Frontier Chemistry Center
フロンティア化学教育研究センター 講演会

演 題：**R&D activity of KERI for applying anodizing technology to environment**

講 師：**Prof. Dae-Yeong Jeong**

Korea Electrotechnology Research Institute

日 時：2013 年 5 月 9 日（木）16:00~17:00

場 所：工学部材料・化学棟大会議室（MC526）

共 催：電気化学会・表面技術協会・腐食防食学会各北海道支部

要旨：

We have developed the anodizing technologies to apply them to environment. One is to develop new cheap composite membranes for MF & UF, which are anodic aluminum oxide membranes with uniform-size pores of 10 to 250 nm, laminated with aluminum or PTFE supporters. Their water permeability was of 3,200~200 L/(m^2·h·bar), which are higher than those of polymeric membranes recently developed by more than three times. However, their maximum transmembrane pressure lied in 0.5~4 bar, and needs a little enhanced. Another is to develop superhydrophobic surfaces by using a lithography technique for microstructure and anodizing for nanostructure.

本講演は、大学院総合化学院『化学研究先端講義／総合化学特別研究第二』の一部として認定されています。

連絡先：工学研究院物質化学部門　幅 崎 浩 樹（内線：6575）