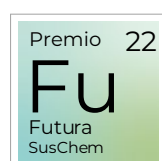


# LISTADO DE CANDIDATOS

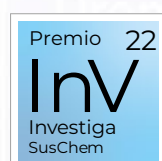
Este listado incluye los datos de los candidatos elegibles que se han presentado a la XIV Edición de los Premios SusChem Jóvenes Investigadores Químicos y que han dado su conformidad a figurar en un listado público.



## Categoría FUTURA

Premio al **mejor expediente académico** de grado de química o cualquier otro relacionado con la ciencia y las tecnologías químicas y cuyo título se hubiera obtenido en 2021.

1. **Amaia Agullero Beraza** - Graduada en Química por la Universidad de Santiago de Compostela
2. **Armando Albert Flores** - Graduada en Química por la Universidad Autónoma de Madrid
3. **Fernando de Argüelles Pérez** - Graduada en Ingeniería Química Industrial por la Universidad de Oviedo
4. **Seguismundo García Valverde** - Graduada en Química por la Universidad Complutense de Madrid
5. **Helena Gayet Mas** - Graduada en Química por la Universitat Ramón Llull
6. **Gloria González Lavín** - Graduada en Ingeniería Química por la Universidad de Cantabria
7. **Juan Carlos Pérez Sánchez** - Graduada en Química por la Universidad de Zaragoza
8. **Alejandra Pita Milleiro** - Graduada en Química por la Universidad de Sevilla
9. **Teresa Sempere Díaz** - Graduada en Ingeniería Química por la Universitat de Valencia
10. **Alicia Trigeros Sáncho** - Graduada en Química por la Universidad de Alicante
11. **Lara Troncoso Alfonso** - Graduada en Química por la Universidad de Santiago de Compostela
12. **Andrea Uroz Santos** - Graduada en Química por la Universidad Autónoma de Madrid
13. **David Vázquez García** - Graduada en Química por la Universidade da Coruña



## Categoría INVESTIGA

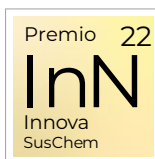
Premio al **autor de la mejor publicación científica**, con número de página de 2021, en cualquier área de la química, y que estuviera en posesión del título de doctor a 31 de diciembre de 2021.

1. **Laura Abad Galán** - Design of an polyazamacrocyclic Gd<sup>3+</sup> theranostic agents combining magnetic resonance imaging and two-photon photodynamic therapy (Inorganic Chemistry Frontiers)
2. **Jonathan Albo Sánchez** - Use of an optofluidic microreactor and Cu nanoparticles synthesized in ionic liquid and embedded in TiO<sub>2</sub> for an efficient photoreduction of CO<sub>2</sub> to methanol (Chemical Engineering Journal)
3. **Elena Álvarez González** - Electrochemical Oscillatory Baffled Reactors Fabricated with Additive Manufacturing for Efficient Continuous-Flow Oxidations (ACS Sustainable Chemistry and Engineering)
4. **María del Mar Arce Antón** - A new approach based on inversion of a partial least squares model searching for a preset analytical target profile. Application to the determination of five bisphenols by liquid chromatography with diode array detector (Analytica Chimica Acta)
5. **Matías Blanco Fernández** - Hybridization of Molecular and Graphene Materials for CO<sub>2</sub> Photocatalytic Reduction with Selectivity Control (Journal of American Chemical Society)

6. **Iván Carrillo Berdugo** - Optical and Transport Properties of Metal-Oil Nanofluids for Thermal Solar Industry: Experimental Characterization, Performance Assessment, and Molecular Dynamics Insights (ACS Sustainable Chemistry and Engineering)
7. **María Celeiro Montero** - Hazardous compounds in recreational and urban recycled surfaces made from crumb rubber. Compliance with current regulation and future perspectives (Science of the Total Environment)
8. **Àlex Cristòfol Martínez** - Expedient Dual Co/Organophotoredox Catalyzed Stereoselective Synthesis of All-Carbon Quaternary Centers (Angewandte Chemie International Edition)
9. **Cristián Cuerva de Alaíz** - Water-soluble hollow nanocrystals from self-assembly of AIEE-active Pt(II) metallomesogens (Nano Research)
10. **Ana Díaz Fernández** - Impedimetric aptamer-based glycan PSA score for discrimination of prostate cancer from other prostate diseases (Biosensors and Bioelectronics)
11. **Aida María Díez Sarabia** - ZnFe<sub>2</sub>O<sub>4</sub>-chitosan magnetic beads for the removal of chlordimeform by photo-Fenton process under UVC irradiation (2021) (Journal of Environmental Management)
12. **Lucía dos Santos Gómez** - Ultralight-Weight Graphene Aerogels with Extremely High Electrical Conductivity (Small)
13. **Zulema Fernández Villar** - Merging Supramolecular and Covalent Helical Polymers: Four Helices Within a Single Scaffold (Journal of the American Chemical Society (JACS))
14. **Borja Ferrández Gómez** - Feasibility of electrochemical regeneration of activated carbon used in drinking water treatment plant. Reactor configuration design at a pilot scale (Process Safety and Environmental Protection)
15. **Ignacio Funes Ardoiz** - Accelerated dinuclear palladium catalyst identification through unsupervised machine learning (Science)
16. **Alicia L. García Costa** - Cutting oil-water emulsion wastewater treatment by microwave assisted catalytic wet peroxide oxidation (Separation and Purification Technology)
17. **Ana María García Fernández** - Nanoscale Assembly of Functional Peptides with Divergent Programming Elements (ACS Nano)
18. **Juan José García Guzmán** - Toward In Vivo Transdermal pH Sensing with a Validated Microneedle Membrane Electrode (ACS Sensors)
19. **Alejandro González Benjumea** - Regioselective and Stereoselective Epoxidation of n-3 and n-6 Fatty Acids by Fungal Peroxygenases (Antioxidants)
20. **Olalla González Sas** - Removal of phenolic pollutants from wastewater streams using ionic liquids (Separation and Purification Technology)
21. **Silvia Gutiérrez Tarrío** - Cobalt nanoclusters coated with N-doped carbon for chemoselective nitroarene hydrogenation and tandem reactions in water (Green Chemistry)
22. **Guiomar Hernández Gutiérrez** - Going Beyond Sweep Voltammetry: Alternative Approaches in Search of the Elusive Electrochemical Stability of Polymer Electrolytes (Journal of The Electrochemical Society)
23. **Daniel Iglesias Asperilla** - Light-Programmable Logic-in-Memory in 2D Semiconductors Enabled by Supramolecular Functionalization: Photoresponsive Collective Effect of Aligned Molecular Dipoles (ACS Nano)
24. **Ana María Jiménez Carvelo** - Chromatographic fingerprinting by comprehensive two-dimensional chromatography: Fundamentals and tools (Trends in Analytical Chemistry)
25. **Shin-Ho Kim Lee** - Dynamic multiligand catalysis: A polar to radical crossover strategy expands alkyne carboboration to unactivated secondary alkyl halides (Chem)
26. **Alejandro Leal Duaso** - Design of Glycerol-based solvents for the immobilization of palladium nanocatalysts: a hydrogenation study (ACS Sustainable Chemistry and Engineering)
27. **Rosalía López Ruiz** - A laboratory study on dissipation and risk assessment of the proinsecticide thiocyclam and its metabolite nereistoxin in tomato using liquid chromatography high resolution mass spectrometry (Food Chemistry)
28. **Laura Megido Fernández** - Impact of organic loading rate and reactor design on thermophilic anaerobic digestion of mixed supermarket waste (Waste Management)
29. **Iván Merino García** - Continuous electroconversion of CO<sub>2</sub> into formate using 2 nm tin oxide nanoparticles (Applied Catalysis B: Environmental)

30. **Ángel Morales García** - Understanding the nature and location of hydroxyl groups on hydrated titania nanoparticles (Nanoscale)
31. **Carlos Moreno Cruz** - Chiral Distorted Hexa-peri-hexabenzocoronenes Bearing a Nonagon-Embedded Carbohelicene (Angewandte Chemie International Edition)
32. **Paula Munín Cruz** - In Vitro and In Vivo Effect of Palladacycles: Targeting A2780 Ovarian Carcinoma Cells and Modulation of Angiogenesis (Inorganic Chemistry)
33. **Judit Oliver Meseguer** - Regioirregular and catalytic Mizoroki–Heck reactions (Nature Catalysis)
34. **Mónica Palomino Vasco** - Monitoring winemaking process using tyrosine influence in the excitation-emission matrices of wine (Food Chemistry)
35. **Manuel Plaza Martínez** - Photochemical Deracemization at  $sp^3$ -Hybridized Carbon Centers via a Reversible Hydrogen Atom Transfer (Journal of the American Chemical Society)
36. **María Teresa Quirós López** - On the mechanism of the formation of alkyl-Ni(II) catalysts (Chemical Communications)
37. **Javier Ramos Soriano** - A vibration-induced-emission-based fluorescent chemosensor for the selective and visual recognition of glucose (Angew. Chem. Int. Ed.)
38. **Pablo Ríos Moreno** - Reversible carbon–boron bond formation at platinum centers through s–BH complexes (Chemical Science)
39. **Jessica Rodríguez Villar** - Nucleophilic Addition to p-Allyl Gold(III) Complexes: Evidence for Direct and Undirect Paths (J. Am. Chem. Soc.)
40. **Cristina Román Hidalgo** - Chitosan biofilms: Insights for the selective electromembrane extraction of fluoroquinolones from biological samples (Analytica Chimica Acta)
41. **Noelia Rubio Carrero** - Effect of graphene flake size on functionalisation: quantifying reaction extent and imaging locus with single Pt atom tags (Chemical Science)
42. **Beatriz Saavedra Guillem** - Natural eutectogels: sustainable catalytic systems for C–C bond formation reactions (Green Chemistry)
43. **Joel Sánchez Piñero** - Inhalation bioaccessibility estimation of polycyclic aromatic hydrocarbons from atmospheric particulate matter (PM10): Influence of PM10 composition and health risk assessment (Chemosphere)
44. **Haritz Sardon Muguruza** - Selective Chemical Upcycling of Mixed Plastics Guided by a Thermally Stable Organocatalyst (Angew Chem Int Ed Engl)
45. **Iván Torres** - Mechanical Processing of Naturally Bent Organic Crystalline Microoptical Waveguides and Junctions (Small)
46. **Ramón Torres Cavanillas** - Spin-crossover nanoparticles anchored on MoS<sub>2</sub> layers for heterostructures with tunable strain driven by thermal or light-induced spin switching (Nature chemistry)
47. **Ester Trigueros Andrés** - Kinetic study of the semi-continuous extraction/hydrolysis of the protein and polysaccharide fraction of the industrial solid residue from red macroalgae by subcritical water (Journal of Environmental Chemical Engineering)
48. **Saul Vallejos Calzada** - Direct visual detection and quantification of mercury in fresh fish meat using facilely prepared polymeric sensory labels (Journal of Materials Chemistry A)
49. **Lucía Valverde Som** - Determination of polymer additive residues that migrate from coffee capsules by means of stir bar sorptive extraction-gas chromatography-mass spectrometry and PARAFAC decomposition (Food Packaging and Shelf Life)
50. **Xanel Vecino Bello** - Valorisation options for Zn and Cu recovery from metal influenced acid mine waters through selective precipitation and ion-exchange processes: promotion of on-site/off-site management options (Journal of Environmental Management)





## Categoría INNOVA

Premio al **mejor trabajo desarrollado** a partir de una **colaboración público-privada**. El trabajo presentado debe haber generado resultados en los tres últimos años en cualquier área relacionada con la Química Sostenible, incluidos trabajos sobre la transición hacia la Economía Circular y la Descarbonización.

1. **Víctor Arniella Guzman** - Investigación de las capacidades adsorbentes de diferentes subproductos siderúrgicos con el grado y forma de envejecimiento. Universidad de Oviedo en colaboración con Arcelor Mittal.
2. **Matías Blanco Fernández** - Selective and scaled-up continuous flow synthesis of manganese oxide nanocatalysts for single electron transfer reactions. Universidad Autónoma de Madrid en colaboración con Particular Material s.r.l..
3. **Guiomar Hernández Gutiérrez** - Perspective - A League of Our Own: A Perspective on How to Start and Keep the Flow of Women in Energy Storage. Universidad de Uppsala en colaboración con Morrow Batteries.
4. **Enol López Hernández** - C(sp<sup>3</sup>)-C(sp<sup>3</sup>) Bond Formation via Electrochemical Alkoxylation and Subsequent Lewis Acid Promoted Reactions. Universidad de Castilla la Mancha en colaboración con Janssen -Cilag.
5. **Ismael Romero Ocaña** - Cork photocurable resin composite for stereolithography (SLA): Influence of cork particle size on mechanical and thermal properties. Universidad de Cádiz (Centro de Transferencia Empresarial El Olivillo, Facultad de Ciencias, Escuela Superior de Ingeniería y Escuela de Algeciras) en colaboración con Consejería de Agricultura, Ganadería, Pesca y Desarrollo Sostenible (Junta de Andalucía), Corchos del Estrecho y Agropelletts del Sur.
6. **Coral Salvo Comino** - Sistemas multisensores basados en nanomateriales para el control de la liberación de gases de efecto invernadero en la industria agroalimentaria. Determinación de marcadores metanogénicos en leche y heces. Universidad de Valladolid en colaboración con Calidad Pascual.

