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Research Axis:

Water Analysis, Adsorption, Wastewater Engineering, Environmental Chemistry, Water Chemistry, Biological Treatment, Chemical Engineering, Nanocomposites, Wastewater and Waste Treatment, Waste Management, Water Purification, Membrane Technology, Advanced Processes, Filtration, Membrane Separation, Titanium Dioxide, Desalination, Ultrafiltration, Reverse Osmosis, Membrane Filtration, Electrochemical Engineering, Wastewater Reuse, Hollow Fibers, Electrodialysis, Environmental Photocatalysis, Nanofiltration, Fenton Reaction

Dr. Konstantinos Plakas is an Assistant Researcher in the Chemical Process & Energy Resources Institute (CPERI; www.cperi.certh.gr) of the Centre for Research & Technology-Hellas (CERTH; www.certh.gr). He is a Chemical Engineer (BEng, MSc, PhD, Aristotle University of Thessaloniki) and his research expertise focuses on the development of advanced technologies for water and wastewater, for pollution abatement, recovery of added-value materials and energy, in the principles of circular economy and sustainability. His work has been concentrated to membrane processes, advanced oxidation processes (heterogeneous photocatalysis, homogeneous and heterogeneous Fenton oxidation, $\text{H}_2\text{O}_2/\text{UVC}$, $\text{H}_2\text{O}_2/\text{TiO}_2/\text{UVC}$) and electrochemical processes (electro-Fenton, (solar)photo-electro-Fenton, anodic oxidation). His research activities resulted to 20 peer-reviewed scientific papers, 5 book chapters, 1 patent and more than 60 papers in international and national conference/workshop proceedings (h-index=15, more than 750 hetero-citations). He has been involved in many R&D projects funded by the European Commission, chemical industries and other national funding agencies.