical Conductivity of Imidazolium Ionic Liquids: the Anion Effect.
- QF20 Energetic study of methyl-indanones with potential application in thermochemical processes.
- QF21 Uso do intercalador Laranxa de tiazol para a detección e cuantificación de ADN de dobre febra.

QUÍMICA INORGÁNICA

Oral

- QI01 Dinuclear copper(II) complexes as models for metalloenzymes.
- QI02 Single ion magnets of macrocyclic N_5 and N_6 ligands.
- QI03 Direct C-H arylation of dithiophene-tetrathiafulvalene: tunable electronic structure and 2D self-assembled molecular networks on surface.
- QI04 Atmospheric carbon dioxide activation by a cobalt complex.
- QI05 An efficient route to coinage metal mesocates.
- QI06 A dysprosium field-induced single molecule magnet with a N_3O_2 flat donor.
- QI07 Síntese, caracterización e estudo das propiedades biolóxicas de E,Z -[RuCl(η^6 -*p*-cimenol)(κ^2 -N3,*S*-TSC)]⁺ (TSC = tiosemicarbazona).
- QI08 Au(III) π -Allyl Complexes: From Structure Analysis to Catalysis.

Póster/Panel

- QI09 A metal-coordination-triggered carbamate hydrolysis process.
- QI10 A magneto-structural study of a mononuclear dysprosium complex with a Schiff base N_6 donor.
- QI11 Luminescent cyclometalated Pt^{IV} compounds bearing phenanthroline-based ligands with antiproliferative activity.
- QI12 Obtaining an azine ligand via a thiocarbonylhydrazone desulfurization process.
- QI13 Inorganic nanoparticles for the detection of circulating proteins associated with the response/resistance to neoadjuvant chemotherapy in HER2-positive breast cancer.
- QI14 Silver nanoparticles for the detection of circulating serum protein biomarkers of non-muscle invasive bladder cancer.
- QI15 Síntese de hidrocarburos iridaaromáticos policíclicos.
- QI16 A new peroxo-complex of dysprosium with single-molecule magnet behaviour.
- QI17 Synthesis of tridentate [C, N, S] iminophosphorane cyclometallated palladium compounds.
- QI18 Active antitumoral thiosemicarbazone platinacycles.

QUÍMICA ORGÁNICA

Oral

- QO01 Síntesis de nuevos sesquiterpen-polifenoles, actividad citotóxica y estudios de acoplamiento molecular inducido (*Docking*).
- QO02 Síntese de análogos de nucleósidos e nucleótidos baseados em unidades de D-glucuronamida e contendo um anel 1,2,3-triazole potencialmente bioativos.
- QO03 Nitrones' rearrangements: 7 WONDERS.
- QO04 Multistate of chemical reactions of 7-diethylamino-4'-dimethylaminoflavylum. Thermodynamics, kinetics and Photochemistry modulated by water: ethanol, SDS and CTAB micelles.
- QO05 Synthesis and anti-*Candida* Activity of Aminated Thioxanthenes.
- QO06 Chiral pool synthesis of new flavones with potential antitumor activity.
- QO07 Influence of proton transfer on the luminescence of organic dyes.
- QO08 Estrategia sintética para la obtención del primer análogo tipo Gemini del maxacalcitol.
- QO09 Enhancing photophysical properties of BODIPYs through oxime and hydrazone functionalization: novel imaging agents.
- QO10 Synthetic access to new indazole derivatives with promising anticancer features.
- QO11 Polysaccharides from marine sources: synthesis of derivatives and tumor cell growth inhibition.

- QO12 Synthesis of fumiquinazoline analogues with antibacterial, anti-biofilm and efflux pump inhibition potential.
- QO13 Exploring the reactivity of a commercial diketopyrrolopyrrole.
- QO14 New porphyrins for dye-sensitized solar cells.
- QO15 Mild synthesis of nitrobenzenes from 3-formylchromones.
- QO16 Ru(III) and Ir(III) complexes bearing porphyrin moieties: synthesis and photosensitizing activity against resistant melanoma cells.
- QO17 Ohmic heating-assisted palladium-catalyzed cross-coupling reactions for the synthesis of C-glycosylquinolones.
- QO18 Irá a inteligência artificial assumir o papel do Químico? Um estudo de caso com a reação carbonilativa de Suzuki.
- QO19 Synthesis and characterization of porphyrins bearing electronic donating groups at *meso*-positions to be used as hole-transporting materials in perovskite solar cells.
- QO20 Preparation of Open-Shell Polycyclic Conjugated Hydrocarbons based on Truxene
- QO21 Towards the synthesis of large acenes, starphenes, and closely related structures
- QO22 Synthesis of Soluble Trigonal Nanographenes by Pd-catalyzed Aryne Cyclotrimerization.
- QO23 Synthesis of new porphyrin–fullerene conjugates for application in dye-sensitized solar cells.
- QO24 α -Substituted 2-benzylchromones as monoamine oxidase inhibitors for the treatment of neurological disorders.

Póster/Panel

- QO25 Larvicidal activity of the fungus *Penicillium* sp. 27 against *Culex quinquefasciatus*.
- QO26 Photoredox transformations of Quinic Acid.
- QO27 Synthesis and structure elucidation of metabolites of the synthetic cathinones pentedrone and methylone for further metabolism studies.
- QO28 Discovery of new eugenol-azole hybrids as candidates of potent trypanocidal agents.
- QO29 From the bottom of ocean to the lab: synthetic strategies of cyclic peptide marine-derived.
- QO30 Curcumin-based molecular probes for fluorescence imaging of fungi.
- QO31 New open-chain carbohydrate amides: synthesis, docking studies and acetylcholinesterase.
- QO32 Synthetic access to new fused thiazoloindazole as acetylcholinesterase inhibitors: synthesis, characterization and molecular docking studies.

- QO33 Synthesis of hexahydropyrroquinolines-2,3-diol, analogues of swainsonine, and prediction by molecular modeling of their inhibition power towards human Golgi α -mannosidase II.
- QO34 New 4-aminoacridine-cinnamic acid conjugates as multi-stage antimalarial hits.
- QO35 Docking-based Virtual Screening as a tool to identify new small molecules targeting SARS-CoV-2.
- QO36 Preparation benzoporphyrin-based photosensitizers.
- QO37 Synthesis of novel C-glycosyl flavonoids.
- QO38 Metal Ion Sensors Based on Thiazolo[5,4-*d*]thiazoles.
- QO39 Organocatalytic properties of the iminosugar DAB.
- QO40 Expanding the Library of Cyclopentadienone Iron Tricarbonyl Complexes: Synthesis and Characterization of Novel Precatalysts.
- QO41 Divergent syntheses of iminocyclohexitols and polyhydroxylated pipecolic acids.
- QO42 Squaraine dyes derived from benz[*e*]indole as fluorescent probes for human serum albumin detection and quantification.
- QO43 Study of the supramolecular self-assembly of Cu(II) complexes of pyridoxal derived ligands.

QUÍMICA Y SALUD

Oral

- QS01 Mining the *Leishmania* Kinome.
- QS02 O receptor da vitamina D como unha nova diana para o tratamento do cancro de mama.
- QS03 QT04.
- QS04 Melanostatin Aza-Peptides as Potent Allosteric Modulators of the Dopamine D₂ Receptors.
- QS05 Discovery of Melanostatin-Based Potent Modulators of the Dopamine D₂ Receptors Using Furoic Acids as Proline Surrogates.
- QS06 Uma Abordagem Bioisotérica na Descoberta de Potentes Análogos da Melanostatina Usando β -Aminoácidos.
- QS07 Bio-guided optimization of *Cystoseira abies-marina* cosmeceuticals extraction by advanced technologies.
- QS08 New synthetic cinnamic acid-flavone hybrids with promising photoprotective, anti-inflammatory and antioxidant activities.
- QS09 New insights into the anti-inflammatory effects of 2-stryrylchromones.
- QS10 Pyrroloquinolone-based hybrid compounds multitargeting the electron transport chain of *Mycobacterium tuberculosis*.

- QS11 Recent advances in cancer therapies *via* carbon nanomaterials functionalized with porphyrins and analogues.
- QS12 Anti-inflammatory activity of 2-styrylchromones in Human fibroblast like synoviocytes.
- QS13 Urea derivatives of β -carboline indole alkaloids for reversing multidrug resistance in cancer.
- QS14 Evaluation of the cytotoxicity effects of flavonol derivatives in human lung fibroblasts.
- QS15 Active Pharmaceutical Ingredient's multicomponent solid forms: a contribution to enhance the trimethoprim biopharmaceutical performance.
- QS16 Polyhydroxylated *bis*-chalcones: potential new inhibitors of cyclooxygenase 2.
- QS17 Synthesis of naringenin sulfates and evaluation of their anti-inflammatory activity.
- QS18 Cationic imidazolyl porphyrins bearing amphiphilic side chains combined with antimicrobials: new strategies to potentiate *E. coli* photodynamic inactivation.
- QS19 Design of a disposable μ PAD for on-hand quantification of urinary creatinine.
- QS20 Development of Photoactive Materials for Photodynamic Therapy Based Applications.
- QS21 Developing a computer-aided drug design approach to discover lead-like Phosphomannomutase 2 pharmaco-chaperones for congenital disorders of glycosylation (CDG) therapy.
- QS22 New insights on the antimicrobial properties of amino-based flavylum dyes: promising candidates for photodynamic inactivation of bacteria.
- QS23 Fluorinated contrast agents for application in ^{19}F MRI and PET.
- QS24 New families of multi-target direct ligands for Alzheimer's Disease.
- QS25 Estudo integrado da influência do tipo de cultivo e irrigação nas propriedades bioativas de *Cichorium spinosum* L.
- QS26 Synthesis of di-imidazolyl porphyrins and their chlorin derivatives for photoinactivation of bacteria and viruses.
- QS27 Improving benzisothiazolinone (BIT) effectiveness by cyclodextrin's encapsulation: Ecotoxicity and Antibacterial studies.
- QS28 Peptide/ionic liquid-based therapeutics for the topical treatment of skin infections.
- QS29 *Guiera senegalensis*: On the track of biofungicides development.
- QS30 Unveiling membrane dependent mechanism of action of molecules with anticancer activity.
- QS31 Water-soluble pyridinium-pyrazole phthalocyanines for photodynamic inactivation of Phage Phi6 as SARS-CoV-2 Model.
- QS32 β -Phospholactams as a novel chemical tool to target serine hydrolases.

- QS33 Synthesis, characterization and antibacterial profile of new GUMBOS.
- QS34 Tricyclic compounds derivatives as new potential neuroprotective agents.
- QS35 Development of new multitarget-directed ligands with potential application in alzheimer's disease.
- QS36 Following-up bladder cancer patient's response to therapy.
- QS37 High-resolution absolute quantitative proteomics revealed new immunohistochemical markers of oncocyctic renal neoplasms.
- QS38 The effect of varying the complexity of amines introduced into the squaric ring on the photobiological activity of aminosquaraine dyes.
- QS39 Anti-proliferative effect of novel chlorophyll derivatives in breast cancer cell lines
- QS40 The wound healing properties of starch-based photoactive materials.
- QS41 Design, synthesis and evaluation of novel antileishmanial agents.
- QS42 Synthesis and biological evaluation of acridine-triazine hybrids as acetylcholinesterase and butyrylcholinesterase inhibitors.
- QS43 Silica nanomaterials based on ionic antimicrobial agents for infectious therapeutic diseases.
- QS44 Porfirinas sulfonamidas como agentes fotossensibilizadores para inativação de bactérias multirresistentes
- QS45 New hexadentate Fe chelator: an EPR study to access chelator interaction with liposome membrane models.
- QS46 Pharmaceutical cocrystals: Design approaches.
- QS47 Cytotoxicity induced by 3',4',7-trihydroxyflavone derivatives in *in vitro* models of osteosarcoma.
- QS48 Can infrared analysis of blood plasma assist diagnosis of respiratory viral infection

Póster/Panel

- QS49 Conjugation of carbon nanomaterials with tetrapyrrolic macrocycles: Applications & challenges.
- QS50 Synthesis, characterization and evaluation of the cytotoxic activity against A549 cell line of 2,6-diformyl-4-methylphenol hydrazones.
- QS51 Synthesis, characterization and DNA binding of a vanadium (V) complex derived from 2,6-diformyl-4-methylphenol.
- QS52 Estudos sobre a síntese de novos heterociclos baseados na unidade de cromeno e purina.
- QS53 Fighting bacterial infections: antimicrobial peptides and ionic liquids.
- QS54 Study of new derivatives based on coelenterazine for photodynamic therapy.
- QS55 Discovery of Neuroprotective Hits Using 2-Azanorbornane as a Constrained Proline Surrogate in Glypromate Neuropeptide.

- QS56 Design, Synthesis, and Biological Evaluation of Glypromate-Based Neuroprotective Conjugates with Pharmaceutical Active Ingredients.
- QS57 Fluoroquinolone metalloantibiotics: fighting *Staphylococcus aureus* infections.
- QS58 BDDE, a marine bioactive metabolite, as inspiration for the synthesis of chalcone derivatives to fight antimicrobial resistance.
- QS59 Point-of-care determination of calcium in saliva using a developed microfluidic paper-based analytical device.
- QS60 Cromeno[2,3-*b*]piridinas: síntese e avaliação do potencial anticancerígeno para o cancro da mama.
- QS61 Indoor levels of fine and ultrafine particles at Portuguese fire stations.
- QS62 Towards the “greenness” of a chemical synthesis of a new antifouling compound.
- QS63 Synthesis of new surface-active ionic liquids derived from antimalarial drugs and bile acids.
- QS64 Synthetic triazole compounds as potential inhibitors of SARS-CoV-2 attachment into host cells.
- QS65 *Synthesis and in vitro* evaluation of *versatile cell-penetrating* mitochondriotropic antioxidants.
- QS66 Tailoring VAS2870 scaffold to develop new covalent NOX2 inhibitors.
- QS67 Fiscalins: a new source of substance P antagonists?.
- QS68 Beyond chemical bonds.
- QS69 Bladder Cancer: The Future of Diagnostic and Patient Monitoring.
- QS70 Development of a Robust Ultrasonic-Based Sample Treatment to Unravel the Proteome of OCT-Embedded Solid Tumor Biopsies.
- QS71 Biotin-bearing squaraine dyes as potential antitumor photodynamic agents: an *in vitro* preliminar study.
- QS72 How the selectivity of Zn(II) ligands towards G4 DNA structures is influenced by the number and position of the positive charges.
- QS73 Low serum bromine levels in chronic hemodialysis patients – is there any clinical impact? .
- QS74 Trace element imbalances in hemodialysis patients: new data from a cohort of Portuguese patients.
- QS75 Association between natural exposure to lithium and suicide rate: an ecological and human biomonitoring study in northern Portugal.
- QS76 Reference intervals for whole blood trace elements in the Angolan adult population.
- QS77 The effect of repeated blood donation on whole blood trace element status – a cross-sectional study in Angolan donors.
- QS78 Synthesis of new purine nucleosides as potential biometal chelators and cholinesterase inhibitors.

- QS79 New halogen hydrazones derived from pyridoxal and their biological behavior.
- QS80 Benz[e]indole and indolenine squaraine dyes derivatives as antifungal agents and fluorescent probes.
- QS81 Exploring the bioactive potential of *Artemisia annua* L. hydroethanolic extracts obtained by microwave-assisted extraction.
- QS82 Development of a pH-sensitive dressing for clinical monitoring of chronic wounds.

QUÍMICA TEÓRICA

Oral

- QT01 Interface between BmimPF₆ ionic liquid and gold metal surface from MD simulations perspective.
- QT02 The Reaction Mechanism of SARS-CoV-2 Spike Protein Cleavage by TMPRSS2: A Quantum Mechanics/Molecular Mechanics Study.
- QT03 (Non)-Polarizable models for magnetic ionic liquids.
- QT04 Interface between BmimPF₆ ionic liquid and gold metal surface from MD simulations perspective.
- QT05 Composición lipídica alterada provocada por COVID en fase aguda y persistente y la influencia del sistema inmune innato: Un estudio de Dinámica Molecular.
- QT06 Back to the Chirality in Coarse-Grained Cyclic Peptides: The Ma(R/S)ini parametrization.
- QT07 Exploring innate immune system peptides and their cell membrane interaction.

Póster/Panel

- QT08 Study of Sodium Hexanoate and Dodecanoate Salt-Based Eutectic Solvents by Molecular Dynamics Simulation Approach.