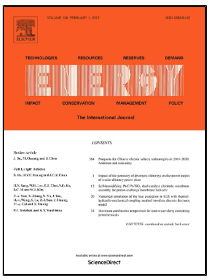
Accepted Manuscript



Comprehensive investigation of physicochemical and electrochemical properties of sulfonated poly (ether ether ketone) membranes with different degrees of sulfonation for proton exchange membrane fuel cell applications

Mohammad Javad Parnian, Soosan Rowshanzamir, Fatemeh Gashoul

PII:	S0360-5442(17)30326-2
DOI:	10.1016/j.energy.2017.02.143
Reference:	EGY 10436
To appear in:	*Energy*
Received Date:	01 November 2016
Revised Date:	21 February 2017
Accepted Date:	25 February 2017

Please cite this article as: Mohammad Javad Parnian, Soosan Rowshanzamir, Fatemeh Gashoul, Comprehensive investigation of physicochemical and electrochemical properties of sulfonated poly (ether ether ketone) membranes with different degrees of sulfonation for proton exchange membrane fuel cell applications, *Energy* (2017), doi: 10.1016/j.energy.2017.02.143

Research highlights

- Investigation of effect of different sulfonation reaction times on PEEK properties
- Preparation of SPEEK membranes with different degrees of sulfonation
- Investigation of thermal and mechanical properties of different SPEEK membranes
- Study of effect of DS on electrochemical and chemical properties of the membranes
- Proton conductivity measurements in different temperatures and relative humidities