



Prof. Dr. Yusuf DİLGİN

Prof. Dr. Yusuf Dilgin is working at the Department of Chemistry, Faculty of Science, Çanakkale Onsekiz Mart University, Turkey. He received the BSc and MSc degrees in chemistry from Firat University, Elazığ-Turkey, in 1997 and 1999, respectively, and the PhD degree in chemistry from Ege University, İzmir-Turkey, in 2004. From September 2005 to June 2006, he received a post-doctoral fellowship from The Scientific and Technological Research Council of Turkey and worked as a guest researcher in Prof. Lo Gorton's research laboratory at Lund University, Sweden. He has research interests in studying electrocatalysis and photoelectrocatalysis of some biologically important compounds using chemically modified electrodes, developing electrochemical and photoelectrochemical sensors, construction of biosensors, and the application of electrochemical sensors in flow injection analysis systems. Recently, he has been interested in electrochemical and optical sensors and biosensors using the bis-neocuproine copper(II) complex ( $[\text{Cu}(\text{Nc})_2]^{2+}$ ) known as the CUPRAC reagent. This reagent was first developed by Professor Reşat Apak et al. from Istanbul University-Cerrahpaşa-Turkey in 2004 to be used in total antioxidant capacity (TAC) determination. Recently, the integration of the CUPRAC reagent with enzymes such as glucose oxidase, glucose dehydrogenase, lactate oxidase, and cholesterol oxidase and the implementation of the enzyme-based biosensor depending on this beneficial chromogenic oxidant have been performed by his research group for the first time. The integration of enzyme-based biosensors into CUPRAC reagents will provide important novelty studies. He has authored 79 peer-reviewed research articles and two chapters in international books. His h index is 25 with 1652 citations, according to Scopus 2023.