

Title (en)
CARBIDE AND OXYCARBIDE BASED COMPOSITIONS AND NANORODS

Title (de)
AUF KARBID UND OXYKARBID BASIERTE ZUSAMMENSETZUNGEN UND NANORÖHRCHEN

Title (fr)
COMPOSITIONS ET NANOTUBES A BASE DE CARBURE ET D'OXYCARBURE

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Abstract (en)
[origin: WO0041808A1] Compositions including oxycarbide-based nanorods and/or carbide-based nanorods and/or carbon nanotubes bearing carbides and oxycarbides and methods of making the same are provided. Rigid porous structures including oxycarbide-based nanorods and/or carbide based nanorods and/or carbon nanotubes bearing carbides and oxycarbides and methods of making the same are also provided. The compositions and rigid porous structures of the invention can be used either as catalyst and/or catalyst supports in fluid phase catalytic chemical reactions. Processes for making supported catalyst for selected fluid phase catalytic reactions are also provided. The fluid phase catalytic reactions catalyzed include hydrogenation, hydrodesulfurisation, hydrodenitrogenation, hydrodemetallisation, hydrodeoxygenation, hydrodearomatization, dehydrogenation, hydrogenolysis, isomerization, alkylation, dealkylation and transalkylation.

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