

Title (en)

PARTLY CRYSTALLINE MESOSTRUCTURED MATERIAL CONSISTING OF CERIUM, ZIRCONIUM OR TITANIUM OXIDE AND COMPRISING AN ELEMENT IN MIXED CRYSTAL IN SAID OXIDE

Title (de)

TEILKRISTALLINES MESOSTRUKTURIERTES MATERIAL BESTEHEND AUS CEROXID, ZIRKONOXID UND TITANOXID UND EINEM ELEMENT IN FESTER LÖSUNG IN DIESEM OXID

Title (fr)

MATERIAU MESOSTRUCTURE PARTIELLEMENT CRISTALLIN CONSTITUE D OXYDE DE CERIUM, DE ZIRCONIUM OU DE TITANE ET COMPRENANT UN ELEMENT EN SOLUTION SOLIDE DANS LEDIT OXYDE

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Application

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Abstract (en)

[origin: WO03084870A2] The invention concerns a partly crystalline mesostructured material, which essentially consists on a compound selected among cerium oxide, zirconium oxide, titanium oxide or a mixture of said compounds, characterized in that it comprises at least an element M in mixed crystal in said oxide. Said material is obtained by a method which consists in: (a) contacting a starting partly crystalline mesostructured material with a solution of the element M which has a concentration of said element of not more than 2 mole/l; then (b) calcining the material obtained after contacting with said solution at a temperature not exceeding 500 DEG C, steps (a) and (b) being repeated, if required, until a material having the desired content of element M is obtained. The material can be used as catalyst.

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