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Supporting information



S1. SAXS scattering curves (black squares) and mathematical fits (red line) of dissolved CMS5 (left graph) and CMS10 (right graph) polymers in ethanol (1 g/L). The intensity is plotted against the scattering vector *q*. A spherical shape, a homogeneous electron density and a Schulz–Zimm size distribution are assumed. The polymer with the larger hyperbranched polyglycerol core CMS10 shows a larger particle mean diameter (8.3 nm) than CMS5 (6.6 nm).

S2: Influence of relative humidity during dip-coating on pore size and ordering



S2. SEM images (A) and corresponding FFT (B) of CMS5-templated mesoporous TiO_2 films deposited at different relative humidities. All films were calcined at 400 °C. Dip-coating was performed at 25 °C and at relative humidity ranging from 12.5% to 80% (from left to right). The differences in r.h. do not result in significant changes in pore size or ordering.