Synthesis and Characterization of Polyimide PEM for High Temperature PEMFC

<u>최승혁</u>, 안재인, 최준석, 장의성, 서종철, 한학수* 연세대학교 (hshan@yonsei.ac.kr*)

The polyimide(PI) membranes have good thermal stability and good mechanical strength. In this work, to use PI membrane for PEMFC at high-temperature, new composited PI membrane was preparation. The PI membranes are synthesized from 4,4'-oxdiphtalic dianhydride, adipic dihydrazide and azelaic dihydrazide. And inorganic filler introduced as proton conductor. Chemical imidization introduced as imidization method and inorganic filler dispersed with ultra sonification.