Supporting information

One-pot Synthesis of Polyhedron-like Hollow Aluminosilicate with Mesoporous Shells

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**Figure 1s.** EDX element mapping of aluminum (red) and silica (yellow) of sample SiAl$_{50}$-0.7.

**Figure 2s.** The low-angle XRD pattern of sample SiAl$_{50}$-0.
Figure 3s. TEM image of aluminosilicate sample synthesized with 0.85 mmol NaO (0.75 mmol from NaOH + 0.1 mmol from NaAlO$_2$). Circles indicate hollow particles.