

Supporting Information

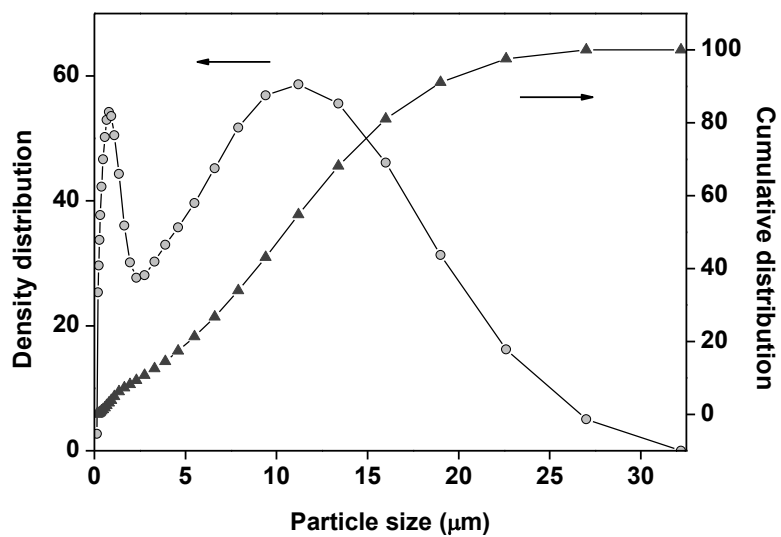
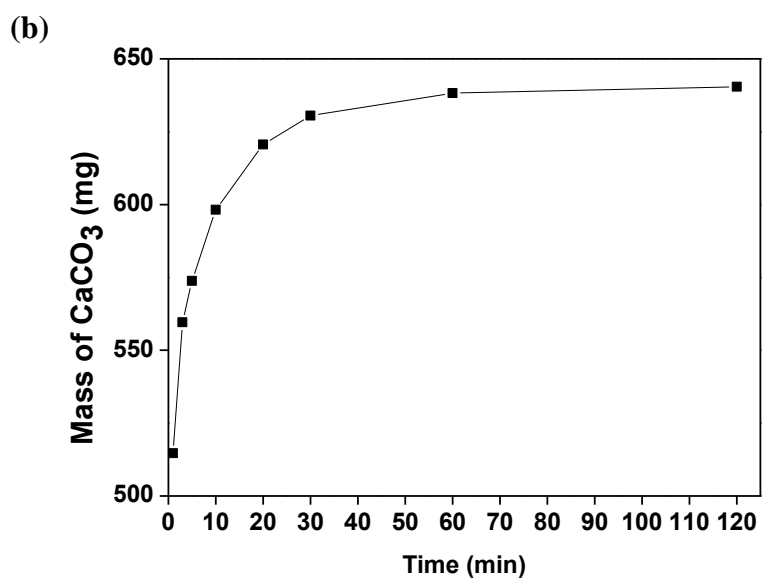
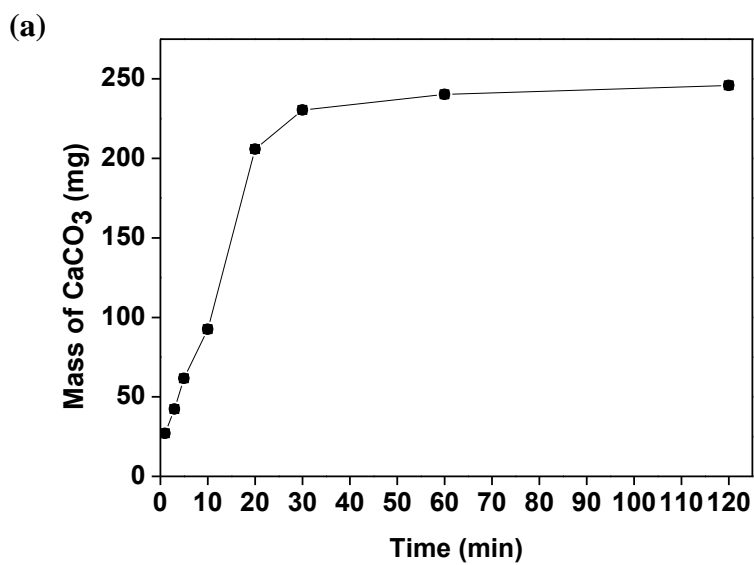


Figure S1. DLS analysis of prepared CaCO_3 . The diameter of CaCO_3 particles in aqueous solution showed two representative size area.



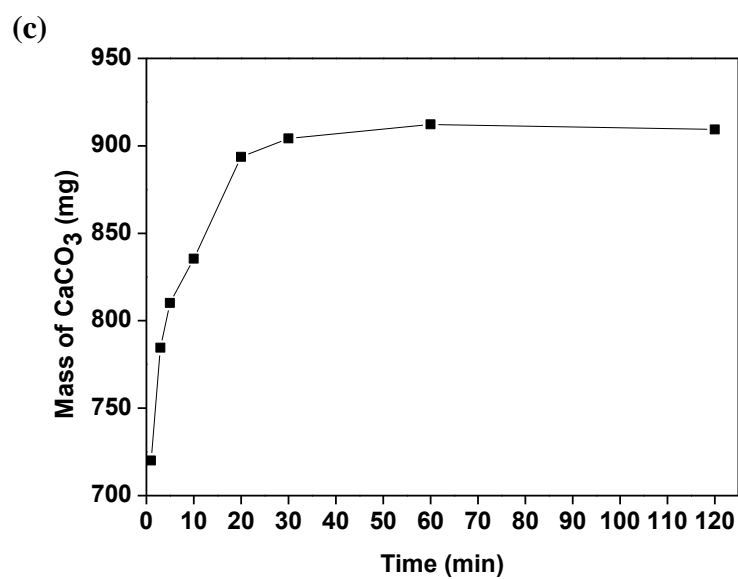


Figure S2. The relationship between the amount of CaCO₃ and time of CO₂ supply at different Mg-APTES concentration: (a) 10 mg/ml, (b) 30 mg/ml, and (c) 50 mg/ml.