

### 3D structured polymer templates for electrochemical electrode applications

문준혁\*

서강대학교 화공생명공학과

(junhyuk@sogang.ac.kr\*)

This talk covers the fabrication of 3D pores by holographic lithography and their application as electrode materials. Holographic lithography was applied to the fabrication of 3D porous templates. Typically, titania precursor was applied to grow a shell on the surface of the template. The 3D continuous porous structure was obtained after removal of the template by calcination. We evaluated the performance of the holographically-designed electrodes as possible candidates for use in dye solar cells.