

Assoc. Prof. Dr. Emre Aslan

Dr. Emre Aslan is an Associate Professor in the Department of Biochemistry at Selçuk University, Türkiye. He received his B.Sc. (2012), M.Sc. (2014), and Ph.D. (2018) degrees in Chemistry from Selçuk University. His research focuses primarily on sustainable hydrogen production and advanced catalytic materials, with particular emphasis on photocatalysis, piezocatalysis, photoelectrochemistry, electrocatalysis, and interfacial catalysis. His research interests include the rational design of semiconductor heterojunctions, S-scheme photocatalysts, 2D/2D nanocomposites, clay-based catalytic materials, metal and metal-sulfide catalysts, dye-sensitized photoactive systems, and nanostructured electrodes for solar-driven hydrogen production and CO₂ conversion. He has also investigated photo-enhanced piezocatalytic hydrogen evolution, artificial photosynthesis, and catalytic processes at liquid/liquid interfaces. Dr. Aslan has participated in numerous national and international research projects funded by COST, TÜBİTAK and Selçuk University, serving as principal investigator, researcher, or project advisor. His current projects include the development of electrodeposited metal/metal-sulfide catalysts, clay-based photo/piezocatalysts, S-scheme heterojunction photocatalysts, and photoelectrodes for artificial photosynthesis. He has authored 80+ SCI indexed scientific publications and has an h-index of 27, with approximately 2000 citations.

