

PROFESSIONAL PROFILE



Dr. Jesús Salvador Jaime Ferrer holds a Ph.D. in Process Engineering from École Centrale Paris; he is a Level 2 National Researcher with the SNII and a tenured researcher at CIATEC. His research areas include energy storage and generation, batteries, water treatment, and functional membranes.

He has 17 years of experience in science and technology, including 10 years at French technology companies affiliated with EDF and the CEA, during which time he also collaborated with IBM. He participated in the industrial transfer of photovoltaic and energy storage technologies; designed and optimized a pilot plant for manufacturing

thin-film solar cells; and led the process scaling for manufacturing electrodes and assembling supercapacitors and prismatic and pouch-type lithium-ion cells.

He has led 2 projects in France and 4 in Mexico, and has collaborated on 3 European projects and 11 national projects. In Mexico, he served as technical leader on projects involving power generation via reverse electrodialysis, electrochemical wastewater treatment, and the development of nanofibrous materials.

He participated in the drafting of strategic documents for SECIHTI on the national production of lithium-ion batteries and their application in public electric mobility. He has also served as an expert consultant for Litio for México (LitioMx) and was part of the Mexican delegation to the Permanent Forum for Technical Dialogue on Innovation, Technological Development, and Value Addition for Lithium.

Recently, he was part of the battery team for the Olinia Project, where he characterized and evaluated their integration into modules, defining design parameters and operational limits for the battery management system. He is currently collaborating on the national strategic R&D&I project to strengthen the lithium value chain, particularly in the validation of raw materials, cell manufacturing and evaluation, industrial scaling, and regulatory analysis. He has 37 scientific publications (average IF of 4.2), 1,134 citations, and an h-index of 19. He is also the inventor of 9 international patents and has 3 Mexican patent applications pending.