

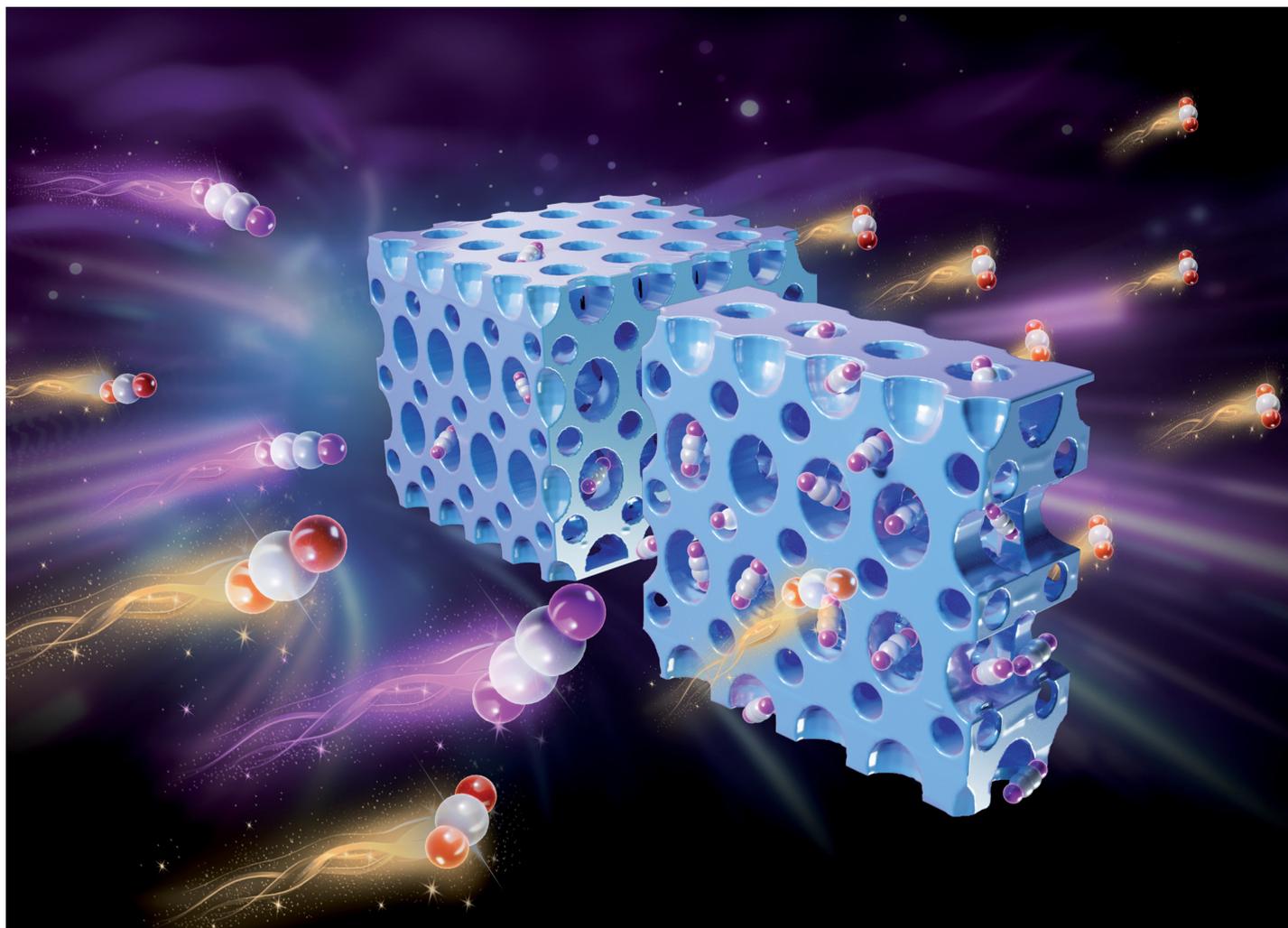
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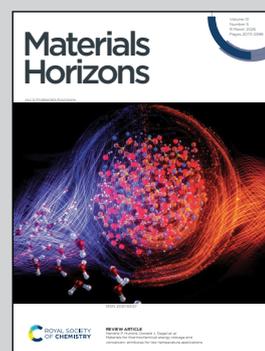
Showcasing research from Professor Rongsheng Cai and Dr Xuzhi Hu's group at State Key Laboratory of Solid Lubrication, Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, China

Structural dimensionality governing CO₂/C₂H₂ separation in **MWW** zeolites

Structural dimensionality provides a new lever for molecular separation. Using MWW zeolites, this work shows that exfoliated 2D monolayers outperform their 3D counterparts in CO₂/C₂H₂ separation despite identical topology. Reduced diffusion barriers and modified adsorption landscapes enhance selectivity, establishing dimensionality engineering as an independent design axis for advanced porous adsorbents and energy-efficient gas separation technologies.

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As featured in:



See Bingwen Li, Xuzhi Hu, Rongsheng Cai *et al.*, *Mater. Horiz.*, 2026, **13**, 2267.