

PROFESSIONAL PROFILE



PhD. Araceli Ezeta Mejía is a professor and researcher in the Department of Metallurgical and Materials Engineering at ESIQIE-IPN, holding the rank of Full Professor C. She holds a degree in Industrial Chemical Engineering and a graduate degree in Metallurgy and Materials, both from ESIQIE-IPN. She is a Level II member of the SECIHTI National System of Researchers. She has received the Distinction for Research Performance (EDI) – IPN at Level VII, the IPN Commission for the Operation and Promotion of Academic Activities (SIBE - COFAA) Fellowship at Level V, and the distinction of being a member of the Energy Network (Research and Graduate Networks - IPN).

His research focuses on electrochemistry, electrocatalysis, and corrosion.

She teaches the course on Corrosion (Theory and Laboratory) at the undergraduate level and the courses on Corrosion and Electrochemical Techniques at the graduate level.

She has 22 publications in high-impact journals. She is currently participating in the following project: Multidisciplinary SIP Project – IPN (Project No.: 2326) "Development of electrode materials to improve the performance of solid-state fuel cells during operation."

She has previously participated in two Multidisciplinary SIP Projects as Module Director: "Advanced Perovskite-Type Materials as a Platform for Energy Conversion and Degradation Inhibition on Metallic Substrates" (2021–2013) and "Sustainable Generation of New Materials from Nanocrystalline Cellulose for Advanced Applications" (2018–2020), as well as in two individual SIP projects as Principal Investigator: "Study of the catalytic activity of Pd-Ru nanoparticles obtained by mechanical alloying in the oxidation reaction of organic molecules in fuel cells" (2017) and "Study of the activity of metal nanoparticles obtained by mechanical alloying in the oxygen reduction reaction used in fuel cells" (2016).

She has participated in 30 international conferences and 27 national conferences.

She has supervised 9 bachelor's theses and 1 doctoral dissertation, and is currently supervising 2 bachelor's theses, 1 master's thesis, and 1 doctoral dissertation.

She is the coordinator of the multidisciplinary area and a member of the Scientific Committee for the Engineering section of the journal *Horizontes de Investigación y Desarrollo SIP-IPN*. He served as coordinator and member of the Scientific Evaluation Committee for the Interpolytechnic Research Conference for graduate students (2024 and 2025). Member of the Evaluation Committee for the awarding of scholarships from the Organization of American States (OAS) for graduate research studies (2024, 2025, and 2026). Member of the Evaluation Committee for the International Congress on Teaching and Research in Chemistry (2019–present) and member of the Evaluation Committee for the journal *Tendencia en Docencia e Investigación en Química* (2019–present).

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