

METAL NANOPARTICLES CONFINED IN CARBON NANOTUBES: TOWARDS HIGHLY SELECTIVE CATALYSTS

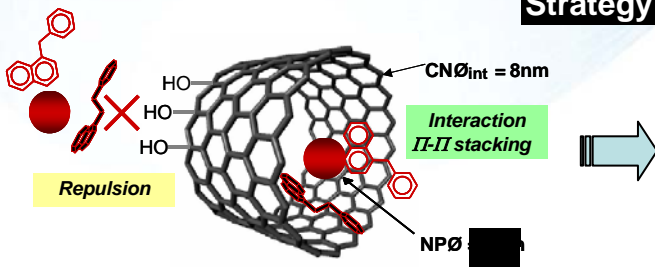
Montserrat Gómez

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LHFA, UMR 5069 CNRS, Université Paul Sabatier, Toulouse
gomez@chimie.ups-tlse.fr

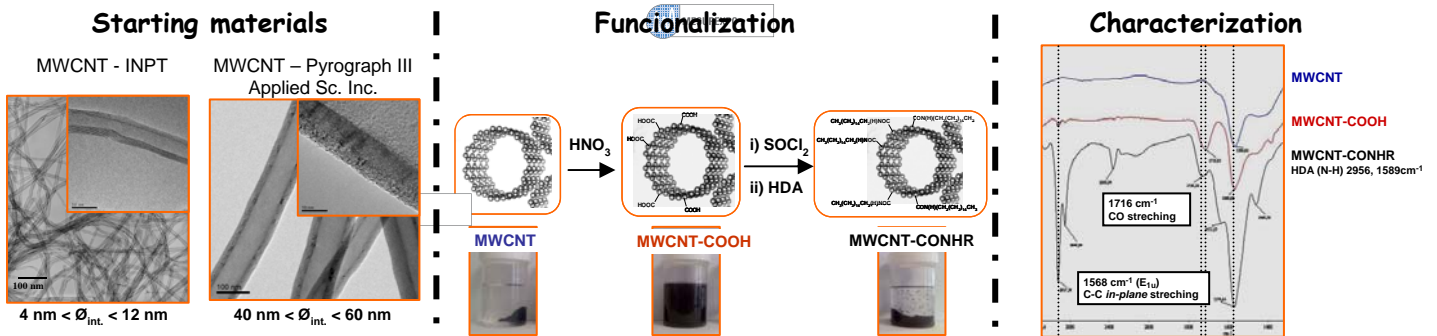


Strategy for confinement

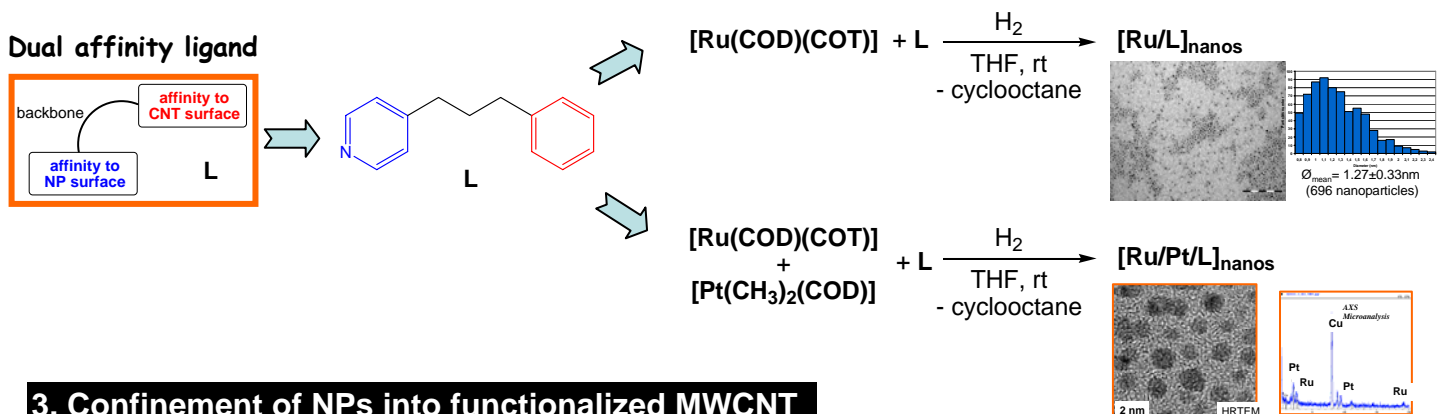


1. MWCNT functionalization
2. Metallic NPs containing "dual affinity" ligands
3. Confinement of NPs into MWCNT
4. Confinement effect in catalysis

1. MWCNT functionalization: synthesis and characterization

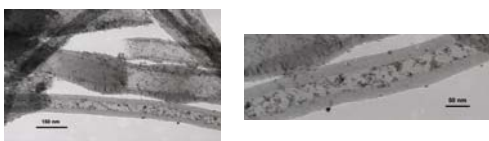


2. Metallic nanoparticles stabilized by "dual affinity" ligands



3. Confinement of NPs into functionalized MWCNT

Bimetallic Ru/Pt NPs
confined into MWCNT-CONHR



4. ... and now ready
for catalysis

Production: 1 Poster, 1 oral communication, 2 papers in preparation