



Supplementary Figure 1. The nanostructure on the strut surface of TCP scaffolds induced by the polydopamine treatment under different conditions in Tris-HCl solution(a: 4mg/mL, pH=8.0, 4days, b: 2mg/mL, pH=8.0, 4days, c: 6mg/mL, pH=8.0, 4days, d: 4mg/mL, pH=8.0, 2days, e: 4mg/mL, pH=9.5, 4days, f: 4mg/mL, pH=10, 4days, g: 4mg/mL, pH=8.0, 4days, 60 °C, h: 4mg/mL, pH=8.0, 37 °C hydrothermal condition, 4 days i: 4mg/mL, pH=8.0, 60 °C hydrothermal condition, 4 days). The typical nanostructure with uniform nanolayer was achieved under the condition of 4 mg/mL of dopamine concentration, pH 8.0 and 4 days of reaction time (a).