

Title (en)

CATALYTIC MATERIALS FOR WASTEWATER TREATMENT

Title (de)

KATALYTISCHE MATERIALIEN ZUR ABWASSERBEHANDLUNG

Title (fr)

MATÉRIAUX CATALYTIQUES DESTINÉS AU TRAITEMENT D'EAUX USÉES

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Application

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Abstract (en)

[origin: WO2019220114A1] The present invention relates to catalytic materials and methods for treating a wastewater stream using the catalytic materials. In particular, the present invention relates to materials and methods for reducing organic contaminants in wastewater streams. We describe a method for treating a waste stream comprising the steps of providing a catalytic material; supplying a waste stream comprising an organic compound which is a liquid or dissolved in a solvent and contacting the catalytic material with the waste stream; supplying oxygen to the waste stream; and oxidising the organic compound at the surface of the catalytic material with simultaneous reduction of oxygen. Novel catalytic materials and processes for preparing the catalytic materials and devices which comprise the catalytic materials are also disclosed.

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