

- ACTIVIDAD INVESTIGADORA -

PUBLICACIONES CIENTÍFICAS INDEXADAS DE ACUERDO CON UN ÍNDICE DE CALIDAD RELATIVO

- 2020: Anisotropy and mechanistic elucidation of wet-chemical gallium nitride etching at the atomic level
- 2020: Self-assembly of hollow organic nanotubes driven by arene regioisomerism
- 2020: Biopolymers as sustainable metal bio-adhesives
- 2020: Biostimulant nanoencapsulation: The new keystone to fight hunger
- 2020: Optical, morphological and photocatalytic properties of biobased tractable films of chitosan/donor-acceptor polymer blends
- 2020: Thermoresponsive shape-memory hydrogel actuators made by photo-triggered click chemistry
- 2020: Effect of reaction media on photosensitized [2+2]-cycloaddition of cinnamates
- 2020: Novel fluorescent labeled octasilsesquioxanes nanohybrids as potential materials for latent fingerprinting detection
- 2020: Use of a pH-sensitive polymer in a microextraction and preconcentration method directly combined with high-performance liquid chromatography
- 2020: Mucin-grafted polyethylene glycol microparticles enable oral insulin delivery for improving diabetic treatment
- 2020: Insulin-mucoadhesive nanoparticles based on mucin-chitosan complexes for oral delivery and diabetes treatment
- 2020: Influence of the epitaxial composition on N-face GaN KOH etch kinetics determined by ICP-OES
- 2020: Recent applications of biphotonic processes to organic synthesis
- 2020: Sulfonamide as amide isostere for fine-tuning the gelation properties of physical gels
- 2020: Biopolymers in sorbent-based microextraction methods
- 2019: Antimicrobial activity of poly(3,4-ethylenedioxythiophene) n-doped with a pyridinium-containing polyelectrolyte
- 2019: Use of a bis-1,2,3-triazole gelator for the preparation of supramolecular metallo gels and stabilization of gold nanoparticles
- 2019: Alginate hydrogels as scaffolds and delivery systems to repair the damaged spinal cord
- 2019: Biopolymer/glycopolyptide-blended scaffolds: Synthesis, characterization and cellular interactions
- 2019: Understanding hydrogelation processes through molecular dynamics
- 2019: Cationic niosomes as non-viral vehicles for nucleic acids: Challenges and opportunities

in gene delivery

- 2019: Dipolar glass polymers containing polarizable groups as dielectric materials for energy storage applications. A minireview
- 2019: Niosomes encapsulated in biohydrogels for tunable delivery of phytoalexin resveratrol
- 2019: Exploring the effect of the irradiation time on photosensitized dendrimer-based nanoaggregates for potential applications in light-driven water photoreduction

- 2019: Expanding the limits of amide-triazole isosteric substitution in bisamide-based physical gels
- 2019: Highly selective metallogel from 4-biphenylcarboxy capped diphenylalanine and FeCl₃
- 2019: Polymer topology-controlled self-healing properties of polyelectrolyte hydrogels based on DABCO-containing aromatic ionenes
- 2019: Recent strategies in resveratrol delivery systems
- 2019: The prospect of photochemical reactions in confined gel media
- 2019: 5-(1H-1,2,3-Triazol-5-yl)isophthalic acid: A versatile ligand for the synthesis of new supramolecular metallogels
- 2019: On the sensitivity of alginate rheology to composition
- 2019: Metal- and oxidant-free photoinduced aromatic trifluoromethylation performed in aerated gel media: Determining the effects on yield and selectivity
- 2019: Novel 3D copper nanoparticles/chitosan/nanoporous alumina (CCSA) membranes with catalytic activity. Characterization and performance in the reduction of methylene blue
- 2018: Photon upconversion in supramolecular gels and synthetic application
- 2018: Wet-chemical etching of GaN: Underlying mechanism of a key step in blue and white LED production
- 2018: Optical and electronic activities of bio-based films of chitosan/POTE containing gold nanoparticles: Experimental and theoretical analyses
- 2018: Non-enzyme entrapping biohydrogels in catalysis
- 2018: Isomeric cationic ionenes as n-dopant agents of poly(3,4-ethylenedioxythiophene) for in situ gelation
- 2018: Cationic ionene as an n-dopant agent of poly(3,4-ethylenedioxythiophene).
- 2018: Release of small bioactive molecules from physical gels
- 2018: In situ preparation of film and hydrogel bio-nanocomposites of chitosan/fluorescein-copper with catalytic activity
- 2018: 3D printed polymeric hydrogels for nerve regeneration
- 2018: Urea activation by an external Brønsted acid: Breaking self-association and tuning catalytic performance
- 2018: Synthesis, characterization, and self-assembly of a tetrathiafulvalene (TTF)-triglycyl derivative
- 2018: Synthesis and supramolecular self-assembly of glutamic acid-based squaramides
- 2018: Isosteric substitution of 4H-1,2,4-triazole by 1H-1,2,3-triazole in isophthalic derivative enabled hydrogel formation for controlled drug delivery
- 2018: Cationic polymers bearing quaternary ammonium groups-catalyzed CO₂ fixation with epoxides
- 2018: Air-sensitive photoredox catalysis performed under aerobic conditions in gel networks
- 2018: Phenylalanine and derivatives as versatile low-molecular-weight gelators: design, structure and tailored function
- 2017: Glass-metal adhesive polymers from copper(I)-catalyzed azide-alkyne cycloaddition
- 2017: Transfection of antisense oligonucleotides mediated by cationic vesicles based on non-

ionic surfactant and polycations bearing quaternary ammonium moieties

- 2017: Antimicrobial and hemolytic studies of a series of polycations bearing quaternary ammonium moieties: Structural and topological effects
- 2017: Catalytic macroporous biohydrogels made of ferritin-encapsulated gold nanoparticles
- 2017: Ultrasonication-enhanced gelation properties of a versatile amphiphilic formamidine-based gelator exhibiting both organogelation and hydrogelation abilities
- 2017: An experimental and theoretical comparative study of the entrapment and release of dexamethasone from micellar and vesicular aggregates of PAMAM-PCL dendrimers
- 2017: Aromatic ionene topology and counterion-tuned gelation of acidic aqueous solutions
- 2017: Interplaying anions in a supramolecular metallohydrogel to form metal organic frameworks
- 2017: Boronic acid-modified alginate enables direct formation of injectable, self-healing and multistimuli-responsive hydrogels
- 2017: Cationic nioplexes-in-polysaccharide-based hydrogels as versatile biodegradable hybrid materials to deliver nucleic acids
- 2017: Paradigm shift for preparing versatile M^{2+} -free gels from unmodified sodium alginate
- 2017: Targeted drug delivery in covalent organic nanosheets (CONs) via sequential postsynthetic modification
- 2017: Protective coatings for aluminum alloy based on hyperbranched 1,4-polytriazoles
- 2016: Non-covalent incorporation of some substituted metal phthalocyanines into different gel networks and the effects on the gel properties
- 2016: Gadolinium(III)-based porous luminescent metal-organic frameworks for bimodal imaging
- 2016: Keratin protein-catalyzed nitroaldol (Henry) reaction and comparison with other biopolymers
- 2016: Fluoride anion recognition by a multifunctional urea derivative: An experimental and theoretical study
- 2016: Phase-transfer catalysis with ionene polymers
- 2016: Biodegradable liposome-encapsulated hydrogels for biomedical applications: a marriage of convenience
- 2016: Current status and challenges of biohydrogels for applications as supercapacitors and secondary batteries
- 2016: Metal-organic frameworks (MOFs) bring new life to hydrogen-bonding organocatalysts in confined spaces
- 2016: Nioplexes encapsulated in supramolecular hybrid biohydrogels as versatile delivery platforms for nucleic acids
- 2016: Regulatory parameters of self-healing alginate hydrogel networks prepared via mussel-inspired dynamic chemistry
- 2016: Self-assembled fibrillar networks of a multifaceted chiral squaramide: supramolecular multistimuli-responsive alcogels
- 2016: Supramolecular metallohydrogels with bulk self-healing properties prepared by in situ metal complexation
- 2016: Towards sustainable solid-state supercapacitors: electroactive conducting polymers combined with biohydrogels
- 2016: Spectroscopic characterization of azo dyes aggregation induced by DABCO-based ionene polymers and dye removal efficiency as a function of ionene structure
- 2016: Supramolecular metallohydrogel that imparts self-healing properties to other gel networks

- 2015: Supramolecular phase-selective gelation by peptides bearing side-chain azobenzenes: Effect of ultrasound and potential for dye removal and oil spill remediation
- 2015: DNA-catalyzed Henry reaction in pure water and the striking influence of organic buffer systems
- 2015: Chiral supramolecular nanoparticles: The study of chiral surface modification of silver nanoparticles by cysteine and its derivatives
- 2015: A DAC tartrate-based gelator system featuring markedly improved gelation properties: enhancing lifetime and functionality of gel networks
- 2015: Amide-triazole isosteric substitution for tuning self-assembly and incorporating new functions into soft supramolecular materials
- 2015: Evaluation of the nitroaldol reaction in the presence of metal ion-crosslinked alginates
- 2015: Non-invasive and continuous monitoring of the sol-gel phase transition of supramolecular gels using a fast (open-ended coaxial) microwave sensor
- 2015: Photophysical and photochemical processes in 3D self-assembled gels as confined microenvironments
- 2015: Transformation of rigid metal-organic frameworks into flexible gel networks and viceversa
- 2015: Intragel photoreduction of aryl halides by green-to-blue upconversion under aerobic conditions
- 2014: A covalent organic framework-cadmium sulfide hybrid as a prototype photocatalyst for visible-light-driven hydrogen production
- 2014: Synergistic computational-experimental approach to improve ionene polymer-based functional hydrogels
- 2014: Exploiting molecular self-assembly: From urea-based organocatalysts to multifunctional supramolecular gels
- 2014: Improved metal-adhesive polymers from copper(I)-catalyzed azide-alkyne cycloaddition
- 2014: Mechanical downsizing of a gadolinium(III)-based metal-organic framework for anticancer drug delivery
- 2014: α -Alkyl cysteine-coated gold nanoparticles: effect of C α -tetrasubstitution on colloidal stability
- 2014: Gelatin protein-mediated direct aldol reaction
- 2014: Amino acid-based multiresponsive low-molecular weight metallohydrogels with load-bearing and rapid self-healing abilities
- 2014: Dissolvable metallohydrogels for controlled release: evidence of a kinetic supramolecular gel phase intermediate
- 2014: Highly stable covalent organic framework-Au nanoparticles hybrids for enhanced activity for nitrophenol reduction
- 2014: Multifunctional and robust covalent organic framework-nanoparticle hybrids
- 2014: Homogeneous photochemical water oxidation by biuret-modified Fe-TAML: Evidence of Fe-V(O) intermediate
- 2014: Crossover experiments applied to network formation reactions: Improved strategies for counting elastically inactive molecular defects in PEG gels and hyperbranched polymers
- 2014: Investigation of C-C bond formation mediated by Bombyx mori silk fibroin materials

- 2013: Hydrolytic conversion of a metal-organic polyhedron into a metal-organic framework
- 2013: Proton-conducting supramolecular metallo gels from the lowest molecular weight assembler ligand: A quote for simplicity
- 2013: Multistimuli-responsive supramolecular organogels formed by low-molecular-weight peptides bearing side-chain azobenzene moieties
- 2013: C-C Bond formation catalyzed by natural gelatin and collagen proteins
- 2013: Organophotocatalysis in nanostructured soft gel materials as tunable reaction vessels: comparison with homogeneous and micellar solutions
- 2012: Crystal structure of (2S, 4R)-2-benzyl 1-tert-butyl 4-(tosyloxy)pyrrolidine-1,2-dicarboxylate, C₂₄H₂₉NO₇S
- 2012: Competition between gelation and crystallisation of a peculiar multicomponent liquid system based on ammonium salts
- 2012: Critical assessment of the efficiency of chitosan biohydrogel beads as recyclable and heterogeneous organocatalyst for C-C bond formation
- 2012: Fine-tuning the balance between crystallization and gelation and enhancement of CO₂ uptake on functionalized calcium based MOFs and metallo gels
- 2011: Stimuli-responsive gels as reaction vessels and reusable catalysts
- 2011: Tailoring drug release profile of low-molecular-weight hydrogels by supramolecular co-assembly and thiol-ene orthogonal coupling
- 2010: Fine-tuning the morphology of self-assembled nanostructures of propargylammonium-based amphiphiles
- 2009: Unsymmetrically functionalized phthalocyanines as versatile platforms for the preparation of molecular materials
- 2008: Strength enhancement of nanostructured organogels through inclusion of phthalocyanine-containing complementary organogelator structures and in situ cross-linking by click chemistry
- 2008: Polymer thermoreversible gels from organogelators enabled by 'click' chemistry
- 2008: Facile decoration of functionalized single-wall carbon nanotubes with phthalocyanines via "Click Chemistry"
- 2007: The Nicholas reaction: A powerful tool for the stereoselective synthesis of bioactive compounds
- 2007: Hunter's oligoamide: A functional C₂-symmetric molecule with unusual topology for selective organic gel formation
- 2007: Subphthalocyanines as narrow band red-light emitting materials
- 2007: Study of high glass transition temperature thermosets made from the copper(I)-catalyzed azide-alkyne cycloaddition reaction
- 2007: Physicochemical characterization of octakis(alkyloxy)-substituted Zn(II)-phthalocyanines non-covalently incorporated into an organogel and their remarkable morphological effect on the nanoscale-fibers
- 2007: Click chemistry in materials synthesis. III. Metal-adhesive polymers from Cu(I)-catalyzed azide-alkyne cycloaddition
- 2007: Ligand-accelerated Cu-catalyzed azide-alkyne cycloaddition: A mechanistic report

- 2006: Alkynyl-substituted phthalocyanines: versatile building blocks for molecular materials synthesis
 - 2006: [1,3]-Transfer of chirality during the Nicholas reaction in gamma-benzyloxy propargylic alcohols
 - 2006: Bis(formamidinium-urea) complexes of Ni(II) and Cu(II): Synthesis, characterization, and reactivity
 - 2006: First synthesis of symmetrical and unsymmetrical conjugated trinuclearphthalocyanines covalently linked by ethynyl bridges
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- 2006: 2,6-dichloro-9-thiabicyclo[3.3.1]nonane: Multigram display of azide and cyanide components on a versatile scaffold
 - 2006: Recent uses of iron (III) chloride in organic synthesis
 - 2006: Substituent effects on the gas-phase basicity of formamidinium ureas
 - 2006: Incorporation of 2,6-di(4,4'-dipyridyl)-9-thiabicyclo[3.3.1] nonane into discrete 2D supramolecules via coordination-driven self-assembly
 - 2006: Synthesis of degradable model networks via ATRP and click chemistry
 - 2006: "Click" chemistry in a supramolecular environment: Stabilization of organogels by copper(I)-catalyzed azide-alkyne [3+2] cycloaddition
 - 2005: Activation of urea as a leaving group in substitution reactions of formamidinium ureas
 - 2005: Acid-mediated highly regioselective oxidation of substituted furans: A simple and direct entry to substituted butenolides
 - 2005: Acid-mediated amine exchange of N,N-dimethylformamidines: Preparation of electron-rich formamidines
 - 2005: A facile synthesis of N,N'-bis[formamidinium]ureas and symmetrical N,N'-disubstituted formamidines
 - 2005: Fe(III) halides as effective catalysts in carbon-carbon bond formation: Synthesis of 1,5-dihalo-1,4-dienes, α,β -unsaturated ketones, and cyclic ethers
 - 2004: Modular synthesis of formamidines and their formation of stable organogels
 - 2004: Palladium-catalyzed homocoupling of arylboronic acids and esters using fluoride in aqueous solvents
 - 2004: Formamidinium ureas as tunable electrophiles
 - 2004: Expanded chemistry of formamidinium ureas
 - 2004: Click chemistry in materials synthesis. 1. Adhesive polymers from copper-catalyzed azide-alkyne cycloaddition
 - 2003: Stereocontrolled synthesis of 1-acetylen-2,3-di-O-benzyl-tetrahydrofurans, 1,4-anhydro-arabinitol, and α,β -dihydroxy- γ -alkyl-butyrolactones
 - 2003: First practical synthesis of formamidinium ureas and derivatives
 - 2003: Iron(III)-catalyzed Prins-type cyclization using homopropargylic alcohol: A method for the synthesis of 2-alkyl-4-halo-5,6-dihydro-2H-pyrans
 - 2002: Stereoselective synthesis of syn-2,7-disubstituted-4,5-oxepenes
 - 2001: Asymmetric synthesis of the (2S,4S,6S)-2,4,6-trimethylnonyl subunit of siphonarienes

- 2001: Measurement of enantiomeric excess of amines by mass spectrometry following kinetic resolution with solid-phase chiral acylating agents
- 2001: Stereocontrolled synthesis of unsaturated halohydrins from unsaturated epoxides
- 2001: Double cationic propargylation: from linear to polycyclic ether
- 2000: $\text{Co}_2(\text{CO})_8$ -Assisted synthesis of propargylic unsymmetrical ethers by reaction of alcohols with propargylic alcohols
- 2000: Enantioselective synthesis of alkyl-branched alkanes. Synthesis of the stereoisomers of 7,11-dimethylheptadecane and 7-methylheptadecane, components of the pheromone of *Lambdina* species
- 2000: Enantiocontrolled synthesis of trialkyl-substituted stereogenic carbons. A general route to cis-3,5-dialkyl γ -lactones
- 2000: Intramolecular propargylic reduction in γ -benzyl protected $\text{Co}_2(\text{CO})_{6-\alpha,\gamma}$ -acetylenic diols under Nicholas reaction conditions

CONGRESOS (Aportaciones del solicitante)

1. 2020: MIPOL2020
 - 2020: XXVIII RSEQ Biennial Meeting in Organic Chemistry
 - 2020: Virtual Symposium: System Chemistry – Nanoscience Initiative
 - 2019: 48th International Symposium on High-Performance Liquid Phase Separations and Related Techniques
 - 2019: XXXVII Reunión Bienal de la Real Sociedad Española de Química
- 2019: XV Congreso de Estudiantes de la Sección de Química 7. 2019: ANAKON 2019
 - 2018: XXI Simposio Nacional de Química Orgánica (XXI SINAQO)
 - 2018: 70th Southeastern Regional Meeting of the American Chemical Society
 - 2018: VI Brazil-Spain Workshop on Organic Chemistry (BSWOC 2018)
 - 2018: 3rd African Nano Conference/Workshop
 - 2018: 82nd PMM conference and the 24th Polymer Networks Group Meeting - Polymer Networks and Gels 2018
 - 2017: 5th CMS International Symposium on Photofunctional Chemistry and Molecular System
 - 2017: XXI Simposio Nacional de Química Orgánica
 - 2017: Sino-German Symposium on Space Biomaterials and Systems Chemistry
 - 2017: 254th ACS National Meeting & Exposition
 - 2016: 6th EuCheMS Chemistry Congress
 - 2016: 23rd Polymer Networks Group Conference
 - 2016: 5th INDIGO Research Conference
 - 2015: 1st iPUR Symposium
 - 2015: GDCh-Wissenschaftsforum Chemie, Chemie 2015
 - 2014: 22nd Polymer Networks Group Meeting & Gel Symposium and 2014
 - 2013: 4th INDIGO Research Conference
 - 2013: 18th European Symposium on Organic Chemistry (ESOC 2013)
 - 2013: 11st International Conference on Materials Chemistry (MC11)
 - 2012: 4th EuCheMS Chemistry Congress

- 2011: 16th International Sol-Gel Conference
- 2010: Colloquium "New Methods and Techniques in (Bio)conjugation"
- 2009: Bayreuth Polymer Symposium
- 2008: European Young Chemist Award, 2nd EuCheMS Chemistry Congress
- 2007: XVI Simposio Nacional de Química Orgánica de la SAIQO
- 2007: International Soft Matter Conference 2007
- 2007: IV Encuentro de Jóvenes Investigadores de Canarias y II Encuentro de Jóvenes Investigadores Biomédicos de la Macaronesia
- 2007: 41st IUPAC World Chemistry Congress
- 2006: XXVI Congreso Argentino de Química Dr. Ángel del Carmen Devia
- 2005: XV Simposio Nacional de Química Orgánica
- 2005: 55th Symposium on Organic Reactions
- 2005: 230th ACS National Meeting
- 2005: 229th ACS National Meeting
- 2005: Gordon Conference
- 2004: 228th ACS National Meeting
- 2004: Gordon Conference
- 2004: 227th ACS National Meeting

- 2003: Gordon Conference
- 2003: 12th IUPAC International Symposium on Organo-Metallic Chemistry (OMCOS-12)
- 2003: 3rd Spanish-Japanese Organic Chemistry Symposium
- 2002: IV Simposio Internacional Investigación Química en la Frontera
- 2001: XIII Simposio Nacional de Química Orgánica Dr. Eduardo Gros
- 2001: D12 Cost Meeting on Selective Organic Transformations
- 2000: Tercer Simposio Internacional Investigación Química en la Frontera
- 1999: 2nd Euroconference on Marine Natural Products
- 1999: XXVII Reunión Bienal de la Real Sociedad Española de Química

CONFERENCIAS Y SEMINARIOS (Aportaciones del solicitante)

- 2019: III Jornadas Juan Carlos Ruiz Morales
- 2019: COST Action 18125
- 2018: Jornadas universitarias y de puertas abiertas IPNA-CSIC
- 2018: Conferencia invitada Weizmann Institute of Science
- 2017: Conferencia invitada Instituto de Química Avanzada de Cataluña
- 2017: Conferencia invitada Georgia Institute of Technology
- 04/2015: Conferencia invitada L'Institut Charles Gerhardt Montpellier
- 03/2015: Conferencia invitada L'Institut Charles Gerhardt Montpellier
- 03/2015: Conferencia invitada L'Institut Charles Gerhardt Montpellier
- 2014: Conferencia invitada Instituto de Química Avanzada de Cataluña
- 2013: Conferencia invitada Instituto de Química Avanzada de Cataluña
- 2011: Conferencia invitada National Chemical Laboratory (NCL)
- 2003: VII Semana Científica "Antonio González"

- 2001: V Semana Científica “Antonio González”
- 1999: III Semana Científica “Antonio González”
- 1998: II Semana Científica “Antonio González”

PARTICIPACIÓN EN PROYECTOS DE INVESTIGACIÓN Y/O EN CONTRATOS DE INVESTIGACIÓN

- 2020-2023: Desarrollo de formulaciones a base de gel para catálisis redox basada en aniquilación triplete-triplete usando luz visible
 - 2018-2020: Understanding the influence of wet chemical treatment on electro-optical characteristics of epitaxially grown (III-V) compound semiconductor layers
 - 2017-2020: HIKS-Hochintegriertes Kathodengas System (Development and manufacturing of a highly integrated air treatment module for the use in automotive high performance PEFC)
 - 2016-2019: Dendrimer-based nanoaggregates for light harvesting, electron delivery and hydrogen production. A potential integrated nanodevice for artificial photosynthesis
 - 2016-2018: Gel-based materials as nanoreactors for catalytic processes and biomedical applications
 - 2013-2016: Gel-based materials as nanoreactors for catalytic processes
 - 2012-2014: Synthesis of novel chemical entities to map bioactivity in the chemical space synocemabics
 - 2006-2011: Design and function of self-assembled light-energy conversion devices for catalysis
 - 2010-2011: Sustainable functional gels with high thermo-resistance and mechanical strength enabled by ‘spring-loaded’ reactions
 - 2006-2010: Development of N-Type polymer materials used as alternative to soluble C60 derivatives and their use in organic solar cells (SOLAR n-TYPE)
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- 2006-2010: Materiales foto- y electroactivos para células solares orgánicas e híbridas (MadriSolar)
 - 2010: Desarrollo de una metodología sintética sostenible para la fabricación de geles funcionales altamente resistentes con aplicaciones biomédicas, catalítica y medioambientales.
 - 2005-2008: Nanocrystalline heterosupermolecular materials for optoelectronic applications (HETEROMOLMAT)
 - 2005-2008: Síntesis y organización de sistemas moleculares y polímeros funcionales basados en ftalocianinas con propiedades ópticas convencionales y no convencionales
 - 2006: Development of new molecular materials and functional polymers based on phthalocyanines derivatives
 - 1999-2002: Síntesis estereoselectiva de productos naturales y análogos con actividad biológica en sus formas enantioméricas
 - 1999-2001: Productos naturales y sintéticos con actividades anticancerígenas anticolesterolémicas, antileishmaniasis y como revertidores de multiresistencia a fármacos
 - 1996-1999: Desarrollo de nuevos procesos asistidos por metales para la síntesis asimétrica de sistemas cíclicos y acíclicos polisustituídos

OTROS MÉRITOS RELACIONADOS CON LA CALIDAD Y NÚMERO DE PROYECTOS Y CONTRATOS DE INVESTIGACIÓN

MIEMBRO DE REDES DE COOPERACIÓN

1. Nombre de la red: LACASAS INMOVILIZADAS PARA LA DEGRADACIÓN DE COMPUESTOS AROMÁTICOS EN AGUAS RESIDUALES - LIDA (Programa Iberoamericano de Ciencia y Tecnología para el Desarrollo CYTED)

ESTANCIAS EN CENTROS DE INVESTIGACIÓN

- 2006-2009: Dow Europe GmbH
- 2002-2005: The Scripps Research Institute
- 2000: The Scripps Research Institute
- 1997: Universidad Nacional de Córdoba
- 1996: Universidad Nacional del Comahue

OTROS MÉRITOS RELACIONADOS CON LA MOVILIDAD DEL PROFESORADO

ESTANCIAS BREVES DE MOVILIDAD INTERNACIONAL

- 2018: University of South Carolina
- 2018: Federal University of Agriculture
- 2017: Harvard - Massachusetts Institute of Technology (Harvard - MIT)
- 2017: Georgia Institute of Technology
- 2017: Kyushu University
- 2016: National Chemical Laboratory
- 2011: National Chemical Laboratory
- 2006: Mainz University

OTROS MÉRITOS RELACIONADOS CON LA ACTIVIDAD INVESTIGADORA

- Tramos de evaluación (sexenios) reconocidos por la CNEAI
- Componente por méritos investigadores del complemento específico (quinquenios) reconocidos por el CSIC

PREMIOS Y RECONOCIMIENTO NACIONALES E INTERNACIONALES

- BEATRIZ GALINDO SENIOR, NATIONAL AWARD (Distinguished Researcher at ULL). 2020
- ELECTED BOARD COMMITTEE. Polymer Networks Group. 2018
- AWARD OF EXCELLENCE UNIVERSITY OF NIGERIA, Nsukka. 2018
- HONORARY MEMBER. Sociedad Argentina de Investigación en Química Orgánica. 2017
- EXTENDED HEISENBERG PROFESSORSHIP AWARD. DFG, German Research Foundation. 2016
- YOUNG INVESTIGATOR AWARD. Polymer Networks and Gels. 2014
- HEISENBERG PROFESSORSHIP AWARD. DFG, German Research Foundation. 2013
- ACS APPRECIATION CERTIFICATE. American Chemical Society. 2012
- ALEXANDER VON HUMBOLDT AWARD FOR EXPERIENCED RESEARCHERS. Alexander von Humboldt Foundation. 2010
- LEARNING EXPERIENCE AWARD. Dow Chemical Company. 2008
- EUROPEAN YOUNG CHEMIST AWARD FINALIST. European Chemical Society EuCheMS. 2008
- PERFORMANCE AWARD. Dow Chemical Company. 2008
- RECOGNITION FOR CONTRIBUTION TO TS&D. Dow Chemical Company. 2008
- RECOGNITION FOR CONTRIBUTION TO RAP. Dow Chemical Company. 2007

- PREMIO JOVEN CANARIAS 2007. Gobierno de Canarias, Consejería de Empleo y Asuntos Sociales. 2007
- CRI AWARD, POLYURETHANES. Dow Chemical Company. 2007
- PREMIO POR RECONOCIMIENTO JÓVENES INVESTIGADORES EN EL EXTERIOR. Gobierno de Canarias, Consejería de Cultura. 2005
- PREMIO ACCÉSIT DE DIVULGACIÓN CIENTÍFICA TERESA PINILLOS. AITri - Asociación de Investigadores y Tecnólogos de La Rioja. 2005
- PREMIO EXTRAORDINARIO DE DOCTORADO. Universidad de La Laguna. 2003
- PREMIO A LA MEJOR TESIS DOCTORAL. Universidad de La Laguna. 2003
- PREMIO DÍA DE CANARIAS PARA JÓVENES INVESTIGADORES. Gobierno de Canarias, Consejería de Cultura. 2002

MIEMBRO DE CONSEJOS EDITORIALES

- Editor-Jefe de la revista GELS. Entidad editora: MDPI
- Editor de la Sección de Química de la revista THE ALL RESULTS JOURNALS. Entidad editora: Society for the Improvement of Science (SACSIS).
- Miembro del equipo editorial y asesor científico de la revista SCIENCEOPEN. Entidad editora: ScienceOpen.

REVISOR DE ACCIONES DE I+D+i

- Miembro del panel internacional de evaluación de las becas (Doctorado y Postdoc) de la FWO (RESEARCH FOUNDATION FLANDERS)
- Revisor de proyectos de la ADMINISTRACIÓN NACIONAL DE EDUCACIÓN PÚBLICA
- Revisor de proyectos del MINISTERIO DE CIENCIA E INNOVACIÓN
- Revisor de proyectos del MINISTRY OF EDUCATION, RESEARCH, YOUTH AND SPORT OF ROMANIA
- Revisor de proyectos de ISRAEL MINISTRY OF SCIENCE AND TECHNOLOGY
- Revisor de proyectos de DFG (Alemania)
- Revisor de proyectos de ACS-PRF (PETROLEUM RESEARCH FOUNDATION)
- Revisor de proyectos de FONCyT-ANPCyT (Argentina) REVISOR DE REVISTAS CIENTÍFICAS CON MÉTRICAS EN JCR – SCIE
 - Título de la revista: CHEMICAL SOCIETY REVIEWS
 - Título de la revista: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
 - Título de la revista: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION
 - Título de la revista: JOURNAL OF MATERIALS CHEMISTRY A
 - Título de la revista: CHEMISTRY OF MATERIALS
 - Título de la revista: GREEN CHEMISTRY
 - Título de la revista: ACS SUSTAINABLE CHEMISTRY & ENGINEERING
 - Título de la revista: ACTA BIOMATERIALIA
 - Título de la revista: JOURNAL OF MATERIALS CHEMISTRY
 - Título de la revista: CHEMICAL COMMUNICATIONS
 - Título de la revista: BIOMACROMOLECULES
 - Título de la revista: JOURNAL OF MATERIALS CHEMISTRY B
 - Título de la revista: POLYMER CHEMISTRY
 - Título de la revista: MOLECULAR PHARMACEUTICS

- Título de la revista: CRYSTAL GROWTH & DESIGN
- Título de la revista: CHEMISTRYSELECT
- Título de la revista: ORGANIC & BIOMOLECULAR CHEMISTRY
- Título de la revista: SOFT MATTER
- Título de la revista: ACS COMBINATORIAL SCIENCE
- Título de la revista: LANGMUIR
- Título de la revista: CATALYSIS COMMUNICATIONS
- Título de la revista: ADVANCED FUNCTIONAL MATERIALS
- Título de la revista: RSC ADVANCES
- Título de la revista: ChemPhysChem
- Título de la revista: ACS OMEGA
- Título de la revista: POLYMER INTERNATIONAL
- Título de la revista: PHOTOCHEMISTRY AND PHOTOBIOLOGY
- Título de la revista: COLLOID AND INTERFACE SCIENCE
- Título de la revista: JOURNAL OF PORPHYRINS AND PHTHALOCYANINES

MIEMBRO DE SOCIEDADES CIENTÍFICAS

- German Chemical Society
- Real Sociedad Española de Química
- Swiss Society for Biomaterials
- The American Chemical Society
- The Royal Society of Chemistry

- ACTIVIDAD DOCENTE -

PUESTOS DOCENTES OCUPADOS

PROFESOR HONORARIO DE UNIVERSIDADES INTERNACIONALES

- HONORARY PROFESSORSHIP. University of Nigeria
- HONORARY PROFESSORSHIP. University of Jiangsu

DOCENCIA OFICIAL UNIVERSITARIA IMPARTIDA QUE NO CONSTA EN LOS CERTIFICADOS P.O.D.

- Prácticas de Laboratorio. Universidad Autónoma de Madrid
- Teórica presencial. Universidad de La Laguna

5. Resto de documentación acreditativa de la Docencia impartida en la Universidad Autónoma de Madrid (Ramón y Cajal), Universität Regensburg, Universidad de La Laguna incluido en el aplicativo ACADEMIA

DIRECCIÓN DE TESIS DOCTORALES

- Understanding the influence of wet chemical treatment on electro-optical characteristics of epitaxially grown (III-V) compound semiconductor layers. Doctorando/a: Markus Tautz
- Synthesis and characterization of chemical and physical gels for high-tech applications. Doctorando/a: Marleen Häring

- Synthesis, characterization and application of smart materials based on low-molecular-weight compounds and polymers. Doctorando/a: Judith Mayr
- Engineering new supramolecular gels: From catalysis to drug delivery. Doctorando/a: Jürgen Bachl
- Investigation of biopolymer-based hydrogels as green and heterogeneous catalysts in C-C bond formation. Doctorando/a: Dennis Kühbeck
- Preparation, characterization and potential application of new low-molecular-weight organogels. Doctorando/a: Eva-Maria Schön

DIRECCIÓN DE TRABAJOS AVANZADOS

- Certificados de dirección de Tesis de Licenciatura (BSc) en la Universität Regensburg
- Certificados de dirección de Tesis de Master (MSc) en la Universität Regensburg
- Certificados de dirección de Trabajos Fin de Grado (TFG) en la Universidad de La Laguna

OTROS MÉRITOS RELACIONADOS CON LA ACTIVIDAD DOCENTE

COORDINADOR DE ASIGNATURA

- Coordinador de la asignatura obligatoria: CIENCIAS DE LOS MATERIALES curso 2020/21

FORMACIÓN DE INVESTIGADORES DEL PROGRAMA ESTATAL "JUAN DE LA CIERVA"

- 2018: Candidato: María José Trujillo Rodríguez.
- 2019: Candidato: Sebastian Bonardd Salvador.

CONFERENCIAS INVITADAS EN UNIVERSIDADES INTERNACIONALES

- Engineering nanoreactors. Pontificia Universidad Católica de Chile. 2019
- Physical gels as reaction vessels. Department of Chemistry, University of Milan. 2019
- Physical gels as reaction vessels. Department of Organic Chemistry, University of Bologna. 2019
- Air-sensitive photoredox catalysis performed under aerobic conditions in gel networks. University of South Carolina. 2018
- Self-assembled gels as nanoreactors for photoredox catalysis in air. Università di Roma Tor Vergata. 2018
- Gels as confined microenvironments to perform air-sensitive photoredox catalysis under aerobic conditions. University of Nigeria. 2018
- Multifunctional materials: From adhesives to nanostructured gels, Federal University of Agriculture, Abeokuta, Nigeria. 2018
- Gels as confined microenvironments to perform air-sensitive photoredox catalysis in air. Universidad de Rosario. 2018
- Gels as confined microenvironments to perform air-sensitive photoredox catalysis under aerobic conditions. Pontificia Universidad Católica de Chile. 2018
- Gel networks as reaction media: Performing air-sensitive photoredox catalysis under aerobic conditions. University of Montpellier, ICGM MACS, ED. 2018
- Gels as confined microenvironments to perform air-sensitive photoredox catalysis under aerobic conditions. Universidad de Buenos Aires. 2017
- Gel networks as reaction media: performing air-sensitive photoredox catalysis under aerobic conditions. Jiangsu University. 2017

- Gel networks as confined microenvironments for photochemical reactions under mild conditions. Kyushu University. 2017
- Two examples of simplicity and robustness: Metal adhesive polymers and intragel reactivity. Johannes Kepler University Linz, Institute of Organic Chemistry. 2016
- Two examples of simplicity and robustness: Metal adhesive polymers and intragel reactivity. University of Paderborn, Department of Chemistry. 2016
- Two examples of simplicity and robustness: Metal adhesive polymers and intragel reactivity. Indian Institute of Science Education and Research (IISER). 2016
- From polymeric adhesives to softgel nanoreactors. University of Stuttgart, Institute of Physical Chemistry. 2016
- Hard, soft and in between (KISSU principle in materials synthesis). Universidad Católica de Chile. 2015
- Expanding the conceptual toolbox for the synthesis of new functional gels. Freie Universität Berlin, Institute of Chemistry and Biochemistry. 2015
- Hard, soft and in between (KISSU principle in materials synthesis). Ulm University, Institute of Organic Chemistry and Advanced Materials, Department of Organic Chemistry. 2015
- Metal adhesives from copper-catalysed azide-alkyne cycloaddition. Ecole Doctorale – UM FdS. 2015
- Synthesis of multitimuli-responsive functional soft materials. Università de Firenze, Department of Organic Chemistry. 2015
- Stimuli-responsive multifunctional materials. Fakultät für Chemie und Pharmazie, Universität Regensburg. 2014
- Click chemistry in polymer sciences, Universität Regensburg. 2010
- Sustainable and bio-inspired functional materials. Entidad organizadora: Freiburg University, Freiburg Instituted for Advanced Studies (FRIAS), School of Soft Matter. 2008
- Click chemistry: A versatile tool for organic synthesis, materials science, and medicinal chemistry. Department of Chemistry, University of Konstanz. 2008
- 1,3-Dipolar cycloaddition of azides and alkynes: Versatility and control for organic synthesis, materials engineering and drug discovery. Institut für Organische Chemie, Universität Regensburg. 2008
- Click chemistry: A modular approach for organic synthesis, materials science, and molecular biology. Université de Neuchâtel. 2008
- Cu(I)-catalyzed 1,3-dipolar cycloaddition of azides and alkynes: A versatile tool for organic synthesis, materials science, and molecular biology. Universität Ulm. 2006
- Nuevos avances en la química de los complejos de acetilenos con $\text{Co}_2(\text{CO})_8$ desde éteres lineales hasta éteres cíclicos polifuncionalizados. Universidad Nacional de San Luis. 2001

CONFERENCIAS INVITADAS EN UNIVERSIDADES NACIONALES

- Impartición taller para alumnado de altas capacidades. Universidad de La Laguna. 2019
- Self-assembled gels as nanoreactors for photoredox catalysis. Universidad de Salamanca (charla de apertura del máster en Química Supramolecular). 2018
- Air-sensitive photoredox catalysis performed under aerobic conditions in gel networks. Entidad organizadora: ISQCH, CSIC-Universidad de Zaragoza. 2018
- Self-assembled gels as nanoreactors for photoredox catalysis in air. Universidad Jaume I. 2018

- Self-assembled gels as nanoreactors for photoredox catalysis in air. Universidad Autónoma de Barcelona. 2018
- Self-assembled gels as nanoreactors for photoredox catalysis. Universidad de Huelva, CIQSO and Departamento de Química. 2018
- Gel networks as reaction media: Performing air-sensitive photoredox catalysis under aerobic conditions. Instituto de Investigaciones Químicas, CSIC-Universidad de Sevilla. 2018
- Air-sensitive photoredox catalysis performed under aerobic conditions in gel networks. Universidad de Santiago de Compostela, CIQUS. 2018
- Gel networks as reaction media: Performing air-sensitive photoredox catalysis under aerobic conditions. Universidad Autónoma de Madrid. 2017
- Gel networks as confined microenvironments for photochemical reactions under mild conditions. Instituto Universitario de Bio-Orgánica "Antonio González", Universidad de La Laguna. 2017
- Amidines, virus and polymers. Instituto Universitario de Bio-Orgánica "Antonio González", Universidad de La Laguna. 2015
- Cu(I)-catalyzed 1,3-dipolar cycloaddition of azides and alkynes: A versatile tool for materials science. Universidad Autónoma de Madrid. 2006

CURSOS Y SEMINARIOS IMPARTIDOS EN UNIVERSIDADES

- Curso de Doctorado en Química Industrial. Título: Photophysical and photochemical processes in 3D self-assembled gels as confined microenvironments. Università degli Studi di Milano. 2020
- Seminario. Título: From Synthetic Organic Chemistry to Advanced Multifunctional Materials. Departamento de Química Orgánica, Universidad de La Laguna. 2019
- Curso de Posgrado. Título: Physical gels: Synthesis, properties and applications. Pontificia Universidad Católica de Chile. 2019
- Seminario. Título: Use and capabilities of ChemDraw. Departamento de Analítica, Universidad de La Laguna. 2019
- Jornada. Título: Nuevos Materiales y sus aplicaciones: El futuro es hoy. Universidad de La Laguna. 2019
- Seminario. Título: Síntesis de formamidas derivadas de ureas. Programa de Maestría y Doctorado en ciencias Químicas del Instituto Tecnológico Tijuana-México. 2003

DIRECCIÓN DE TRABAJOS DE TESIS DE LICENCIATURA EN LA UNIVERSITÄT REGENSBURG (Alemania)

- Título del trabajo: Synthesis of 2+2 cycloaddition based polymers. Alumno/a: Denis Genze. Fecha de defensa: 31/03/2020
- Título del trabajo: Synthesis of low molecular weight gelators. Alumno/a: Bastian Mader. Fecha de defensa: 31/03/2020
- Título del trabajo: Study of the Baylis-Hillman reaction in ionogels made by low molecular weight gelators. Alumno/a: Stephan Reger. Fecha de defensa: 23/09/2011
- Título del trabajo: Effects of non-covalent inclusion of phthalocyanines on the properties of low and high molecular weight gels. Alumno/a: Pia-Regina Keseberg Smith. Fecha de defensa: 05/07/2011
- Título del trabajo: Gelation properties of Phe-Phe dipeptide derivatives (II). Alumno/a: Anika Kolb. Fecha de defensa: 05/07/2011
- Título del trabajo: Synthesis, characterization and evaluation of different surfactant free, ionic polymer isomers, forming hydrogels. Alumno/a: Judith Mayr. Fecha de defensa: 05/07/2011

- Título del trabajo: Alginate-metal hydrogel beads as heterogeneous catalysts. Alumno/a: Martin Hofmann. Fecha de defensa: 21/06/2011
- Título del trabajo: Gelation properties of Phe-Phe dipeptide derivatives (I). Alumno/a: Stefanie Jager. Fecha de defensa: 21/06/2011

DIRECCIÓN DE TRABAJOS FIN DE GRADO EN LA UNIVERSIDAD DE LA LAGUNA

- Título del trabajo: Materiales basados en geles versus redes metal-orgánicas en técnicas de microextracción.

MIEMBRO DE TRIBUNALES EVALUADORES DE TESIS DOCTORALES EN UNIVERSIDADES INTERNACIONALES

- Miembro de tribunales en la UNIVERSITÄT REGENSBURG
- Miembro de tribunales en la INDIAN INSTITUTE OF TECHNOLOGY INDORE
- Miembro de tribunales en la INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
- Miembro de tribunales en la INDIAN INSTITUTE OF TECHNOLOGY MADRAS
- Miembro de tribunales en la NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA
- Miembro de tribunales en la KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY
- Miembro de tribunales en la UNIVERSITY OF PUNE
- Miembro de tribunales en la INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH KOLKATA

MIEMBRO DE TRIBUNALES EVALUADORES DE TESIS DOCTORALES EN UNIVERSIDADES NACIONALES

- Miembro de tribunales en la Universidad Politécnica de Valencia
- Miembro de tribunales en la Universidad de Zaragoza
- Miembro de tribunales en la Universidad Autónoma de Madrid
- Miembro de tribunales en la Universidad de Oviedo

MIEMBRO DE TRIBUNAL CORRECTOR DE LA EBAU

- Convocatoria ordinaria julio 2020

EVALUACIONES POSITIVAS DE SU ACTIVIDAD

- Descripción: HABILITATION (*venia legendi*). Entidad acreditante: Universität Regensburg
- Descripción: ACREDITACIÓN como Profesor Titular. Entidad acreditante: ANECA
- Encuesta docente y carta de la Universität Regensburg incluido en e aplicativo ACADEMIA

MATERIAL DOCENTE ORIGINAL Y PUBLICACIONES DOCENTES

- 2020: Development of anion exchange membranes via click chemistry. En: Porous Membranes: Breakthroughs in Manufacturing and Applications Wiley-Scrivener 978-1119407034
- 2020: Self-healing collagen-based hydrogel for brain injury therapy. En: Advances in Polymer Science Springer Nature 978-3-540-04032-3
- 2019: Liposomes-in-chitosan hydrogels. Challenges and opportunities for biomedical applications. En: Materials Science and Technology Wiley 9783527313952
- 2019: Photocatalytic active polymers in organic synthesis. En: Smart Polymer Catalysts and Tunable Catalysis Elsevier 9780128118405
- 2014: Photo-responsive hydrogels for adaptive membranes. En: Smart Membranes and Sensors. Synthesis, Characterization and Applications Scrivener Publishing LLC - ... 978-1-119-02864-2

- 2010: Click Chemistry: a quote for function. En: Ideas in Chemistry and Molecular Sciences: Advances in Nanotechnology, Materials and Devices Wiley 978-3-527-32543-6

PROYECTOS DE INNOVACIÓN DOCENTE

1. Implementación y evaluación de un curso de química orgánica invertido

OTROS MÉRITOS RELACIONADOS CON LA CALIDAD DE LA ACTIVIDAD

MIEMBRO DE COMISIONES DE GESTIÓN DOCENTE DE TITULACIONES EN LA UNIVERSITÄT REGENSBURG

- Título del comité: MASTER UNIVERSITARIO “SYNCAT: MSC ADVANCED SYNTHESIS AND CATALYSIS”
- Título del comité: PROGRAMA DE DOCTORADO INTERNACIONAL “IPUR”

TUTORÍAS ACADÉMICAS DE ESTUDIANTES EN LA UNIVERSITÄT REGENSBURG

- Nombre del programa: DOCTORADO/A
- Nombre del programa: FORMACIÓN PERSONAL DOCENTE
- Nombre del programa: MEJORA RENDIMIENTO
- Dirección de prácticas de investigación en la Universität Regensburg (Research Internship)
- Dirección de proyectos de pasantía en la Universität Regensburg

ESTANCIAS EN CENTROS DOCENTES

- 2018: École Nationale Supérieure de Chimie de Montpellier
- 2016: Institut Charles Gerhardt - Matériaux Avancés pour la Catalyse et la Santé
- 2015: Università degli Studi di Firenze
- 2015: Pôle Chimie Balard
- 1996: Universidad Nacional del Comahue

OTROS MÉRITOS RELACIONADOS CON LA CALIDAD DE LA FORMACIÓN DOCENTE

1. Título de la formación: Curso de Adaptación Pedagógica (CAP)

- TRANSFERENCIA DEL CONOCIMIENTO Y EXPERIENCIA -

PATENTES Y PRODUCTOS CON REGISTRO DE PROPIEDAD INTELECTUAL

- Stabilization of organogels and hydrogels by copper(I)-catalyzed azide-alkyne [3+2] cycloaddition
- Uso de una composición acuosa como adhesivo

TRANSFERENCIA DE CONOCIMIENTO AL SECTOR PRODUCTIVO

PROMOTOR DE ACTIVIDAD EMPRESARIAL DE TRANSFERENCIA

- Promotor Spin-Off: ALISIO CHEMICAL TECHNOLOGIES SL

ELABORACIÓN DE INFORMES CIENTÍFICO-TÉCNICOS

- Título: HIGHLY PU THERMORESISTANT FOR PIPE APPLICATIONS. Central Report Index. The Dow Chemical Company. 2008
- Título: SUPERHYDROPHOBIC COATINGS: A REVIEW. Central Report Index. The Dow Chemical Company. 2008

- Título: SUPERHYDROPHOBIC LATEX-BASED COATINGS FOR PAPER. Central Report Index. TheDow Chemical Company. 2008
- Título: EO-BASED SURFACTANT FORMULATIONS. Central Report Index. The Dow ChemicalCompany. 2007
- Título: MICROWAVE SENSOR FOR IN SITU PU QUALITY CONTROL. Central Report Index. TheDow Chemical Company. 2007
- Título: CHEMISTRY: ORGANIC, MATERIALS AND ANALYTICAL CHEMISTRY. TSRI Report. 2005
- Título: CHEMISTRY: ORGANIC, MATERIALS AND ANALYTICAL CHEMISTRY. TSRI Report. 2004
- Título: CHEMISTRY: ORGANIC, MATERIALS AND ANALYTICAL CHEMISTRY. TSRI Report. 2003
- Título: CHEMISTRY: ORGANIC, MATERIALS AND ANALYTICAL CHEMISTRY. TSRI Report. 2001

OTROS MÉRITOS RELACIONADOS CON LA CALIDAD DE LA TRANSFERENCIA DE LOS RESULTADOS

ACTIVIDADES DE DIVULGACIÓN CIENTÍFICA

- Entrevista Universidad de La Laguna sobre la plaza Beatriz Galindo. 2020
- Nanotechnology in LED lighting. Nombre del evento: Semana Científica. IES Pureza de María.2020
- Nanotechnology in LED lighting. Tipo de evento: Semana de la Ciencia y la Nanotecnología delCSIC, Conferencia para alumnos de ESO y Bachillerato. IPNA-CSIC. 2019
- How did I become a scientist? IES San Nicolás. 2019
- How did I become a scientist? Colegio La Pureza de María. 2019
- My Career Pathway: From Synthetic Organic Chemistry to Advanced Multifunctional Materials.IPNA-CSIC. 2018
- Entrevista por Televisión Argentina durante el XXI Simposio Nacional de Química Orgánica.2017
- Entrevista por el programa “Galaxias y Centellas”. 2011
- I Certamen de Divulgación Científica “Antonio González”. Instituto de Bio-orgánica AntonioGonzález. 2010
- El ketchup y la regeneración cardíaca coinciden en la química. Periódico La Opinión. 2009
- Entrevista por Televisión Canaria. 2007
- Entrevista por Jason Socrates Bardi. The Scripps Research Institute. 2005
- Los geles: una maravilla de la ciencia al servicio de la sociedad. Nombre del evento: II Certamen Teresa Pinillos de ensayos de divulgación científica. Universidad de La Rioja. 2005

PUESTOS OCUPADOS Y DEDICACIÓN

1. Informe de Vida Laboral de la Seguridad Social