Date of the CVA	10/10/2019

Section A. PERSONAL DATA

Name and Surname	Enrique Nácher González		
DNI/NIE/Passport		Age	42
Researcher's identification number	Researcher ID	G-2257-2010	
	Scopus Author ID		
	ORCID	0000-0002-2123-539X	

A.1. Current professional situation

Institution	Consejo Superior de Investigaciones Científicas		
Dpt. / Centre	Experimental / Instituto de Física Corpuscular		
Address			
Phone		Email	enrique.nacher@csic.es
Professional category	Científico Titular	Start date	2017
UNESCO spec. code	220000 - Physics		
Keywords	Physics - Experimental nuclear physics; Physics - Instrumentation and data analysis		

A.2. Academic education (Degrees, institutions, dates)

Bachelor/Master/PhD	University	Year
Programa Oficial de Doctorado en Física Nuclear	Universitat de València	2004
Licenciado en Ciencias Físicas	Universitat de València	

A.3. General quality indicators of scientific production

- Publications (SCI, WoS): 84 (25 in Q1, the rest in Q2)
- Publications (non-SCI): 18
- Total number of citations (WoS): 699
- h-index: 13 (WoS).
- Contributions to conferences/worshops: 25 (8 invited oral contributions)

- Referee for Nuclear Engineering and Design (Elsevier), IEEE Access (IEEE) and Nuclear Instruments and Methods B (Elsevier)
- Expert evaluator for ANEP (national organism) and for the bureau of standars and verifications NG Veritas
- Work supervision: 3 PhD thesis finished and 1 ongoing, 2 master thesis, 1 degree thesis.

Section B. SUMMARY OF THE CURRICULUM

Born: Jan-30th-1977 in Valencia

Current position: Staff Scientist (Cientifico Titular) at IFIC-CSIC

- Career:
2000: Degree in Physics (Lienciatura) at Universidad de Valencia
2000-2004: FPU Fellowship at CSIC, PhD in Nuclear Physics in 2004
2004-2005: Director of R&D department at GEM-Imaging S.L.
2005-2009: Staff teacher at Cambridge H. Comm. College (high-school)
2009-2017: Senior University Specialist at IEM-CSIC

Research keywords: experimental nuclear physics; nuclear structure; nuclear astrophysics; beta-decay; medical applications; nuclear instrumentation; gamma-ray spectroscopy;

Scientific Indicators:

- Publications (SCI, WoS): 84 (25 in Q1, the rest in Q2)
- Publications (non-SCI): 18
- Total number of citations (WoS): 699
- h-index: 13 (WoS)
- Contributions to conferences/worshops: 24 (8 invited oral contributions)

Other merits:

- Referee for:
Nuclear Engineering and Design (Elsevier)
IEEE Access (IEEE)
Nuclear Instruments and Methods B (Elsevier)

- Expert evaluator for:
ANEP (national organism)
Bureau of standars and verifications NG Veritas

- Tuition & supervision: 3 PhD thesis finished and 1 ongoing, 2 master thesis, 1 degree thesis.

Section C. MOST RELEVANT MERITS (ordered by typology)

C.1. Publications

1 **Scientific paper**. Vaquero V.; et al. 2019. Inclusive cross sections for one- and multi-nucleon removal from Sn, Sb, and Te projectiles beyond the N□=□82 shell closure Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics. 795, pp.356-361. ISSN 03702693.

2 **Scientific paper**. Berry T.; et al. 2019. Investigation of the Δn□=□0 selection rule in Gamow-Teller transitions: The β-decay of ²⁰⁷ Hg Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics. 793, pp.271-275. ISSN 03702693.

3 **Scientific paper**. Guadilla V.; et al. 2019. Large Impact of the Decay of Niobium Isomers on the Reactor v e Summation Calculations Physical Review Letters. 122. ISSN 00319007.

4 **Scientific paper**. Holl M.; et al. 2019. Quasi-free neutron and proton knockout reactions from light nuclei in a wide neutron-to-proton asymmetry range Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics. 795, pp.682-688. ISSN 03702693.

5 **Scientific paper**. Atar, L.; et al. 2018. Quasifree (p, 2p) Reactions on Oxygen Isotopes: Observation of Isospin Independence of the Reduced Single-Particle Strength PHYSICAL REVIEW LETTERS. 120. ISSN 0031-9007.

6 **Scientific paper**. Revel A.; et al. 2018. Strong Neutron Pairing in core+4n Nuclei Physical Review Letters. 120. ISSN 00319007.

7 **Scientific paper**. Ribeiro G.; et al. 2018. Structure of Be 13 studied in proton knockout from B 14 Physical Review C. 98. ISSN 24699985.

8 **Scientific paper**. Rubio, B.; et al. 2017. Beta decay studies with total absorption spectroscopy and the Lucrecia spectrometer at ISOLDE JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS. 44-8. ISSN 0954-3899.

9 **Scientific paper**. Vaquero, V.; et al. 2017. Gamma Decay of Unbound Neutron-Hole States in Sn-133 PHYSICAL REVIEW LETTERS. 118-20. ISSN 0031-9007.

10 **Scientific paper**. Pesudo, V.; et al. 2017. Scattering of the Halo Nucleus Be-11 on Au-197 at Energies around the Coulomb Barrier PHYSICAL REVIEW LETTERS. 118-15. ISSN 0031-9007.

11 **Scientific paper**. Nacher, E.; et al. 2016. Observations of the Gamow-Teller resonance in the rare-earth nuclei above Gd-146 populated in beta decay PHYSICAL REVIEW C. 93-1. ISSN 0556-2813.

12 **Scientific paper**. Briz, J. A.; et al. 2015. Shape study of the N = Z nucleus Kr-72 via beta decay PHYSICAL REVIEW C. 92-5. ISSN 0556-2813.
13 **Scientific paper**. Nacher, E.; et al. 2015. Proton response of CEPA4: A novel LaBr3(Ce)-LaCl3(Ce) phoswich array for high-energy gamma and proton spectroscopy NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 769, pp.105-111. ISSN 0168-9002.
14 **Scientific paper**. Taprogge, J.; et al. 2014. Identification of a millisecond isomeric state in Cd-129(81) via the detection of internal conversion and Compton electrons PHYSICS LETTERS B. 738, pp.223-227. ISSN 0370-2693.
15 **Scientific paper**. Cortina-Gil, D.; et al. 2014. CALIFA, a Dedicated Calorimeter for the (RB)-B-3/FAIR NUCLEAR DATA SHEETS. R3B Collaboration. 120, pp.99-101. ISSN 0090-3752.
16 **Scientific paper**. Tengblad, O.; et al. 2013. LaBr3(Ce):LaCl3(Ce) Phoswich with pulse shape analysis for high energy gamma-ray and proton identification NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 704, pp.19-26. ISSN 0168-9002.
17 **Scientific paper**. Algora, A.; et al. 2010. Reactor Decay Heat in Pu-239: Solving the gamma Discrepancy in the 4-3000-s Cooling Period PHYSICAL REVIEW LETTERS. 105-20. ISSN 0031-9007.
18 **Scientific paper**. Nerina Gimenez, Eva; et al. 2006. Comparison of different approaches based on Monte Carlo methods to calculate the system matrix for small animal PET NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 569-2, pp.346-349. ISSN 0168-9002.
19 **Scientific paper**. Gadea, A.; et al. 2006. Observation of Ni-54: Cross-conjugate symmetry in f(7/2) mirror energy differences (vol 97, art no 152501, 2006) PHYSICAL REVIEW LETTERS. 97-19. ISSN 0031-9007.
20 **Scientific paper**. Algora, A; et al. 2004. beta decay of Dy-148: Study of the Gamow-Teller giant state by means of total absorption spectroscopy PHYSICAL REVIEW C. 70-6. ISSN 0556-2813.
21 **Scientific paper**. Nacher, E; et al. 2004. Deformation of the N = Z nucleus Sr-76 using beta-decay studies PHYSICAL REVIEW LETTERS. 92-23. ISSN 0031-9007.

C.2. Participation in R&D and Innovation projects

1 B2017/BMD- 3888, PROTONTHERAPY AND NUCLEAR TECHNIQUES FOR ONCOLOGY (PRONTO) Comunidad de Madrid. Actividades de I+D entre grupos de investigación de la Comunidad de Madrid en Biomedicina. Enrique Nácher González. (Consejo Superior de Investigaciones Científicas). 01/01/2018-01/01/2022. 188.140 €. Principal investigator.
2 Phoswich scintillator assemblies: Application to the Simultaneous detection of PArticle and Gamma radiation (PASPAG) Olof Tengblad. (Consejo Superior de Investigaciones Científicas). 01/03/2016-29/02/2020. 400.000 €.
3 EXPERIMENTOS DE ESTRUCTURA NUCLEAR Y ASTROFISICA CON HACES RADIOACTIVOS Y NEUTRONES Y APLICACIONES José Luis Taín Enríquez. (Consejo Superior de Investigaciones Científicas). 01/01/2018-31/12/2019. 217.000 €.
4 ESTUDIOS EXPERIMENTALES DE LA ESTRUCTURA NUCLEAR EXOTICA Ministerio de Economía y Competitividad. Olof Tengblad. (Consejo Superior de Investigaciones Científicas). 01/01/2016-31/12/2019. 350.000 €.
5 ESTRUCTURA NUCLEAR EN NUCLEOS EXOTICOS: EXPERIMENTACION, ESTUDIOS TEORICOS Y DESARROLLOS INSTRUMENTALES PARA AGATA Ministerio de Economía y Competitividad. Andrea Jungclaus. (Consejo Superior de Investigaciones Científicas). 01/01/2015-31/12/2017. 120.000 €.
6 ESTUDIOS EXPERIMENTALES DEL NUCLEO ATOMICO Y I+D PARA R3B@FAIR Ministerio de Economía y Competitividad. Olof Tengblad. (Consejo Superior de Investigaciones Científicas). 01/01/2013-31/12/2015. 332.000 €.

7 GAmma detection with Novel Advanced Scintillators (GANAS) Ministerio de Ciencia e Innovación / Union Europea. ERANET-NUPNET. Olof Tengblad. (Consejo Superior de Investigaciones Científicas). 01/11/2011-31/12/2015. 112.000 €.

8 DINÁMICAS Y ESTRUCTURAS DE NÚCLEOS EXÓTICOS. CALIFA-DB1, UN DEMOSTRADOR DEL CALORÍMETRO DE R3B Ministerio de Economía y Competitividad. Olof Tengblad. (Consejo Superior de Investigaciones Científicas). 01/01/2010-31/12/2012. 728.299 €.

9 THE STUDY OF EXOTIC NUCLEI USING GAMMA-RAY SPECTROSCOPY Ministerio de Economía y Competitividad. Andrea Jungclaus. (Consejo Superior de Investigaciones Científicas). 01/01/2010-31/12/2011. 130.000 €.

C.3. Participation in R&D and Innovation contracts

C.4. Patents