Fecha del CVA	16/06/2025

Parte A. DATOS PERSONALES

Nombre	Enol		
Apellidos	López Hernández		
Sexo	No Contesta	Fecha de Nacimiento	
DNI/NIE/Pasaporte			
URL Web	https://es.linkedin.com/in/enol-l%C3%B3pez-hern%C3%A1ndez		
Dirección Email	enol.lopez@uva.es		
Open Researcher and Contributor ID (ORCID)	0000-0002-1337-0604		

A.1. Situación profesional actual

Puesto	Associate Professor		
Fecha inicio	2025		
Organismo / Institución	Universidad de Valladolid		
Departamento / Centro			
País		Teléfono	
Palabras clave			

A.2. Situación profesional anterior (incluye interrupciones en la carrera investigadora - indicar meses totales, según texto convocatoria-)

Periodo	Puesto / Institución / País
2021 - 2022	Project Leader / Krasko Research
2019 - 2021	Postdoctoral Researcher / UCLM y Janssen-Cilag
2019 - 2019	Postdoctoral Researcher / Universidad de Gakushiun
2014 - 2018	PhD Student / Universidad de Oviedo
2017 - 2017	Visiting PhD Student / Universidad de Cambridge
2013 -	Undergraduate student / Servicio Regional de Investigación y Desarrollo Agroalimentario

A.3. Formación académica

Grado/Master/Tesis	Universidad / País	Año
Programa Oficial de Doctorado en Síntesis y Reactividad Química	Universidad de Oviedo	2018

Parte B. RESUMEN DEL CV

I graduated in Chemistry from the University of Oviedo in 2013 (Mark = 8.42). During my bachelor's thesis, I discovered my passion for organic chemistry research under the mentorship of Prof. Luis Á. López. In summer of 2013, I joined the Organic Chemistry department under the supervision of Dr. Rubén Vicente working in Rh-catalyzed transformations (Chem. Commun). This experience motivated me to pursue a MSc in Organic Chemistry at the same University in 2014 (Mark = 8.66). There, I gained a strong foundation in organic synthesis methods, particularly through my master's thesis project on the reactivity of ferrocene with metal carbene intermediates generated from diazocompounds, supervised by Prof. Luis A. López.

After completing my academic studies, in 2014, I began my doctoral studies in Prof. Jose Manuel González's group, funded by a scholarship from the Principado de Asturias (FICYT). My doctoral research focused on synthesizing highly functionalized cyclopentene derivatives and metallocene derivatives, where I develop new synthetic methods, optimized reaction conditions, and explored the reaction scope. This experience enhanced my skills in column chromatography, NMR techniques and X-ray diffraction analysis. I actively contributed to national and autonomical research projects and managed several research lines in the lab, some of which resulted in publications in peer-reviewed journals (Angew. Chem. Int. Ed., Adv. Synth. Catal., Chem. Commun). Notably, I established a new research line within the

group involving metallocenes, which led to various publications in high-impact journals (Chem. Eur. J., Organometallics, Eur. J. Inorg. Chem.). I also collaborated with team members, contributing to publications in their thesis (Eur. J. Org. Chem., Molecules). I presented my findings in 13 national and international conferences and seminars through both poster and oral presentations. I completed my doctoral studies in November 2018, achieving the highest qualification (Summa cum laude) and receiving the International Mention. During my PhD, I completed a three-months research stay at Cambridge University with Prof. S. V. Ley, where I learnt about the synthesis of cyclic peptides in continuous flow using a Vapourtec flow system, which allowed to scale-up the synthesis of peptide derivatives in a continuous flow version (J. Flow. Chem. submitted). After finalizing my PhD, I carried out a postdoctoral stay at Gakushuin University in 2019 with Prof. Akiyama, working in the development of new methodologies with ferrocene catalyzed by chiral phosphorics acids. Then, I carried out another postdoctoral stay at Janssen-Cilag in collaboration with University of Castilla-La Mancha, developing new methodologies of organozinc reagents in flow with Dr. Jesús Alcázar. Here, I also learnt about electrosynthesis in continuous flow, where I had the chance to collaborate with Dr. K. Lam and Prof. D. Dixon (Adv. Synth. Catal., Org. Lett). During my stay in the Chemical Technologies department in the pharmaceutical industry, I had the chance to learn about medicinal chemistry, LC-MS, flow chemistry, photochemistry, automation and new transition-metal catalyzed transformations oriented to medchem (Chem. Commun.). Here, I also co-authored 2 book chapters in prestigious collections (Flow and Microreactor Technology in Medicinal Chemistry and Topics in Medicinal Chemistry).

Next in 2021, I moved to Salamanca to be in charge of the synthetic department of a drug discovery program. This new start-up called K-RASKO was lead by Dr. M. Barbacid and the goal was to develop a drug to treat pancreatic tumors. This period has greatly contributed to my professional development, as I have to build up new organic chemistry laboratory and team, design synthetic pathways and obtain new drug candidates to inhibit RAF-1 kinase. During my research experience (25 publications in high impact factor journals, participation in 6 projects) I received various awards and distinctions: PhD Lilly Award (2017), Extraordinary PhD award (2020) and San Alberto Magno Award (2020). I was also finalist in Suschem-JIQ awards in 2018 and 2022 in PreDoc and Innova Categories.

In 2022, I obtained a position as Assistant Professor of Organic Chemistry at University of Valladolid, where I had the opportunity of co-supervising 1 bachelor's and 6 master's thesis students, guiding them through their projects and supporting their integration into research environments. Furthermore, I taught NMR spectroscopy classes to master's students from 2022 and general chemistry. This teaching experience enhanced my leadership, mentoring, and communication skills, while improving my ability to communicate scientific ideas. Since 2024, I am also Spanish Delegate in the European Young Chemistry Network (EYCN), where I meet with delegates from other european chemical societies to improve the quality and motivation of incipient researchers.

Parte C. LISTADO DE APORTACIONES MÁS RELEVANTES

C.1. Publicaciones más importantes en libros y revistas con "peer review" y conferencias

AC: Autor de correspondencia; (nº x / nº y): posición firma solicitante / total autores. Si aplica, indique el número de citaciones

1 **Artículo científico**. Z. E. Wilson; (2/6) E. López; N. J. Floden; C. Watkins; G. Bianchini; S. V. Ley. 2025. Straightforward, scalable, solution-phase synthesis of peptide bonds in flow. J. Flow Chem.

2 **Artículo científico**. L.G. Parte; S. Fernández; E. Sandonis; J. Guerra; E. López. 2024. Transition-Metal-Catalyzed Transformations for the Synthesis of Marine Drugs. Marine Drugs. 22.

3 **Artículo científico**. C. Díez-Poza; P. Val; E. López; A. Barbero. 2024. Metal-free stereoselective synthesis of tetrahydropyrans bearing adjacent quaternary and tertiary stereocenters by acid mediated cyclization. Asian Journal of Organic Chemistry. Wiley.

4 **Artículo científico**. L. F. Peña; P. González-Andrés; L. G. Parte; R. Escribano; J. Guerra; A. Barbero; E. López. 2023. Continuous Flow Chemistry: a novel technology for the synthesis of marie drugs. Marine Drugs. 21, pp.402.

5 **Artículo científico**. B. Piper; R. Martín; A.J. Huertas-Alonso; et al; J. Alcázar. 2023. Fully Automated Flow Protocol for C(sp3)–C(sp3) Bond Formation from Tertiary Amides and Alkyl Halides. Organic Letters.

6 **Artículo científico**. L. F-. Peña; (2/4) E. López; A. Sánchez-González; A. Barbero. 2023. Diastereoselective Synthesis of cis-2,6-Disubstituted Dihydropyrane Derivatives through a Competitive Silyl-Prins Cyclization versus Alternative Reaction Pathways. Molecules. MDPI. 28, pp.3080.

7 **Artículo científico**. L. Fernández-Peña; M. J. Matos; E. López. 2022. Recent Advances in Biologically Active Coumarins from Marine Sources: Synthesis and Evaluation. Marine Drugs. 21, pp.37.

8 **Artículo científico**. E. López; O. Bernardo; L. A. López. 2022. Coinage metal-catalyzed carbo- and heterocyclizations involving alkenyl carbene intermediates as C3 synthons. Tetrahedron Letters. 109.

9 **Artículo científico**. (1/9) E. López; C. van Melis; R. Martín; et al; J. Alcázar. 2021. C(sp3)−C(sp3) Bond Formation via Electrochemical Alkoxylation and Subsequent Lewis Acid Promoted Reactions. Advanced Synthesis and Catalysis. 363, pp.4521. https://doi.org/10.1002/adsc.202100749

10 **Artículo científico**. (1/3) E. López; L. Linares; J. Alcázar. 2020. Flow chemistry as a tool to access novel chemical space for drug discovery. Future Medicinal Chemistry. 12, pp.1547.

11 **Artículo científico**. E. Palao; (2/6) E. López; I. Torres-Moya; A. de la Hoz; A. Díaz-Ortiz; J. Alcázar. 2020. Formation of quaternary carbons through cobalt-catalyzed C(sp3)-C(sp3) Negishi cross-coupling. Chemical Communications. 56, pp.8210. https://doi.org/10.1039/D0CC02734K

12 **Artículo científico**. K. Yamamoto; (2/5) E. López; P. Barrio; J. Borge; L. A. López. 2020. Gold-catalyzed [3+2] carbocyclization reaction of pinacol alkenylboronates: stereospecific synthesis of boryl-functionalized cyclopentene derivatives. Chemistry-An European Journal. 16, pp.6999. https://doi.org/10.1002/chem.202001192

13 **Artículo científico**. S. González-Pelayo; (2/5) E. López; J. Borge; N. de los Santos; L. A. López. 2018. Ferrocene-Decorated Phenol Derivatives by Trapping of ortho-Quinone Methide Intermediates with Ferrocene. European Journal of Organic Chemistry. 22, pp.2858. https://doi.org/10.1002/ejoc.201800396

14 **Artículo científico**. S. González-Pelayo; (2/5) E. López; J. Borge; N. de los Santos; L. A. López. 2018. Trapping of para-Quinone Methide Intermediates with Ferrocene: Synthesis and Preliminary Biological Evaluation of New Phenol-Ferrocene Conjugates. Molecules. 23, pp.1335. https://doi.org/10.3390/molecules23061335.

15 **Artículo científico**. (1/4) E. López; T. Suárez; A. Ballesteros; L. A. López. 2017. Gold(I)-Catalyzed Reaction of Ferrocene and Propargylic Esters: Synthesis of Functionalized Ferrocene Derivative. European Journal of Inorganic Chemistry. 1, pp.225. https://doi.org/10.1002/ejic.201600836

16 **Artículo científico**. (1/3) E. López; J. Borge; L. A. López. 2017. Gold-Catalyzed Intermolecular Formal Insertion of Aryldiazo Esters into Cp-H Bonds of Cp2M (M = Fe, Ru). Chemistry-An European Journal . 23, pp.3091. https://doi.org/10.1002/chem.201605110

17 **Artículo científico**. (1/3) E. López; S. Gonzalez-Pelayo; L. A. López. 2017. Recent Developments in Coinage Metal Catalyzed Transformations of Stabilized Vinyldiazo Compounds: Beyond Carbenic Pathways. The Chemical Record. 17, pp.225. https://doi.org/10.1002/tcr.201600099

18 **Artículo científico**. (1/2) E. López; L. A. López. 2017. Synthesis of Functionalized Cyclopentene Derivatives from Vinyldiazo Compounds and Vinylazides through Sequential Copper-Promoted [3+2]. Angewandte Chemie International Edition. 56, pp.312. https://doi.org/10.1002/anie.201701572

19 **Artículo científico**. (1/3) E. López; G. Lonzi; L. A. López. 2017. Synthesis of Functionalized Cyclopentene Derivatives through Gold-Catalyzed Reaction of Stabilized Vinyldiazo Compounds and Styrenes. Synthesis. 49, pp.5121. https://doi.org/10.1055/s-0036-1590885

20 **Artículo científico**. (1/3) E. López; G. Lonzi; L. A. López. 2016. Gold-Catalyzed Intermolecular Formal (3+2) Cycloaddition of Stabilized Vinyldiazo Derivatives and Electronically Unbiased Allenes. Chemical Communications. 52, pp.9398. https://doi.org/10.1039/C6CC04106J

21 **Artículo científico**. (1/3) E. López; J. González; L. A. López. 2016. Unusual Regioselectivity in the Gold(I)-Catalyzed [3+2] Carbocycloaddition Reaction of Vinyldiazo Compounds and N-Allenamide. Advanced Synthesis & Catalysis. 358, pp.1428. https://doi.org/10.1002/adsc.201501039

22 **Artículo científico**. L. A. López; (2/2) E. López. 2015. Recent advances in transition metal-catalyzed C–H bond functionalization of ferrocene derivatives. Dalton Transactions. 44, pp.10128-10135. https://doi.org/10.1039/C5DT01373A

23 **Artículo científico**. (1/3) E. López; G. Lonzi; L. A. López. 2014. Gold-Catalyzed C–H Bond Functionalization of Metallocenes: Synthesis of Densely Functionalized Ferrocene Derivatives. Organometallics. 33, pp.5924-5927. https://doi.org/10.1021/om500638t

24 **Artículo científico**. M. J. González; (2/3) E. López; R. Vicente. 2014. Rhodium-catalyzed carbene transfer to alkynes via 2-furylcarbenes generated from enynones.Chemical Communications. 50, pp.5379-5381. https://doi.org/10.1039/C3CC47481J

25 **Artículo de divulgación**. 2020. Accediendo a un nuevo espacio químico a través de la catálisis. Revista Alquímicos.

26 **Capítulo de libro**. L. Linares; E. López; E. Palao; J. Alcázar. 2022. Flow Chemistry Opportunities for Drug Discovery. Wiley.

27 **Capítulo de libro**. E. López; J. Alcázar. 2021. Flow Chemistry in Drug Discovery: Challenges and Opportunities. Topics in Medicinal Chemistry. Springer. pp.1-22.

C.3. Proyectos o líneas de investigación

1 **Proyecto**. Uso de compuestos organometálicos en fotoquímica y electroquímica. (Janssen-Cilag y UCLM). 20/05/2019-17/01/2021. Postdoctoral researcher in charge of carrying out new photo- and electrochemical transformations which can be used in drug discovery programs. The candidate was in charge of validating a new electroc...

2 **Proyecto**. Addition and substraction transformations for the catalytic valoration of unsaturated systems. MINISTERIO DE ECONOMIA Y EMPRESA. (Universidad de Oviedo). 01/08/2017-27/11/2018. As PhD student new transition-metal catalyzed transformations with metal carbene precursors which were trapped in presence of unsaturated systems. The candidate opened a new research line in the grou...

3 **Proyecto**. Asymmetric synthesis and unsaturated systems: challenges and chances for catalysis in selective organic synthesis.. (Universidad de Oviedo). 28/11/2014-31/07/2017. Development as PhD student new transition-metal catalyzed transformations with metal carbene precursors which were trapped in presence of unsaturated systems. A new research line was opened in the g...

4 **Proyecto**. SYNTHESIS OF BIO-POLYMERS WITH POTENTIAL BIODEGRADABILITY FROM STRUCTURAL BIO-MONOMERS. A. Barbero. (Universidad de Valladolid). Desde 10/2024.

5 **Proyecto**. Identificación y caracterización de candidatos frente a RAF1 y EGFR. COMUNIDAD DE CASTILLA Y LEON. (Krasko Research). Desde 02/2021. In this drug discovery process, the candidate was the project leader (supervising 1 PhD and 1 MsC) in charge of developing the synthesis of drug candidates which can be screened against two protein t...