Supplementary Materials

for

Effect of Polyelectrolyte Mono and Bilayer Formation on the Colloidal Stability of Layered Double Hydroxide Nanoparticles

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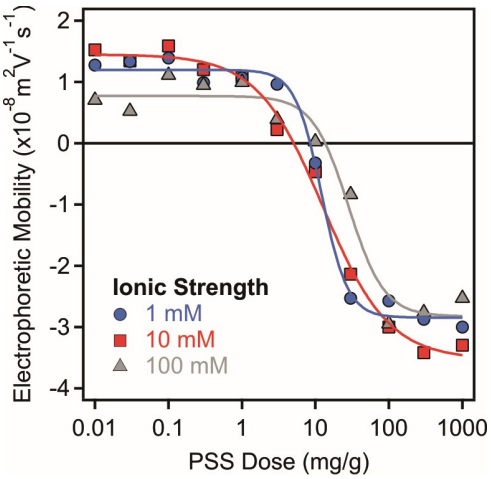

Figure S1. Electrophoretic mobilities of LDH particles as a function of the PSS dose at 1 mM (circles), 10 mM (squares) and 100 mM (triangles) ionic strengths adjusted by NaCl. The measurements were carried out at 10 mg/L particle concentration. The mg/g unit on the x-axis indicates mg PSS per one gram of LDH. The lines serve to guide the eyes.

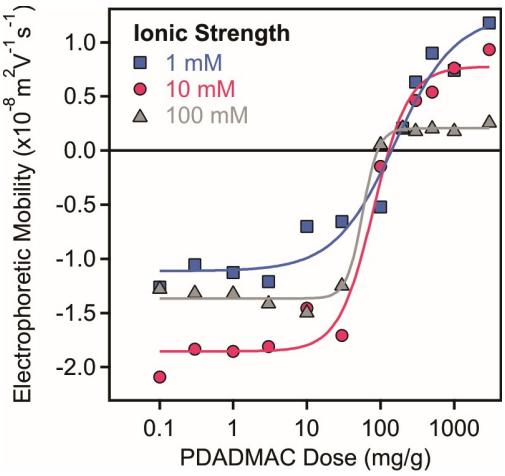

Figure S2. Electrophoretic mobilities of LDH-PSS particles as a function of the PDADMAC dose at 1 mM (squares), 10 mM (circles) and 100 mM (triangles) ionic strengths adjusted by NaCl. The measurements were carried out at 10 mg/L particle concentration. The mg/g unit on the x-axis indicates mg PDADMAC per one gram of LDH-PSS. The lines serve to guide the eyes.

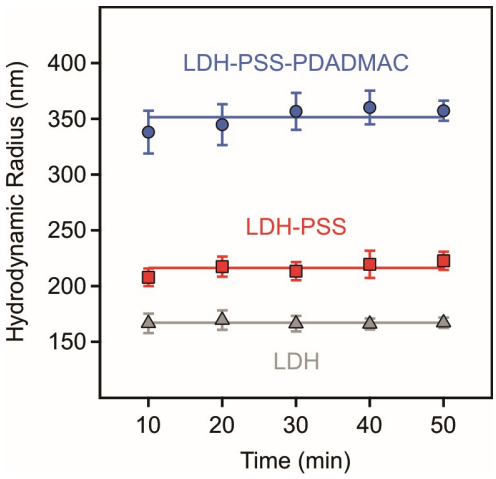

Figure S3. Hydrodynamic radii of bare LDH (triangles), LDH-PSS (squares) and LDH-PSS-PDADMAC (circles) particles versus time at 3 mM ionic strength. Each data point is the average of 10 hydrodynamic radii measured in time-resolved DLS experiment. A PSS dose of 100 mg/g and PDADMAC of 300 mg/g was applied in the composite particles. The solid lines are linear fits, where the slope was set to zero.