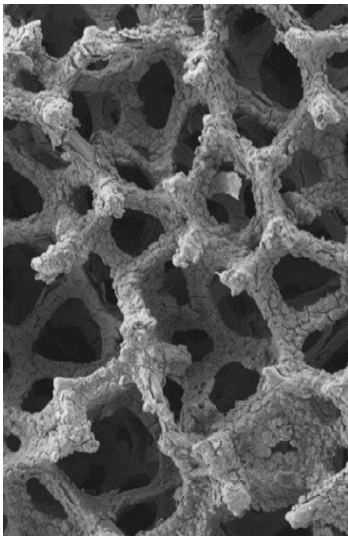
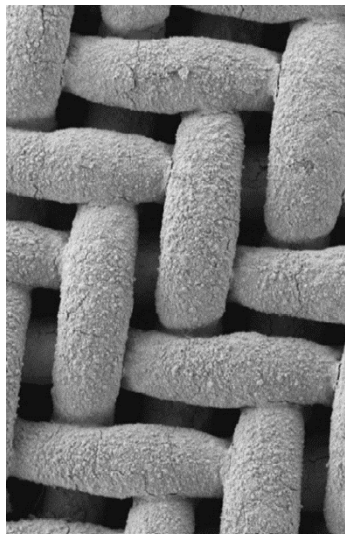


Methods for electrocatalysts for hydrogen evolution and oxidation reactions



Nickel-Molybdenum catalysts on Ni foam



Nickel-Molybdenum catalysts on Ni mesh (SEM images).

Ref. Nr

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KeywordsElectrodeposition;
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Description

The present invention relates to method for the synthesis of a transition metal catalyst consisting of electrodeposition on many conductive substrate electrodes from an electrolyte solution comprising at least one transition metal precursor. The present invention further relates to a transition metal catalyst characterised in that it is stable for at least 30 minutes at a current density of at least 400 A/cm² on the substrate electrode.

Advantages

- One-step electrodeposition
- transition metal catalyst is characterized that operate at high current density and with good stability

Applications

- production of highly active and stable nickel molybdenum catalysts
- hydrogen evolution and oxidation reactions