

## Luis Liz-Marzán new member of the American National Academy of Engineering

For his contributions to engineering and technology, Luis Liz-Marzán has been awarded the distinction of International Member by the National Academy of Engineering (NAE)

This award recognizes the development of new fields in technology and the application of innovative approaches in engineering

**Donostia-San Sebastian. 9 February, 2023.** The American National Academy of Engineering® (NAE) has just published the list of the 18 academics it will be honoring as NAE International Members in 2023. Among them is Luis Liz-Marzán, Ikerbasque professor at CIC biomaGUNE and professor at the University of Vigo, in recognition of his contributions and the application of Colloid Chemistry in the fields of nanoplasmonics, nanoparticles and nanosensors. Liz-Marzán is the senior researcher in CIC biomaGUNE's [Bionanoplasmonics](#) group and also senior researcher at the Bioengineering, Biomaterials and Nanomedicine Networking Biomedical Research Center ([CIBER-BBN](#)).

Admission to the NAE honors those who have made outstanding contributions to “engineering research, practice or teaching” and who have “pioneered new fields of technology and developed and made significant advances in traditional fields of engineering, as well as in the application of innovative approaches in engineering”.

The new members will be formally admitted at the ceremony to be held during the NAE annual meeting on October 1, 2023. The full list of the 2023 NAE members is available [here](#).

### About Luis Liz-Marzán

Luis Liz-Marzán, holder of a PhD in chemistry, specialized in Colloid Science and focused his research on nanoscience and nanomedicine, specifically on metallic nanoparticles with plasmonic properties and their applications in the biomedical field. Today, he is one of the most recognized scientists of his generation for his numerous, significant contributions to his field. He is the author of over 500 papers in journals of international impact, co-inventor of nine patents and editor of four books. Due to the high impact of his publications, he was nominated *ISI Highly Cited Researcher* for seven years running (2014-2020). His papers have received over 50,000 citations, with an H-index around 120 (WOS data), and more than 90 publications have been rated as highly cited papers by Essential Science Indicators.

Liz-Marzán embarked on his career at the University of Santiago de Compostela, and after two years of postdoctoral research at the University of Utrecht, he joined the University of Vigo in 1995. From 2012 to 2022 he was scientific director of CIC biomaGUNE, where he continues to lead the Bionanoplasmonics Laboratory, and is an Ikerbasque professor. He is also the head of a

node at the Bioengineering, Biomaterials and Nanomedicine Networking Biomedical Research Centre (CIBER-BBN).

He is one of a small number of European researchers to have gained access to the prestigious *ERC Advanced Grants* on two consecutive occasions (2012-2017; 2018-2023), both related to the biomedical applications of nanomaterials. In addition, he is a member of numerous editorial boards (he is the only Spanish member on the *Board of Reviewing Editors of Science*) and has been editor of several journals of the American Chemical Society. Professor Liz-Marzán is a Fellow of the Royal Society of Chemistry (UK) and of the Optical Society of America (USA), a full member of the Spanish Royal Academy of Sciences, a corresponding member of the academies of sciences of Galicia and Granada, as well as of the European Academy of Sciences. The numerous awards he has received include the Humboldt Research Award, the RSEQ Medal, the Blaise Pascal Medal in Materials Science, the Rey Jaime I Prize, the Rhodia Prize of the European Colloid and Interface Society, and the Enrique Moles National Prize in Chemical Science and Technology, the Lilly Foundation Award for Biomedical Research and the French-Spanish “Miguel Catalán-Paul Sabatier” award of the French Chemical Society (SCF). He has also been recently awarded an honorary doctorate by the University of Antwerp.

### **About the National Academy of Engineering**

The [National Academy of Engineering](#) is a private, independent, not-for-profit institution that provides leadership in engineering at the service of society. Its mission is to promote welfare and prosperity by providing independent advice on matters related to engineering and technology, and by promoting a dynamic profession that enjoys public appreciation. The NAE has over 2,000 members, top professionals in business, academia and government who are among the world's leading engineers and who provide leadership and expertise for numerous projects focusing on the relationships between engineering, technology and quality of life.

### **About CIC biomaGUNE**

The Center for Cooperative Research in Biomaterials CIC biomaGUNE, member of the Basque Research and Technology Alliance ([BRTA](#)), conducts state-of-the-art research at the interface between Chemistry, Biology and Physics, devoting particular attention to studying the properties of biological nanostructures on a molecular scale and their biomedical applications. It was recognized in 2018 as a “María de Maeztu” Unit of Excellence for meeting requirements of excellence, which are characterized by a high impact and level of competitiveness in its field of activity on the global scientific stage.