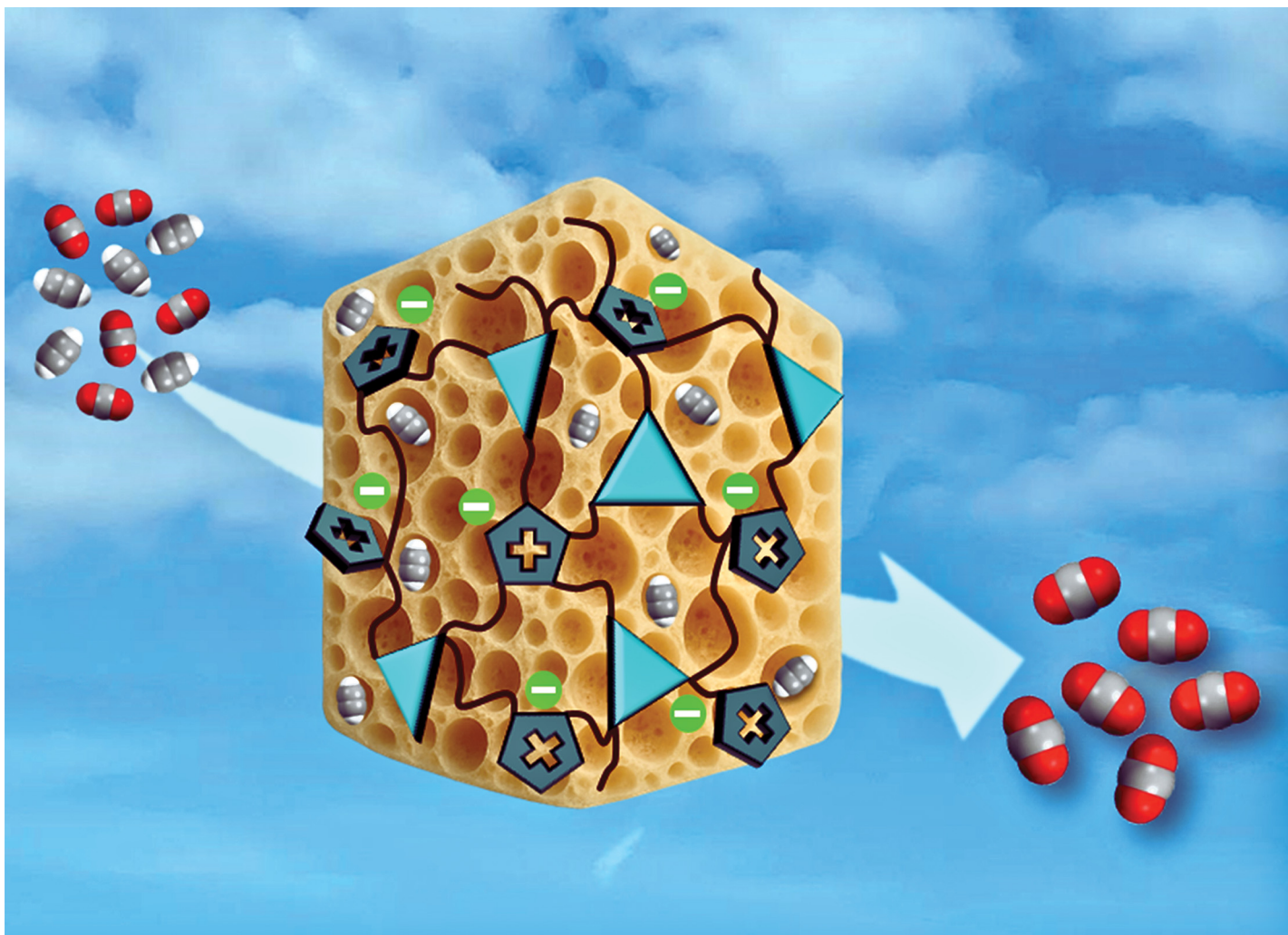




Showcasing research from Professor Soumya Mukherjee's laboratory, Department of Chemical Sciences and The Synthesis and Solid State Pharmaceutical Centre (SSPC), University of Limerick, Ireland.

An ionic ultramicroporous polymer with engineered nanopores enables enhanced acetylene/carbon dioxide separation

Engineered nanopores within ionic ultramicroporous polymers enable selective capture of acetylene (C_2H_2) over carbon dioxide (CO_2). Extending the cationic framework doubles the C_2H_2/CO_2 selectivity, offering a promising route for efficient light hydrocarbon separation.

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As featured in:



See Matthias Vandichel, Soumya Mukherjee *et al.*, *Chem. Commun.*, 2025, **61**, 6466.