

Title (en)

FUNCTIONALISED POROUS MATERIAL AND USE AS A PSEUDO-SUPERCAPACITOR ELECTRODE

Title (de)

FUNKTIONALISIERTES PORÖSES MATERIAL UND VERWENDUNG ALS EINE PSEUDO-SUPERKONDENSATORELEKTRODE

Title (fr)

MATÉRIAU POREUX FONCTIONNALISÉ ET UTILISATION COMME ÉLECTRODE DE PSEUDO-SUPERCONDENSATEUR

Publication

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Application

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Abstract (en)

[origin: WO2020120922A1] The invention relates to a functionalised porous material (1) comprising a substrate (2) having a microporosity and/or a mesoporosity and redox groups covalently grafted to the surface of the substrate (2), forming a functionalisation layer (3), said material (1) being characterised in that the redox groups are covalently grafted in a monolayer to the surface of the substrate (2), so that the functionalisation layer (3) is a monolayer with redox terminations that is dense and flexible. The invention also relates to the use of such a material (1) as a pseudo-supercapacitor electrode.

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