

Assoc. Prof. Dr. Ramiz Gültekin Akay is a faculty member in the Department of Chemical Engineering at Kocaeli University, where he serves as the founder and coordinator of the Hydrogen, Fuel Cells, and Electrochemical Technologies Laboratory (HYPET).

He received his B.Sc. (1998), M.Sc. (2001), and Ph.D. (2008) degrees in Chemical Engineering from Middle East Technical University (METU). Joining Kocaeli University in 2009, Dr. Akay has dedicated his academic career to advancing electrochemical technologies and clean energy solutions. His research primarily focuses on the design and synthesis of polymer electrolyte membranes for various fuel cell architectures, novel anode catalysts, electrolysis, microbial fuel cells, and electrochemical hydrogen separation and compression systems.

In addition to teaching core chemical engineering courses, Dr. Akay delivers specialized undergraduate and graduate courses, including *Electrochemical Technologies and Applications*, *Fuel Cell Technologies and Applications*, and *Electrochemical Characterization Methods*.

An active contributor to the scientific literature, he served as co-editor and chapter author for *Direct Liquid Fuel Cells: Fundamentals, Advances and Future* (Elsevier–Academic Press, 2020) and co-authored *Hydrogen in Energy Conversion* (TMMOB Chamber of Chemical Engineers, 2022). He has led and contributed to numerous high-impact research initiatives, serving as Principal Investigator on strategic TÜBİTAK projects focused on electrochemical hydrogen purification/compression from reformat gas streams and performance optimization in direct borohydride fuel cells.