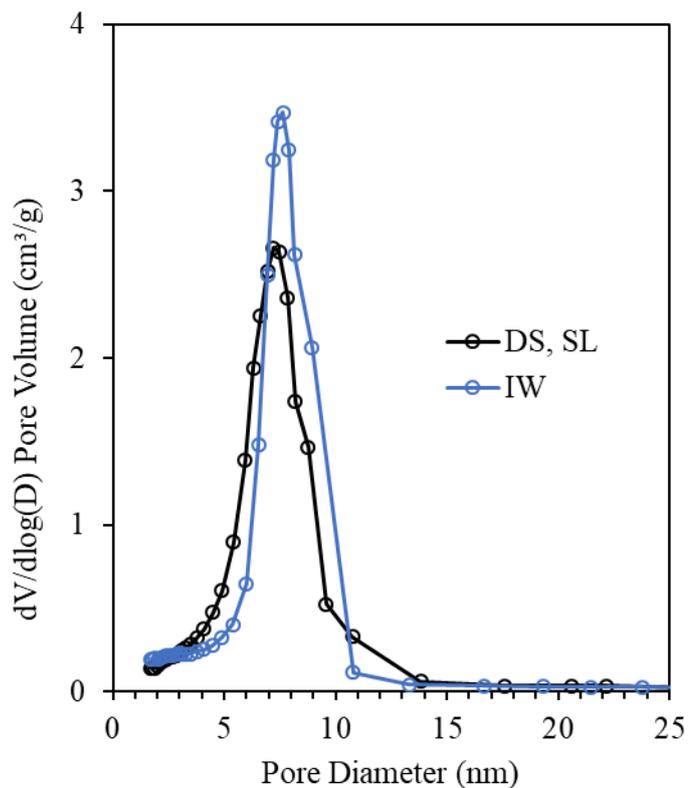


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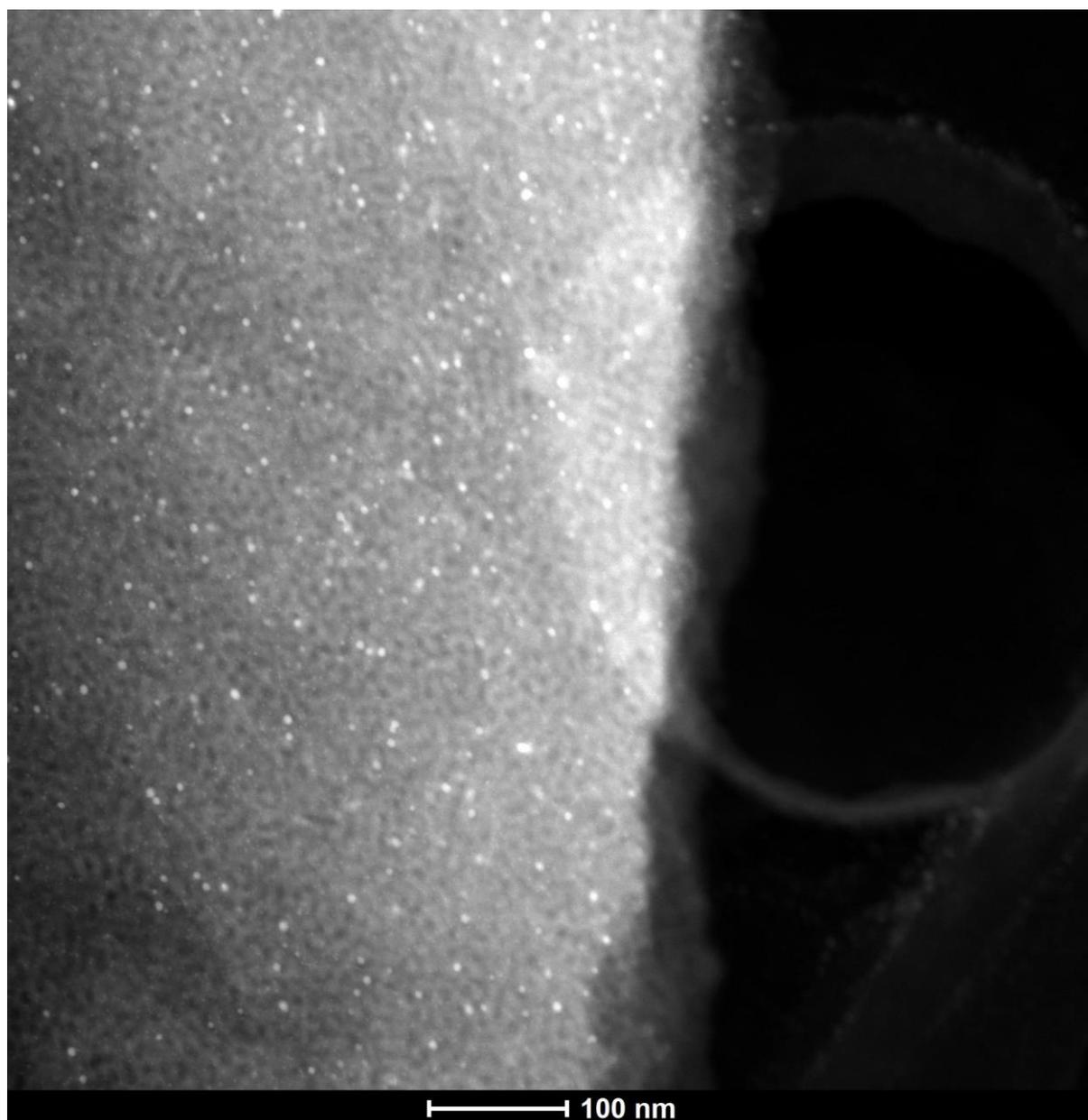


**Figure S1.** Pore size distributions for OMC templates used to prepare Pd/OMC catalysts as indicated.

**Table S1.** Nitrogen physisorption data of the OMC templates used to prepare the IW-Pd, DS-Pd and SL-Pd catalysts.

template	SSA (m <sup>2</sup> /g)	V <sub>P</sub> (cm <sup>3</sup> /g)	V <sub>micro</sub> (cm <sup>3</sup> /g)	D <sub>P</sub> (nm)
Template for IW-Pd	589	0.58	0.055	7.6
Template for DS-Pd & SL-Pd	611	0.64	0.053	7.2

SSA: Specific surface area; V<sub>P</sub>: Pore volume; V<sub>micro</sub>: Micropore volume; D<sub>P</sub>: Pore diameter



*Figure S2. Additional HAADF image of the catalyst IW-Pd in which the position of the intermediate particles predominantly in the mesopores can be seen.*