

Fecha del CVA	19/01/2024
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Parte A. DATOS PERSONALES

Nombre	Enol		
Apellidos	López Hernández		
Sexo	No Contesta	Fecha de Nacimiento	
DNI/NIE/Pasaporte			
URL Web			
Dirección Email			
Open Researcher and Contributor ID (ORCID)	0000-0002-1337-0604		

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
2022 -	Associate Professor / University of Valladolid
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
Máster en Química y Desarrollo Sostenible	Universidad de Oviedo	2014
Graduado en Química	Universidad de Oviedo	2013

Parte B. RESUMEN DEL CV

Enol López graduated in Chemistry from the University of Oviedo in 2013. From 2014-2018 he carried out her Ph.D. studies at the same university, under the supervision of Prof. L. A. López and A. Ballesteros with the predoctoral grant 'Severo Ochoa' provided by Principado de Asturias. In 2018 he received the PhD degree in organic chemistry, which was awarded with the Doctorate Award given by the University of Oviedo.

He carried out an international stay at Cambridge University, working in flow chemistry under the supervision of Prof. Steven V. Ley. Then, he carried out a postdoctoral stay at Gakushuin University with Prof. T. Akiyama, working in the development of new methodologies catalyzed by chiral phosphoric acids. In 2019, he carried out another postdoctoral stay at Janssen-Cilag in collaboration with University of Castilla-La Mancha, developing new methodologies of organozinc reagents under continuous flow under the supervision of Dr. Jesús Alcázar. He also developed new electrochemical methodologies and transition-metal catalyzed transformations oriented to medchem. Next, he was in charge of a drug discovery program in a start-up lead by M. Barbacid, supervising 1 PhD and 1 MsC and obtaining new drug candidates that can inhibit RAF-1 kinase. In 2022, he obtained a position as Assistant Professor at University of Valladolid in which he has supervised 4 MsC students. He has given oral communications in national and international conferences (4), international seminars (2 in Vietnam) and in pharmaceutical companies (1 in Eli Lilly). He has co-authored 2 book chapters in prestigious collections (Flow and Microreactor Technology in Medicinal Chemistry and Topics in Medicinal Chemistry) and more than 20 scientific publications in high standard international journals (13 Q1 (62%)), being the corresponding author in 2 of them. Among these publications, they are worth to be mentioned: *Angew. Chem. Int. Ed.* (1), *Chem. Commun.* (3), *Adv. Synth. Catal.* (2), *Chem. Eur. J.* (2). He is currently Spanish Delegate in European Young Chemistry Network (EYCN) and he

received various awards and distinctions: PhD Lilly Award in 2017, Extraordinary PhD award (2020) and San Alberto Magno Award (2020). He was also finalist in Suschem-JIQ awards in 2018 and 2022 in PreDoc and Innova Categories, respectively.

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 citas

- 1 **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 marine drugs. *Marine Drugs*. 21, pp.402.
- 2 **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*.
- 3 **Artículo científico**. L. F. Peña; E. López; A. Sánchez-González; A. Barbero. 2023. Diastereoselective Synthesis of cis-2,6-Disubstituted Dihydropyrene Derivatives through a Competitive Silyl-Prins Cyclization versus Alternative Reaction Pathways. *MDPI*. 28, pp.3080.
- 4 **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.
- 5 **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.
- 6 **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>
- 7 **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.
- 8 **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>
- 9 **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>
- 10 **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>
- 11 **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>.
- 12 **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>

- 13 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>
- 14 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>
- 15 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>
- 16 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>
- 17 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>
- 18 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>
- 19 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>
- 20 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>
- 21 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>
- 22 Artículo de divulgación.** 2020. Accediendo a un nuevo espacio químico a través de la catálisis. *Revista Alquímicos*.
- 23 Capítulo de libro.** L. Linares; E. López; E. Palao; J. Alcázar. 2022. *Flow Chemistry Opportunities for Drug Discovery*. Wiley.
- 24 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.2. Congresos

- 1 C(sp³)-C(sp³) bond formation reactions through organozinc agents. *International Symposium on Synthesis and Catalysis*. 2023. Portugal.
- 2 Reactivity of metal carbene complexes and Organometallics. *Advances in flow chemistry. Research Seminar*. Vietnam Academy of Science and Technology. 2023. Vietnam.
- 3 Novel Technologies in Synthetic Organic Chemistry. *Research Seminar*. 2023. Vietnam.
- 4 E. López; L. A. López. Exploiting the reactivity of carbenes: functionalization and cycloaddition reactions promoted by coinage metals. Flash presentation.. XXVII Reunión bienal. 2018. España.
- 5 E. López; J. González; L. A. López. Unusual regioselectivity in the gold-catalyzed (3+2) cycloaddition reaction of vinyl diazo compounds and N-allenamides. *Poster Communication.. Spanish Japanese Symposium of modern synthetic methodology*. 2018. España.
- 6 E. López. Carbene based methodologies for the functionalization of metallocenes and the synthesis of functionalized cyclopentenoids. *Invited speaker.. XXXVI Reunion Bienal*. 2017.

- 7 E. López. Exploiting the reactivity of carbenes: functionalization and cycloaddition reactions. Invited speaker. Eli Lilly instalaciones. 2017. España.
- 8 E. López; J. González; L. A. López. Gold catalyzed (3+2) cycloaddition reaction of vinyl diazocompounds and N-Allenamides. Flash Communication.. SISOC XI. 11th Spanish-Italian Symposium on Organic Chemistry. 2016. España.
- 9 E. López; J. González; L. A. López. Gold catalyzed (3+2) cycloaddition reaction of vinyl diazocompounds and N-Allenamides. Poster Communication.. SISOC XI. 11th Spanish-Italian Symposium on Organic Chemistry. 2016. España.
- 10 E. López; L. A. López. Funcionalización de metallocenos catalizada por complejos de Au(I). Poster communication.. XXXV Reunión Bienal. Real Sociedad Española de Química. 2015. España.

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 subtraction 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.** 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...
- 5 **Contrato.** Contrato de colaboración al amparo del Art 83 de la LOU Krasko Research SL. Desde 01/09/2021.