

Title (en)

METHOD OF MAKING ELECTROCHEMICAL REACTORS

Title (de)

VERFAHREN ZUR HERSTELLUNG ELEKTROCHEMISCHER REAKTOREN

Title (fr)

PROCÉDÉ DE FABRICATION DE RÉACTEURS ÉLECTROCHIMIQUES

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Abstract (en)

[origin: CN113302771A] Herein disclosed is a method of making an electrochemical reactor, which comprises a) depositing a composition on a substrate to form a slice; b) drying the slice using a noncontact dryer; c) sintering the slice using electromagnetic radiation (EMR), wherein the electrochemical reactor comprises an anode, a cathode, and an electrolyte between the anode and the cathode. In an embodiment, the electrochemical reactor comprises at least one unit, wherein the unit comprises the anode, the cathode, the electrolyte and an interconnect and wherein the unit has a thickness of no greater than 1 mm. In an embodiment, the anode is no greater than 50 microns in thickness, the cathode is no greater than 50 microns in thickness, and the electrolyte is no greater than 10 microns in thickness.

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