



Showcasing research from Dr Abánades Lázaro's group at the Institute of Molecular Science of the University of Valencia, and Dr Matthias Vandichel at the University of Limerick.

Multivariate modulation of Zr_6 UiO-66 for enhanced cooperative CO_2 adsorption through defect multi-functionalisation

A powerful strategy to enhance CO_2 capture by combining pore defect engineering with chemical heterogeneity in a single synthetic step. The approach offers a versatile platform for tuning host-guest interactions, which could be applied across a broad range of applications, from gas separation to catalysis and drug delivery.

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See Matthias Vandichel, Isabel Abánades Lázaro *et al.*, *Mater. Horiz.*, 2025, **12**, 5689.