

## Abstract of Presentation

Name:

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Presentation Title:

Ordered Porous Materials as heterogenous catalysts and adsorbants for their use in production of cleaner and more sustainable fuels.

Abstract :

The rapid depletion of the proved oil reserves as well as the astringent environmental regulations are major forces to improve the quality and efficiency of fuel production. On this regard, zeolites and ordered porous materials are one of the key-stones in the production of advanced fuels from fossil resources.

Then, several actions need to be taken: 1) New catalysts able to treat poor quality feedstocks and new sources of oil (mostly coming from biomass) in the actual refineries. 2) Natural gas production needs to be improved. 3) Production of automotive fuels through Fischer-Tropsch process must reach commercial application. 4) Rational uses of hydrocarbons for production of chemicals must be achieved.

The development of new catalysts based on well designed zeolites or ordered porous material could provide important advantages in accomplishing these targets.

The research activities on these subjects carried out at the Institute of Chemical Technology (Valencia) and other Spanish Centers will be presented.