MOF synthesis

NP synthesis

NP support

MOF O$_2$ binding

Application

Precursor 1 synthesis → Precursor 2 synthesis → MOF synthesis

Gold, palladium, silver

Best result nanoparticles

342 nm irradiation

Plasmonic region irradiation

Zn

Zn

Zn

N–Zn Zn — N

^{3}O$_2$

^{1}O$_2$