

Dr. Sergio Pinilla's research interests and background lie on the battery field. Throughout his career he has covered a wide range of topics from materials to new testing procedures and modeling.

Dr. Sergio Pinilla obtained his PhD in the field of nanomaterials for energy storage, graduating with international mention and Cum Laude in 2017 at the UAM (Spain). During his PhD, he was also awarded a grant from Fundacion Iberdrola, "Ayudas a la investigación 2016" for his project "Development of silicon nanowires for advanced lithium-ion batteries". In 2018 he did a postdoctoral stay at Münster Electrochemical Energy Technology (MEET) (Germany), in the group of Prof. Martin Winter. In 2019 he was awarded an MSCA fellowship to work in the field of additive manufacturing of Li-ion batteries in Prof. Nicolosi group at Trinity College Dublin (Ireland). In 2022 he was awarded a second MSCA fellowship, under the program E4F with Iberdrola, to join the Electrochemical processes unit at IMDEA Energia (Spain). In 2023 he was promoted to Senior Assistant Researcher at IMDEA energy after obtaining a 5-year fellowship under the "Programa de atracción de talento de la Comunidad de Madrid". Both in 2023 and 2024 he did short stays in Prof. Alejandro A. Franco group at the Laboratoire de Réactivité et Chimie des Solides (LRCS), Amiens, France, to work on the modeling of batteries.

Throughout his career, Dr. Sergio Pinilla has published 25 papers being first or equal contributor in 14 of them and corresponding in 3. He has over 2500 citations, 630 just in 2024. He has published in some of the most prestigious journals in the material science and energy storage field (Adv. Energy Mater, Adv. Mater, Nat Rev Mater. etc) and deposited an industrially exploited patent. He is guest editor in "npj 2d materials and applications" for a collection entitled "2D Nanomaterials for Energy Applications" and serve regularly as a reviewer in that journal as well in other prestigious journals the field such as "Energy Storage Materials". He is directing one PhD thesis, he is principal investigator (PI) of 2 projects, one national, funded by the AEI under the "Generación de conocimiento" call, and one regional under the "Atracción de talento" program. He is also expert reviewer in the "Energía y transporte" panel for the AEI. In the last year, he had a notorious presence in the mainstream media where he had two interviews on national and regional public television ("RTVE" and "Telemadrid") and one intervention in public radio as an expert in batteries for electric vehicles ("CanalSur").