



Contribution ID : 151

Type : Oral

Functional 3D structures made by additive manufacturing

Thursday, 6 September 2018 09:40 (20)

Additive manufacturing (3D printing) provides a new freedom in materials design. In our recent research work, metallic and ceramic structures have been prepared by different 3D printing techniques including selective laser melting, extrusion and digital light projection. X-ray CT and Neutron CT has been used for structural examination. In combination of wet-chemical processes (thermal decomposition and electroplating), catalyst materials have been coated on the surface of 3D structures for various applications. High oxygen evolution reaction (OER) performance has been observed indicating the great potential of 3D printing in fabrication of highly efficient catalyst electrode.

Primary author(s) : Prof. DING, Jun (National University of Singapore)

Presenter(s) : Prof. DING, Jun (National University of Singapore)

Session Classification : Speaker Sessions and Seminars

Track Classification : Material Science