



Showcasing research from Professor Leila Negahdar's laboratory, School of Chemistry, University College Dublin, Dublin, Ireland. Art by the team of INMYWORK Studio.

Multifunctionalized zirconium-based MOF as a novel support for dispersed copper: application in CO<sub>2</sub> adsorption and catalytic conversion

A novel multifunctional NU-1000 MOF-Cu material is designed for CO<sub>2</sub> adsorption and catalytic conversion. The copper based catalyst is shown to be active in CO<sub>2</sub> electroreduction and has excellent selectivity towards methanol formation under mild hydrogenation process.

Art by the team of INMYWORK Studio (<https://inmywork.com>).

As featured in:



See Concepción Domingo, Leila Negahdar *et al.*, *J. Mater. Chem. A*, 2024, 12, 21758.