Prof. Dr. Jesús SANTAMARIA RAMIRO

Positions:

Professor of Chemical Engineering and **Exobiopharma Chair of Nanomedicine** at the **University of Zaragoza;** the group leader at the **Nanoscience and Materials Institute of Aragon** (INMA), **Spain, EU**.

Personal Background and Education:

Jesús Santamaría Ramiro studied **Chemistry/Chemical Engineering** at the University of La Laguna (Spain) and did his **PhD at** the **Salford University** (England), with **postdoctoral stays at Notre Dame University** (1989) and **Massachusetts Institute of Technology** (2008), both in the USA.

Currently he is a Professor of Chemical Engineering and Exobiopharma Chair of Nanomedicine at the University of Zaragoza in Spain, as well as group leader at the Nanoscience and Materials Institute of Aragon (INMA, https://inma.unizar-csic.es/en) – one of only 36 research centers in Spain from all knowledge areas to have received the highly prestigious Severo Ochoa label.

Research interests:

His research group **Nanostructured Films and Particles** (NFP) specializes in the development of high-precision, scalable synthesis of nanomaterials and on the applications of the structures synthesized, in different fields. Santamaria´s research interests are mainly in two areas:

- unconventional catalysis: catalysis assisted by electromagnetic fields, (light, microwaves and magnetic fields); single-atom catalysts.
- materials for nanomedicine, including novel vectors for drug delivery, hyperthermia and materials for bio-orthogonal catalysis in cancer;

Scientific Awards and publications:

Prof. Santamaría work has been acknowledged by numerous awards and other forms of recognition, including in recent years his election as Academician in the Royal Academy of Sciences of the Canary Islands (2018), the **Third Millennium "Research and Future" Award** (2022), Academia Europaea-The Academy of Europe (2022) and Istituto Lombardo Accademia di Science et Lettere (2023), as well as the Prize for Excellence in Research awarded by the government of Aragon (2024).

He has taken part in 102 research projects, in most of them as P.I. Of these projects, 21 have been EU-funded, including **three of the highly prestigious ERC Advanced Grants** (HECTOR, 2011-16; CADENCE, 2017-23; and ROMEO, 2025-30) the last two focused on developing **catalysts and nanoparticles capable of fighting cancer**, as well as **novel methods to deliver them to the tumor**.

He has authored **398 publications** in international peer-reviewed journals; the number of total citations >23.200 and **H-index: 79** (Google Scholar, January 2026).