



IUMRS-ICEM 2018

AUGUST 19(SUN.) - 24(FRI.), 2018 / DAEJEON, KOREA

Session Title	Fuel Cell & Electrolyzer Materials I	Session Code	Tu-J1
Date and Time	2018-08-21 / 10:30 - 12:30		
Place	Room J		
Session Chair	TBA		

Tu-J1-1

10:30 - 10:45

Experimental Analysis on Operation Conditions of Open Cathode Polymer Electrolyte Fuel Cells

Beom Jun Kim¹, Jun-Young Kang², Jeong-Wook Yang², and Young Gi Yoon¹
¹KIER, Korea, ²Chonbuk Nati'l Univ., Korea

Tu-J1-2

10:45 - 11:15

[Invited] First-Principles Computational and Machine Learning Approach to Design Highly Functional Catalysts Materials for Fuel Cells

Byungchan Han, Seunghyo Noh, and Jeemin Hwang
Yonsei Univ., Korea

Tu-J1-3

11:15 - 11:30

Theoretical Insights on the Electrode-Electrolyte Microstructure in the Proton Exchange Membrane Fuel Cells

Chi-Young Jung, Hyunguk Choi, Suwon Choi, Younggi Yoon, and Tae-Young Kim
KIER, Korea

Tu-J1-4

11:30 - 11:45

Design of Promotion Effects of CeO_x on Pt Electrodes in PEFCs

Toshiyuki Mori¹, Shipra Chauhan¹, Akira Suzuki¹, Shunya Yamamoto², Tomohiro Kobayashi³, and Noriko Isaka¹
¹NIMS, Japan, ²Nat'l Inst. for Quantum and Radiological Sci. and Tech., Japan, ³RIKEN, Japan

Tu-J1-5

11:45 - 12:15

[Invited] Phase Transformation of Metal Phosphide Nanoparticles for Hydrogen Evolution Reaction Catalysis

Don-Hyung Ha
Chung-Ang Univ., Korea

Tu-J1-6

12:15 - 12:30

A Technological and Economic Points of Power to Gas Project

WONCHUL CHO, HYUN-SEOK CHO, SANG-KYUNG KIM, and CHANG HEE KIM
KIER, Korea