CURRICULUM VITAE (maximum 4 pages)

A.1. Current position

Name of University/Institution	Universidad Pública de Navarra		
Department	Dpto. de Ingeniería Eléctrica, Electrónica y Comunicación		
Address and Country	Campus de Arrosadía. Pamplona. Navarra. Spain		
Current position	Full-professor	From	1/3/1996
Key words	Photonics. Optical fiber sensors. Optical fiber lasers		

A.2. Education

PhD	University	Year
Ph. D. in telecommunications Engineering	Universidad Politécnica de Madrid	1989

A.4. General indicators of quality of scientific production

Supervised Ph.D. thesis in the last 10 years: 7

H index: ISI web of science: **33**. Scopus: 35. Google Scholar: 41

Total number of citations:
ISI web of science: **3843.** Scopus: 4234. Google Scholar: 5664

Average citations/year last 5 years:
ISI web of science: **270.** Scopus: 294. Google Académico: 369

Average number of citations per publication: 14 (ISI web of Science)

Total number of papers in Journals JCR: 185. First quartile: 117. First decile: 61

Total number of papers in International conferences: 153 (12 Invited)

***Recognized 6-years research periods*: 7. Date of the last one: May 2022**

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

Previous Employments

1985–1996 Assistant and Associate Professor at Departamento de Tecnología Fotónica, ETSI Telecomunicación. Universidad Politécnica de Madrid

1992 Visiting post-doc researcher, BT Laboratories, Martlesham Heath, Ipswich, UK. Research on amplified fiberoptic sensors networks

1987 Visiting Ph. Student, INTEC, University of Gent (Belgium) Research on integrated optics

Prizes, honors and additional relevant information

1990 Extraordinary doctorate prize of the Universidad Politécnica de Madrid
1998 Senior member of the IEEE

Research awards of Universidad Pública de Navarra:

- Best Senior Scientist (2001)
- Best Young Scientist (1998)
- Best research paper (2010)

2011 Arquimedes award from the Spanish Education Ministry. Best research supervisor in Engineering

2014-now Spanish representative at the experts committee IEC SC86C WG2 on Fibre Optic Sensors

October 2022 Co-founder of Spin-off company "Menditech", devoted to optical fiber sensors for traffic control

2022-now Associate Editor of Scientific Reports and Frontiers in sensors

2015-2017 Invited associate editor of Journal of Lightwave Technology (IEE/OSA), and Sensors (MDPI, Basel)

2013-2014 Chairman of the technical committee of the 23th Optical fiber sensors international conference

2010–2014 Spanish representative at the management committee of the European Cost Action TD1001 "OFSeSa"

2005–2009 Spanish representative at the management committee of the European Cost Action 299 "FIDES"

2005–2007 Chairman of the optoelectronic committee of Spain (SEDOPTICA)

2002–2005 Head of the Engineering Faculty of Universidad Pública de Navarra

1996–2002 Head of the Electrical and Electronic Department of Universidad Pública de Navarra

Conferences committees:

Member of 36 international and 19 national scientific conferences technical committees.

Currently: Optical Fiber Sensors Conference, OFS (2023), and EWOFS (2023)

Projects and research fields

Total number of research projects: 60 (coordinator 9, principal investigator 27, co–investigator 29)

- Competitive research projects: 41
- Technology transfer projects with industry: 19

Research fields: Optical fiber sensors and sensors networks, optical communications, integrated optics, semiconductor lasers, fiberoptic lasers, optical amplifiers.

Part C. RELEVANT MERITS

C.1. Publications (including books): Just 10 representative ones since 2013

1- R. A. Perez-Herrera, M. Bravo, D. Leandro, S. Novais, J. Pradas and M. Lopez-Amo **"Multiparameter sensor based on a multi-interferometric serial configuration for temperature and strain measurements**" IEEE Selected Topics in Quantum Electronics vol. 27, no. 6, pp. 1-4, Nov.-Dec. 2021, Art no. 5600704, DOI: 10.1109/JSTQE.2021.3072163 2021

2-R. A. Perez-Herrera, M. Bravo, P. Roldan-Varona, D. Leandro, L. Rodriguez-Cobo, J. M. Lopez-Higuera y M. Lopez-Amo, **"Microdrilled tapers to enhance optical fiber lasers for sensing"** Scientific Reports Vol. 11, Art. n. 20408 (2021) https://doi.org/10.1038/s41598-021-00046-711 Octubre 2021

3- P. Roldán-Varona, R. A. Perez-Herrera, L. Rodriguez Cobo, L. Reyes-González, M. Lopez-Amo and J. M. Lopez-Higuera**, "Liquid level sensor based on dynamic Fabry–Perot**

interferometers in processed capillary fiber " Scientific Reports Vol. 11, Article number: 3039 (2021) DOI: 10.1038/s41598-021-82193-5 Feb. 2021

4- D. Leandro, M. Zhu, M. Lopez-Amo and H. Murayama **"Quasi-distributed Vibration Sensing Based on Weak Reflectors and STFT Demodulation**" Journal of Lightwave Technology Vol. 38, n. 24, pp. 6954-6960, DOI: 10.1109/JLT.2020.3020467 Dec. 2020

5- V.deMiguel-Soto, **M. Lopez-Amo "Truly remote fiber optic sensor networks" (Invited Review)** J. Phys. Photonics vol 1 (2019) n.4 pp. 042002 DOI: 10.1088/2515-7647/ab3f0e Oct. 2019

6- R. A. Perez-Herrera, D. Pallarés-Aldeiturriaga, A. Júdez, L. Rodriguez Cobo, M. Lopez-Amo, and J. M. Lopez-Higuera, **"Optical fiber lasers assisted by microdrilled optical fiber tapers"** Optics Letters.Vol. 44, pp. 2669-2672 June 2019

7- M. Zhu, D. Leandro, M. López-Amo, H. Murayama **"Quasi-distributed vibration sensing using OFDR and weak reflectors"** Optics Letters Vol. 44, n. 8 pp. 1884-1887 April 2019

8- V.deMiguel-Soto, D. Leandro, M. Lopez-Amo **"Ultra-long (290 km) remote interrogation sensor network based on a random distributed feedback fiber laser"** Optics Express Vol. 26, n. 21 pp. 27189-27200 October 2018 **(world distance record in remote sensing using optical fiber networks)**

9-R.A. Pérez-Herrera, M. López-Amo **"Fiber optic sensor networks" (Invited paper)** Optical Fiber Technology Vol. 19, n. 6-B, pp. 689–699 Dec. 2013

10- Ana M.R.Pinto, M.López-Amo **"All-fiber lasers through photonic cristal fibers" (Invited Paper)** Nanophotonics V.2, n:5-6 pp.355-368 Dec. 2013 **Impact factor JCR: 5,686**

C.2. Research projects and grants

Just 9 significative ones since 2013

1- Dispositivos y sistemas fotónicos sensores para estructuras inteligentes y evaluación no destructiva II. Agencia Estatal de Investigación. Proyectos I+D+i PID2019-107270RB-C22 PIs M. López-Amo y A. Loayssa From 1/6/2020 to 31/5/2023 207.999 Euros

2- New Reconfigurable Spectrum Optical Fibre Laser Sources (RESOLES) H2020-MSCA-IF-2018.Type of action: MSCA-IF-EF-ST. Project number: 838143 PIs: M. Bravo and M. López-Amo(Supervisor) from 1/5/2019 to: 30/4/2021 172.932,48 Euros

3- Advanced Metrology of Random Lasers (AdMeRaL)Projets Recherche et Valorisation 2017. Mobility Project. Cluster d'Excellence LAPHIA (IdEx Bordeaux) PIs: G. Santarelli and M. López-Amo From: 1/10/2017 to: 30/9/2019 11.000 Euros

4- Sensores fotónicos para seguridad y protección CICYT TEC2016-76021-C2-1-R PIs M. López-Amo and A. Loayssa from 30/12/2016 to: 29/12/2019 231.110 Euros

5- Advanced fibre laser and coherent source as tools for society, manufacturing and lifescience COST Action MP1401 (EU) June 2014 – May 2018 IP: Stefano Taccheo (GB). PI UPNA group: M. López-Amo

6- Sensores de fibra optica para seguridad y protección CICYT TEC2013-47264-C2-2-R PIs M. López-Amo y A. Loayssa from: 1/1/2014 to: 31/12/2016 277.937 Euros

7- Gestión ecológica de pilas de residuos de carbón en combustión (ECOAL-MGT) SUDOE-Interreg IV (EU) Nov. 2012 – June 2015 PI: Manuel López-Amo. Budget: 247.224,49 Euros

8- Tecnologías para sensores de fibra óptica CICYT TEC2010-20224-C02-01PI:M. López-Amo from 1/1/2011 to: 31/7/2014 Budget: 265.595 Euros

9- Novel and Reliable Optical Fibre Sensor Systems for Future Security and Safety Applications (OFSeSa) COST Action TD1001 (EU) Nov. 2010 – Nov. 2014 PI: Dr. Sinead O'Keeffe, University of Limerick Coordinator in Spain:M. López-Amo 501.676 Euros for 71 participants

C.3. Contracts (just 3 recent ones)

1- Caracterización de sensores de bajo coste para su integración en sistemas de control (FBGs), para la Asociación de la Empresa de Navarra(AIN). Gobierno de Navarra. Proyectos de I+D Convocatoria 2016 Jul-Dec 2016. PI: Manuel López-Amo. Budget: 50.145 Euros

2- Desarrollo de seguidor solar bifila con sensorizacion de efectos del viento (WINDSOLAR) para la empresa Soluciones Técnicas Integrales Norland S.L. proyectos de I+D. Transferencia de Conocimiento num:. 0011-1365-2017-000122 from 01/06/2017 to 30/04/2019 PI. Alayn Loayssa Budget: 96.703,87 Euros.

3- Sistema de monitorización distribuida por fibra óptica para grandes edificios para la Empresa AH y Asociados dentro del proyecto "OpenLab" de Horizonte 2020, nº 101037080 from 15/03/2023 to 31/03/2026 PI: Manuel López-Amo. Budget: 34.500 Euros

C.4. Patents

1-Inventors: R. Rodríguez Sola, M.López-Amo, I. Arocena, M.A. Erro ***Títle:"Pala de Aerogenerador con Baliza luminosa en su punta" Nº:*** **P200800345** Concedida: 1- de Marzo de 2011 Num Pub OEPM 2353320 **Extension to USA, Europe and China:** ***Title:"Wind turbine blade with a light bacon at the tip"*** **USA: US 8.038.401 B2**. Published 18th de October 2011 **EP2088313-A3** Published 9 th Jan. 2013 **CN101514676-A** Published 26th aug.2009. 1952 Num. Pub OEPM: 2117939

C.5, Institutional responsibilities, memberships of scientific societies

2022-23 Associate editor of Scientific Reports and Frontiers in sensors

2014-23 Spanish representative at the experts committee IEC SC86C WG2 on Fibre Optic Sensors

2015-17 Invited associate editor of Journal of Lightwave Technology (IEE/OSA), and Sensors (MDPI, Basel)

2013-14 Chairman of the technical committee of the 23th Optical fiber sensors international conference

2010–2014 Spanish representative at the management committee of the European Cost Action TD1001 "OFSeSa"