

Utilisation of the Cygnus Atratus Alkaline Fuel Cell as an Electrochemical Reformer of Ethanol

Christopher Easom

Sheffield Hallam University, UK



Abstract

In collaboration with Cygnus Atratus Ltd., this project will investigate the feasibility of electrochemical reformation of ethanol within an already established fuel cell design. As assigned by Fair Air Ltd., Cygnus Atratus investigate the useful derivatives of ethanol as a renewable energy source. To achieve this outcome, manipulation of process variables such as; composition of electrolyte & catalyst, flow rates, temperature and applied voltage will be analysed experimentally. From the results obtained, suggestions can be made into the productivity and suitability of the design as a site of hydrogen production.

Biography

Christopher Easom is an Assistant professor working in Sheffield Hallam University. His field of interest is Chemical Engineering, Green Chemistry, Environmental Science

**Sheffield
Hallam
University**

9th World Congress on Green Chemistry and Green Energy, Prague, Czech Republic, 20-21 July, 2020

Citation: Christopher Easom, *Utilisation of the Cygnus Atratus Alkaline Fuel Cell as an Electrochemical Reformer of Ethanol*, Green Chemistry 2020, 9th World Congress on Green Chemistry and Green Energy, Prague, Czech Republic, 20-21 July, 2020, 24