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2015-54/15 Hierarchically Porous Structures

A hierarchical porous framework ...

... with interconnected micro- and mesopores (analogous to a tree root system) has a unique structural advantage for CO_2 capture. The larger mesopores can substantially increase the accessibility of the micropores to guest molecules through enhanced diffusion. In their Communication on page 4582 ff., S. Dai and co-workers introduce a soft-chemistry synthetic strategy based on a Friedel–Crafts alkylation for the creation of such porous phenolic polymers.

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