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Mechanistic understanding ...

... of hydrocarbon-pool (HP) chemistry in the methanol-to-olefins conversion over zeolites is challenging. In their Communication on page 2507 ff., F. Deng, J. Xu, and co-workers report the direct detection of supramolecular reaction centers, composed of organic hydrocarbon-pool species and the inorganic zeolite framework, by solid-state NMR spectroscopy. The interaction/proximity between the hydrocarbon-pool species and the Brønsted acid/base sites of the zeolite determines the reactivity of the hydrocarbon-pool species.

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