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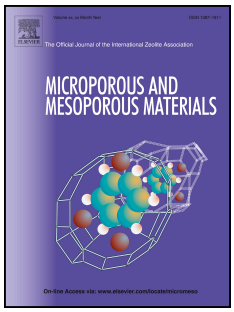

Selective hydrogenation of alkenes using ZIF-67 shell membrane deposited on platinum/alumina core catalyst

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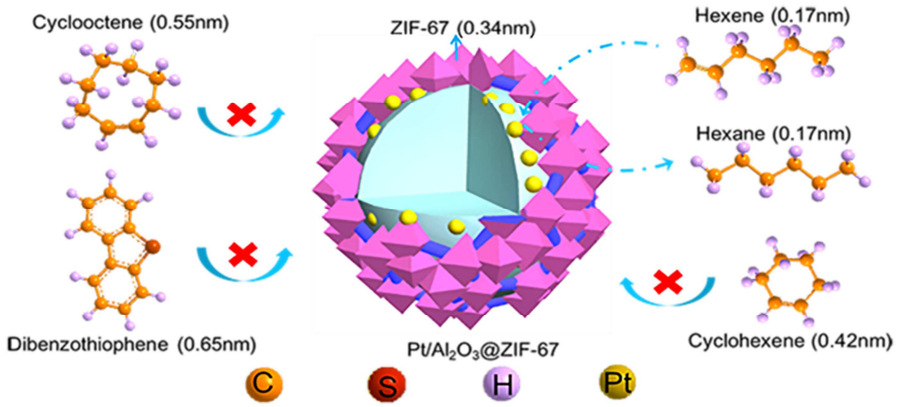

A new core-shell catalyst was prepared by coating a platinum/alumina (Pt/Al_2O_3) core with a ZIF-67 shell membrane. The Pt/Al_2O_3@ZIF-67 catalyst exhibited excellent hydrogenation selectivity, long term stability and sulfur resistance.