

CV Date	21/05/2024
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Part A. PERSONAL INFORMATION

First Name	J esús		
Family Name	Martinez Perdiguero		
Sex	Male	Date of Birth	
URL Web			
Email Address			
Open Researcher and Contributor ID (ORCID)	0000-0002-9155-6279		

A.1. Current position

Job Title	Profesor Titular		
Starting date	2020		
Institution	Universidad del País Vasco		
Department / Centre	Departamento de Física / Facultad de Ciencia y Tecnología		
Country	Spain	Phone Number	
Keywords			

A.2. Previous positions (Research Career breaks included)

Period	Job Title / Name of Employer / Country
2016 - 2020	Profesor Adjunto / Universidad del País Vasco

A.3. Education

Degree/Master/PhD	University / Country	Year
Programa Oficial de Doctorado en Ciencia y Tecnología de Materiales	Universidad del País Vasco	2009

Part C. RELEVANT ACCOMPLISHMENTS

C.1. Most important publications in national or international peer-reviewed journals, books and conferences

AC: corresponding author. (n^o x / n^o y): position / total authors. If applicable, indicate the number of citations

- Scientific paper. Richard J. Mandle; Nerea Sebastián; (3/4) Josu Martínez-Perdiguero; Alenka Mertelj. 2021. On the molecular origins of the ferroelectric splay nematic phase. Nature Communications. Nature. 12-4962, pp.1-12. SCOPUS (1) <https://doi.org/10.1038/s41467-021-25231-0>
- Scientific paper. A. Erkoreka; J. Martínez-Perdiguero. 2024. Development of a high-frequency dielectric spectrometer using a portable vector network analyzer. Rev. Sci. Instr. AIP. 95, pp.023903-1-023903-6. <https://doi.org/10.1063/5.0177065>
- Scientific paper. Aitor Erkoreka; Alenka Mertelj; Mingjun Huang; Satoshi Aya; Nerea Sebastián; (6/6) Josu Martínez-Perdiguero (AC). 2023. Collective and non-collective molecular dynamics in a ferroelectric nematic liquid crystal studied by broadband dielectric spectroscopy. The Journal of Chemical Physics. 159, pp.184502-1-184502-10. <https://doi.org/10.1063/5.0173813>
- Scientific paper. Aitor Erkoreka; (2/5) Josu Martínez-Perdiguero (AC); Richard J. Mandle; Alenka Mertelj; Nerea Sebastián. 2023. Dielectric spectroscopy of a ferroelectric nematic liquid crystal and the effect of the sample thickness. Journal of Molecular Liquids. 387, pp.122566-1-122566-8. <https://doi.org/10.1016/j.molliq.2023.122566>

- 5 **Scientific paper.** 2020. Fermion-like behavior of elements in their spatial distribution around points of interest. *Physica A: Statistical Mechanics and its Applications*. 557, pp.24905-1-24905-7. ISSN 0378-4371. (0) <https://doi.org/10.1016/j.physa.2020.124905>
- 6 **Scientific paper.** (1/1) J. Martínez-Perdiguero (AC). 2020. Optimized sample addressing in prism-coupled surface plasmon resonance experiments. *Optics and Laser Technology*. 129, pp.106240-1-106240-6. SCOPUS (0) <https://doi.org/10.1016/j.optlastec.2020.106240>
- 7 **Scientific paper.** (1/1) J. Martínez-Perdiguero (AC). 2019. On a Common Mistake in the Description of the Photoelectric Effect. *The Physics Teacher*. 57, pp.536-537. ISSN 0031-921X. SCOPUS (1) <https://doi.org/10.1119/1.5131119>

C.2. Conferences and meetings

- 1 Jesús Martínez Perdiguero; Aitor Erkoreka. Effect of the sample thickness on the measured dielectric spectra of a ferroelectric nematic liquid crystal. 16th European Conference on Liquid Crystals. University of Calabria. 2023. Italy.
- 2 Dielectric and polar properties of the ferroelectric nematic phase. 11th Conference on Broadband Dielectric Spectroscopy and its Applications (BDS2022). 2022. Spain. Participatory - oral communication.
- 3 Josu Martínez-Perdiguero; Richard J. Mandle; Alenka Mertelj. Dielectric and polar properties of the ferroelectric nematic phase. Ferroelectric Liquid Crystals Conference. Jožef Stefan Institute. 2021. Slovenia.