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## Functional 3D structures made by additive manufacturing

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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.

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