

Leire Landa Bilbao

Date of birth **10 May 1996**

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EDUCATION AND FORMATION

- Jan. 2020 – Present **PhD student** in the University of the Basque Country (UPV/EHU) (Leioa, Spain)
Grant awarded by Basque Government 2020 (Jan. 2020 – Jan. 2024)
- Oct. 2018 – Oct. 2019 **Chemical Engineering Interuniversity Master** in the University of the Basque Country (UPV/EHU) (Leioa, Spain) and the University of Cantabria (UC) (Santander, Spain)
- Sept. 2014 – June 2018 **Chemical Engineering Degree** in the University of the Basque Country (UPV/EHU) (Leioa, Spain)

WORK EXPERIENCE

- Feb. 2018 – May 2018 **Novattia Desarrollos, S.L.**
- June 2019 – Sept. 2019 **Master's Final Project** in the **Catalytic Processes & Waste Valorization** (CPWV) research group: Coke deactivation of NiAl₂O₄ catalyst in the steam reforming of bio-oil: influence of feed composition

Participation in projects

- Jan. 2019 – Present **RTI2018-100771-B-I00**
Intensification of the H₂ production by bio-oil steam reforming in fluidized bed reactor: *in-situ* CO₂ capture and membrane reactor.
- Jan. 2019 – Dec. 2021 **IT1218-19**
Group research lines

Publications

- July 2021
- AUTHORS: J. Valecillos, S. Iglesias-Vázquez, L. Landa, A. Remiro, J. Bilbao, A.G. Gayubo
TITLE: Insights into the Reaction Routes for H₂ Formation in the Ethanol Steam Reforming on a Catalyst Derived from NiAl₂O₄ Spinel
JOURNAL *Energy Fuels*. 2021, 35, 17197-17211
I.F.: 3.605 (2020); Q2 57/143 (chemical engineering)
DOI: <https://doi.org/10.1021/acs.energyfuels.1c01670>

AUTHORS: L. Landa, A. Remiro, R. de la Torre, R. Aguado, J. Bilbao, A.G. Gayubo

TITLE: Global vision from the thermodynamics of the effect of the bio-oil composition and the reforming strategies in the H₂ production and the energy requirement

JOURNAL *Energ Convers Manage.* 2021, 239, 114181

I.F.: 9.709 (2020); Q1 2/60 (thermodynamics)

DOI: <https://doi.org/10.1016/j.enconman.2021.114181>

Congresses

- June 2022 **International Conference on BIOMASS (IconNM2022)** (Napoles, Italy) (Oral)
Title: Comparison of fixed and fluidized bed reactors in the steam reforming of raw bio-oil with NiAl₂O₄ derived catalyst
Authors: L. Landa, A. Remiro, S. Iglesias-Vazquez, J. Valecillos, A.G. Gayubo, J. Bilbao
- International Conference on BIOMASS (IconNM2022)** (Napoles, Italy) (Oral)
Title: Hydrogen production from ethanol through steam reforming on Ni-based catalysts
Authors: S. Iglesias-Vazquez, J. Valecillos, L. Landa, A. Remiro, J. Bilbao, A.G. Gayubo
- May 2022 **European Hydrogen Energy Conference** (Madrid, Spain) (Oral)
Title: Role of catechols and guiacols on the deactivation of NiAl₂O₄ catalyst in bio-oil steam reforming
Authors: L. Landa, A. Remiro, N. García-Gómez, G. Elordi, B. Valle, A.G. Gayubo, J. Bilbao
- Oct. 2021 **Sociedad Española de Catálisis (SECAT21)** (Valencia, Spain) (Poster)
Title: Efecto de la temperatura y la relación másica sorbente/catalizador en el reformado con vapor del bio-oil con captura in situ de CO₂
Authors: S. Iglesias, J. Valecillos, L. Landa, A. Remiro, J. Bilbao, A.G. Gayubo
Publication: Abstracts Book, page 414
- Sept. 2021 **5th EuChemS Conference on Green and Sustainable Chemistry (5th EuGSC)** (Virtually) (Thessaloniki, Greece) (Oral)
Title: Effect of operating conditions in the sorption enhanced steam reforming (SESR) of bio-oil with dolomite as sorbent”
Authors: L.Landa, A. Remiro, J. Valecillos, B. Valle, A.G. Gayubo
Publication: Abstracts Book, page 63

- 17th International Conference on Renewable Resources and Biorefineries (RRB2021)** (Aveiro, Portugal) (Poster)
Title: Effect of steam/ethanol ratio on ethanol steam reforming with a NiAl_2O_4 derived catalyst
Authors: S. Iglesias, J. Valecillos, L. Landa, A. Remiro, J. Bilbao, A.G. Gayubo
Publication: Abstracts Book, page 100
- March 2021 **24th International Congress of Chemical Engineering and Process Engineering CHISA** (Virtually) (Prague, Czech Republic) (Oral)
Title: Deactivation of NiAl_2O_4 catalyst in the steam reforming of bio-oil: Role of acetaldehyde
Authors: A. Remiro, L.Landa, N. García-Gómez, G.Elordi, B. Valle, A.G. Gayubo, J. Bilbao
Publication: Abstracts Book, doi.org/10.48158/MeCCE-14.DG.05.03
- 2020 (Accepted) **8th EuChemS Chemistry Congress (ECC8)** (Lisbon, Portugal) (Oral)
Title: Deactivation of NiAl_2O_4 catalyst in the steam reforming of bio-oil: Role of acetol
Authors: L. Landa, A. Remiro, N. García-Gómez, G.Elordi, B. Valle, A.G. Gayubo, J. Bilbao
- Dec. 2020 **14th Mediterranean Congress of Chemical Engineering** (Virtually) (Barcelona, Spain) (Oral)
Title: Deactivation of NiAl_2O_4 catalyst in the steam reforming of acetic acid
Authors: L. Landa, A. Remiro, N. García-Gómez, G.Elordi, B. Valle, A.G. Gayubo, J. Bilbao
Publication: Abstracts Book, doi.org/10.48158/MeCCE-14.DG.05.03
- Oct. 2020 **XXVII Congreso Iberoamericano de Catálisis 2020** (Virtual) (México) (Oral)
Title: Pre-reformado con dolomita para mejorar la estabilidad del catalizador NiAl_2O_4 en el reformado con vapor del bio-oil
Authors: N. García-Gómez, B. Valle, L. Landa, A. Remiro, G.Elordi, J. Bilbao, A.G. Gayubo
Publication: Abstracts Book, page 269, O-S2-05-402.
- Sept. 2020 **VII Jornadas de Investigación de la Facultad de Ciencia y Tecnología** (Virtually) (Leioa, Spain)
Title: Performance of NiAl_2O_4 catalyst in the steam reforming of raw bio-oil (Oral)
Authors: L. Landa, N. García-Gómez, A. Remiro, A.G. Gayubo
Publication: Abstracts Book, page 188

Title: Replacing oil and valorizing CO₂ (Poster)

Authors: A.T. Aguayo, J. Alvarez, S. Alvarez, A. Ateka, M. J. Azkoiti, P. L. Benito, T. Cordero-Lanzac, G. Elordi, E. Epelde, J. Ereñá, N. García-Gómez, A. G. Gayubo, L. Landa, A. Portillo, A. Remiro, M. J. San José, S. Izaddoust, I. Sierra, Z. Tabernilla, J. Valecillos, B. Valle, H. Vicente

Publication: Abstracts Book, page 131

Courses

May 2021	Gas chromatography with mass detection. Theoretical lessons and practical applications (30 hours) Entity: General X-Ray Research Service (SGiker) in the Faculty of Science and Technology, University of the Basque Country (UPV/EHU)
Nov. 2020	Fundamentals for the characterization of materials using X-ray Diffraction (polycrystalline and monocrystalline sample) and X-ray Fluorescence techniques (20 hours) Entity: General X-Ray Research Service (SGiker) in the Faculty of Science and Technology, University of the Basque Country (UPV/EHU)
July 2020	Catalyst Characterisation Training Workshop (6 hours), EU RISE-BIOMASS-CCU Entity: School of Chemistry and Chemical Engineering, Queen's University Belfast
March 2020	Thermal analysis and calorimetry (3.5 h) Entity: IESMAT & Setaram Instrumentation in collaboration with the University of the Basque Country (UPV/EHU)

PERSONAL COMPETENCES

Languages

Spanish	Native
Basque	Native
English	Medium B2

Computer Skills

Microsoft Office	Advanced knowledge
Origin	Advanced knowledge
ASPEN	Basic knowledge
PRO II	Basic knowledge
Matlab	Basic knowledge
Scilab	Basic knowledge
SPSS	Basic knowledge