

**Dicyclopentadiene** / **Metal/MCM-41**  
 \_\_\_\_\_, \* , , , 1, 1, 2  
 ; 1 ; 2  
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Dicyclopentadiene (DCPD) / tricyclopentadiene (TCPD)  
 tetracyclopentadiene (TeCPD)  
 ALD metal/MCM-41 DCPD /  
 Metal/MCM-41 N<sub>2</sub>-adsorption, XRD, NH<sub>3</sub>-TPD Py-IR  
 MCM-41 DCPD /