Short bio: Dr. Patricia HORCAJADA

With an unconventional and multidisciplinary scientific background (Pharmacy BCs, 2001 and Material Science Ph.D, 2005; University Complutense of Madrid, Spain), her pioneered PhD work (awarded with PhD distinction) was focused on porous materials for bone replacement and drug release. She then (2005) joined the Institut Lavoisier-France, as CNRS researcher, initiating a totally new field, the biomedical application of MOFs. Since 2016, Dr. Horcajada is Senior Researcher and the Head of the Advanced Porous Materials group in IMDEA Energy (Madrid, Spain). Her research activity is focused on the development of new porous materials with advanced functionalities, from their synthesis design and specific shaping/formulation to their application in diverse industrial and societal strategic fields, including energy, environment and health.

Dr Horcajada (*h*=75) is coauthor of 189 publications (150 in Q1; 72 in D1), 7 book chapters, 1 edited book and 9 patents, with >30,900 citations and >2,800 citations *per* year in the last 5 years; ~6 articles cited >1000 times and 60 cited > 100 times (according with WoS; Oct. 2024). She has participated in >150 conferences, including 45 invited presentations, 2 keynotes, and 10 plenary lectures.

Her large frame of collaborations has made possible to be involved in 69 highly multidisciplinary projects (45 National, 12 European, 4 International and 8 industrial contracts; coordinating 1 International, 6 EU and 22 National projects, and 2 industrial contracts).

She has also large experience in mentoring students: 22 (11 in progress) PhDs. She has also supervised 25 postdoctoral researchers (from which 15 have got a permanent position either in academia or industry, and 4 got the MSCA-IF), 6 technical engineers, 19 MSc, 17 BSc, 8 practical works and >30 undergraduate students.

Finally, along her career, she has been awarded with several prizes and awards, including the “Technology woman” senior category (University Deusto, 2024), “Young Doctoral de Alcala” (2023), Silver Medal of the International Association of Advanced Materials (2023), Female Talent from the Spanish Royal Society of Sciences (2022), “Young Researchers Leading Groups” award from Spanish Royal Society of Chemistry (RSEQ; 2020), Leonardo award from BBVA Foundation (2017), “Miguel Catalan” Price for researchers younger than 40 years (2016) and the CNRS Scientific Excellence Prize (PES; 2011-2014). She is ranked in the 2%-top worldwide researchers (2020-2023 ranking from Stanford University).