

ΠΑΝΕΠΙΣΤΗΜΙΟ ΙΩΑΝΝΙΝΩΝ

ΤΜΗΜΑ ΧΗΜΕΙΑΣ

DEPARTMENT OF CHEMISTRY

UNIVERSITY OF IOANNINA



Prof. Maria Louloudi

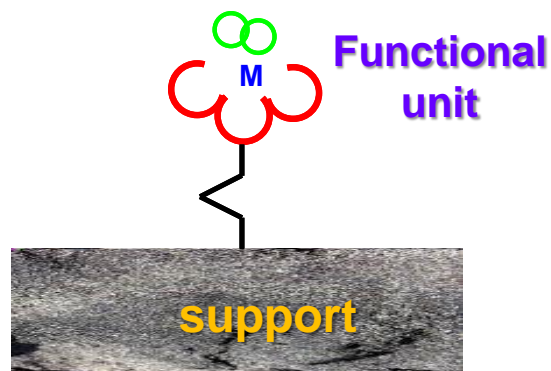
***Lab. of Biomimetic Catalysis &
Hybrid Materials***

<http://catalysis.chem.uoi.gr>

Synthesis/Surface Modification/Hybrid Materials



INSTITUTE OF
MATERIALS SCIENCE
AND COMPUTING



SiO₂-Ox-50



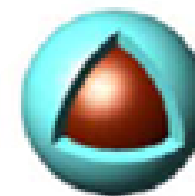
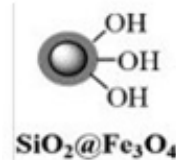
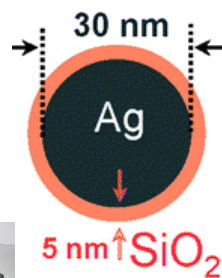
SBA-1



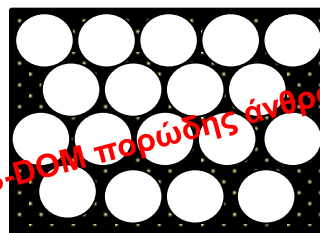
MCM-41



Core-Shell



Activated Carbon

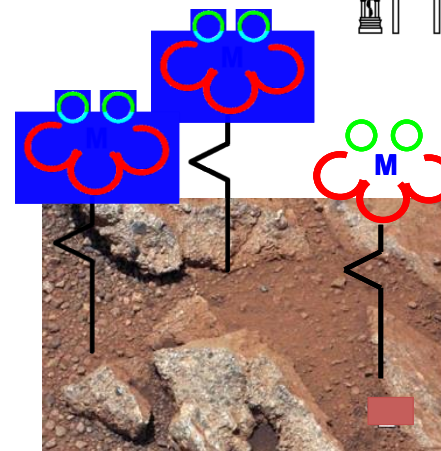


3-DOM πορώδης άνθρακας



Pyrolytic Carbon
(tires, sugarcane)
(biochar)

Functional Materials



Catalytic Oxidation of Alkenes with H_2O_2



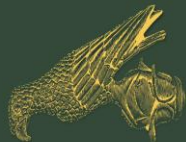
Catalytic Decomposition of Pollutants



Catalytic H_2 -production from formic acid



Antioxidants





Theoretical studies on surfacial phenomena,

key parameters,

active intermediates,

activity....



Need for solid state NMR measurements/study

