Bijendra Singh

Central University of Gujarat
India

Photogalvanic insolation device for accumulation, conversion & utilization solar radiation through Photoimgeable dyes fast green and Toludine blue with EDTA

Abstract:

Photoimgeble dye Fast green ,Toludine blue and reductant EDTA used for developed a new insolation and conversing system in this system EDTA playing role as a reducing agent for photoigeble dyes FG & TB in alkaline medium.Designed new system based on photochemical conversion for accumulated insolation and utilized of sun radiation through FG-TBEDTA.Effect of different parameter dye,rductant ,pH,light intensity,area of Pt electrode,i-v ,diffusion length was studied on this new system for electrical output.The photogalvanic performance for insolation is determined for this device shown CE,FF & storage capacity .Photopotential & Photocurrent generated by this system were 980.0mV & 116.0µA respectively.Photogalvanic device can be utilize in dark till 34 min.

Biography

Bijendra Singh has completed his PhD at the age of 35 years from Central University of Gujarat ,India and M.Phil. from School of Chemical Sciences, Central University of Gujarat ,India. He has published more than 25 papers in reputed journals.