

Title (en)

MONOLITHIC NANOPARTICLE METAL OXIDES WITH MULTISCALE POROSITY

Title (de)

MONOLITHISCHE NANOPARTIKELMETALLOXIDE MIT MULTISKALIGER POROSITÄT

Title (fr)

METALLO-OXYDES NANOPARTICULAIRES MONOLITHIQUES A POROSITE MULTI-ECHELLES

Publication

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Application

**EP 21777536 A 20210916**

Priority

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- EP 2021075529 W 20210916

Abstract (en)

[origin: WO2022058449A1] Disclosed is a method for preparing a monolith with multiscale porosity, the monolith comprising a silicon oxide matrix, and nanoparticles of a metal oxide M, M representing a metal or a metalloid chosen from the following metals and metalloids: Cr, Co, Mn, Ni, Ce, V, Y, W, Nb, Mo, Fe, Zn, Ta, Sn, Cd, Cu and In, the method comprising a step of emulsifying an oily phase in a homogeneous acidic aqueous phase, the aqueous phase comprising a cationic surfactant, at least one metal oxide precursor metal salt and one silica precursor, a step of polycondensation, a step of eliminating the oily phase by treatment with dichloromethane, and calcination taking place in two steps.

IPC 8 full level

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C-Set (source: EP)

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Citation (search report)

See references of WO 2022058449A1

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