



CURRICULUM VITAE ABREVIADO (CVA)

Part A. PERSONAL INFORMATION

First name	Ana María
Family name	Lacasta Palacio
Gender (*)	woman
Open Researcher and Contributor ID (ORCID) (*)	0000-0002-9060-6043

A.1. Current position

Position	Full professor (Catedrática Universidad)	
Initial date	2017	
Institution	Universitat Politècnica de Catalunya (UPC)	
Department/Center	Architectural Technology	Barcelona School of Building Construction (EPSEB)
Country	Spain	
Key words	Bio-based materials. Acoustics. Thermal and fire characterization.	

A.2. Previous positions (research activity interruptions, indicate total months)

Period	Position/Institution/Country/Interruption cause
1997-2017	Lecturer (Titular de Universidad) / UPC
1991-1997	Assistant (profesora asociada) / UPC

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Degree in Physics	Universitat de Barcelona	1991
PhD in Physics	Universitat de Barcelona	1994

Part B. CV SUMMARY (max. 5000 characters, including spaces)

I received my Ph.D. in Physics in 1994 from the Universitat de Barcelona. My activity has been mainly developed in the Physics Department of the Universitat Politècnica de Catalunya (UPC), first as an assistant professor and, from 1997, as a lecturer. Since June 2017 I'm Full Professor in the Department of Architecture Technology of UPC.

Throughout the years I have carried out experimental research on characterization and optimization of materials, in combination with theoretical developments and numerical simulations. I have been responsible for the EPSEB fire laboratory from 2007 to 2021 and I'm currently responsible for the Acoustic and Energy Saving Laboratory.

Since its creation in 2009, I have led the research group GICITED (Interdisciplinary Group on Building Science and Technology).

1. Scientific contributions

I have contributed to the generation of knowledge, disseminating ideas and research results both in high-impact publications and at conferences. Throughout my academic career I have presented more than 100 communications at national and international conferences. I have collaborated with numerous researchers from all over the world and I have been part of the Management Committee of two COST Action.

I have been researcher of numerous competitive research projects, in many occasions as principal investigator. Some main indicators of quality of my scientific production are:

- Number of publications in JCR journals: 77 (61 Q1)
- h-index: 28 (WoS)
- Number of times cited: 2214
- Participation in competitive projects: 29
- Principal investigator in competitive projects: 10

- Patents: 1
- Research merit recognition (sexenios): 5

2. Contributions to society

Since its creation, in the year 2015, I am responsible for the Network LIGNOMAD- "Network for the promotion of wood and other lignocellulosic materials in the construction sector". At present the LIGNOMAD network integrates 15 research groups and has the collaboration of different companies in the sector

As a member of the "Fire" and the "Acoustics and Energy Saving" laboratories, I have participated in many technology transfer activities. I have also participated in projects and agreements with city councils and other institutions. This is the case of the VERD BCN project (Barcelona City Council) focused on the analysis of green roofs in the city of Barcelona, which also focused on the promotion of citizen science.

3. Contributions to the training of young researchers

I have supervised five PhD theses, already finished:

- Iván Ortega. Protocol d'anàlisi del sòl urbà consolidat en l'àmbit de la regeneració urbana: el cas de Ca n'Anglada - Terrassa (Barcelona). Presentation date: 22/01/2025
- Roberto Aguilar. Uniones y elementos de conexión para estructuras con bambú: clasificación y desarrollo de un prototipo de conexión. Presentation date: 04/11/2022
- Mariana Palumbo. Contribution to the development of new bio-based thermal insulation materials made from vegetal pith and natural binders. Presentation date: 08/10/2015
- Joan Formosa Mitjans. Formulaciones de nuevos morteros y cementos especiales basadas en subproductos de magnesio. Presentation date: 03/12/2012
- Maria Khoury Arvelo. Transport and diffusion on periodic and random surfaces. Presentation date: 20/12/2010

Two of them, Joan Formosa and Mariana Palumbo, continued their academic careers at the university and now have consolidated Lecturer positions. I am currently supervising 4 more PhD theses, which are at different stages of progress.

Since 2018 I'm the Coordinator of the doctoral program in Architectural, Building Construction and Urbanism Technology of UPC.

Part C. RELEVANT MERITS (sorted by typology)

C.1. Publications

1. Alves, Z., Carvalheiras, J., Senff, L., Lacasta, A. M., Cantalapiedra, I. R., Labrincha, J. A., Novais, R. M. (2024). A comparison between the use of cork and synthetic aggregates in the production of geopolymer composites. *Construction and Building Materials*, 438, 137147.
Index measuring impact (JCR-Science Edition): 7.4; Quartile: Q1
2. Arias-Cárdenas, B., Lacasta, A. M., Haurie, L. (2024). Bibliometric analysis of research on thermal, acoustic, and/or fire behaviour characteristics in bio-based building materials. *Construction and Building Materials*, 432, 136569.
Index measuring impact (JCR-Science Edition): 7.4; Quartile: Q1
3. Rodríguez Neira, K., Cárdenas-Ramírez, J. P., Rojas-Herrera, C. J., Haurie, L., Lacasta, A. M., Torres Ramo, J., Sánchez-Ostiz, A. (2024). Assessment of Elaboration and Performance of Rice Husk-Based Thermal Insulation Material for Building Applications. *Buildings*, 14(6), 1720.
Index measuring impact (JCR-Science Edition): 3.1; Quartile: Q2

4. Pérez, G., Reyes, M., Coma, J., Alva, A., Berigüete, F. E., Lacasta, A. M. (2024). Methodological framework for impact evaluation of Building-Integrated Greenery (BIG-impact). *MethodsX*, 102961.
Index measuring impact (JCR-Science Edition): 1.6; Quartile: Q2
5. Mahpour, A. R., Sadrolodabaei, P., Ardanuy, M., Haurie, L., Lacasta, A. M., Rosell, J. R., Claramunt, J. (2023). Serviceability parameters and social sustainability assessment of flax fabric reinforced lime-based drywall interior panels. *Journal of Building Engineering*, 76, 107406.
Index measuring impact (JCR-Science Edition): 7.144; Quartile: Q1
6. Aza-Medina, L. C., Palumbo, M., Lacasta, A. M., González-Lezcano, R. A. (2023). Characterization of the thermal behavior, mechanical resistance, and reaction to fire of totora (*Schoenoplectus californicus* (CA Mey.) Sojak) panels and their potential use as a sustainable construction material. *Journal of Building Engineering*, 69, 105984.
Index measuring impact (JCR-Science Edition): 7.144; Quartile: Q1
7. Sadrolodabaei, P., Hosseini, S. A., Claramunt, J., Ardanuy, M., Haurie, L., Lacasta, A. M., de la Fuente, A. (2022). Experimental characterization of comfort performance parameters and multi-criteria sustainability assessment of recycled textile-reinforced cement facade cladding. *Journal of Cleaner Production*, 356, 131900.
Index measuring impact (JCR-Science Edition): 11,072; Quartile: Q1
8. Mayer-Laigle, C., Haurie Ibarra, L., Breyse, A., Palumbo, M., Mabilie, F., Lacasta Palacio, A. M., Barron, C. (2021). Preserving the cellular tissue structure of maize pith through dry fractionation processes: A key point to use as insulating agro-materials. *Materials*, 14(18), 5350.
Index measuring impact (JCR-Science Edition): 3.748; Quartile: Q1
9. R.M. Novais, L. Senff, J. Carvalheiras, A.M. Lacasta, I.R. Cantalapiedra, J.A (2021). Simple and effective route to tailor the thermal, acoustic and hygrothermal properties of cork-containing waste derived inorganic polymer composites. *Journal of Building Engineering*, 42, 102501.
Index measuring impact (JCR-Science Edition): 3,379; Quartile: Q1
10. R.M. Novais, J. Carvalheiras, L. Senff, A.M. Lacasta, I.R. Cantalapiedra, J. Giro-Paloma, J.A. Labrincha (2020). Multifunctional cork–alkali-activated fly ash composites: A sustainable material to enhance buildings' energy and acoustic performance. *Energy and Buildings*, 210, 109739.
Index measuring impact (JCR-Science Edition): 4,495; Quartile: Q1

C.3. Research projects.

1. Title: BioSAFE - Bio-sustainable solutions for the acoustic and fire improvement of building envelopes
Principal investigators: Ana M. Lacasta and Laia Haurie Funding body: Ministerio de Economía y Competitividad Reference: PID2020-117530RB-I00
Total amount: 175.087 €
Start date: 01/09/2021, 4 years
Role: principal investigator
2. Title: BCN proximity green: Plan for monitoring and evaluating the operation and impact of green covers and facades in the city of Barcelona
Principal investigators: Gabriel Pérez (UdL) / Ana M. Lacasta (UPC)
Funding body: Ajuntament de Barcelona
Reference: 21S09258-001
Total amount: 44,374 €
Start date: 10/12/2021, 18 months
Rolle: principal investigator
3. Title: BIOFIBRE - Sustainable construction with bio-composite materials

Principal investigator UPC: Laia Haurie

Funding body: European Commission (Erasmus +) Reference: 2022-1-DK01-KA220-HED-00086641

Start date: 12/2022, 3 years

Role: investigator

4. Title: SBES - Sustainable solutions for building envelopes Principal investigator: Ana M. Lacasta and Laia Haurie
Funding body: Ministerio de Economía y Competitividad Reference: BIA2017-88401-R
Total amount: 70.180
Start date: 01/01/2018, 3 years
Role: principal investigator
5. Title: - SAVASCO - Structuring a cross-border sector for the valorisation of corn and sunflower stalks for the construction industry
Principal investigator: Camille Magniont (Université Toulouse III Paul Sabatier) Funding body: Intereg-poctefa project (FEDER)
Reference: EFA353/19
Total amount: 866.299,92
Start date: 06/2020, 2 years
Role: investigator
6. Title: HybridTim - Design and construction on environmental high performance Hybrid Engineered Timber Buildings
Principal investigator UPC: Laia Haurie
Funding body: European Commission (Erasmus +) Reference: 2020-1-DK01-KA203-075045- HybridTim
Start date: 09/2023, 3 years
Role: investigator
7. Title: GICITED - Grup interdisciplinari de Ciència i Tecnologia en l'Edificació
Principal investigator: Ana M. Lacasta
Funding body: AGAUR (Generalitat de Catalunya) Reference: 2021 SGR 01405
Total amount: 40.000
Start date: 01/01/2022, 3.5 years
Role: principal investigator

C.4. Contracts, technological or transfer merits

Authors: A.M. Lacasta Palacio, M. Palumbo Fernandez, J. Avellaneda Diaz-Grande, A. Navarro Ezquerra, J.M Rosell Amigo

Reference P201431352 - Spanish Patent

Title: Materiales aislantes térmicos a base de biomasa y gomas naturales.

Presentation date: 18/09/2014 / Concession date: 09/01/201