Electronic Supplementary Material (ESI) for Nanoscale.

Supporting Information

Synthesis of Highly Uniform Cu_2O Spheres by a Two-step Approach and their Assembly to Form Photonic Crystals with Brilliant Color

Xin Su, Jie Chang, Suli Wu*,Bingtao Tang and Shufen Zhang

State Key Laboratory of Fine Chemicals, Dalian University of Technology, Dalian, P.R.China

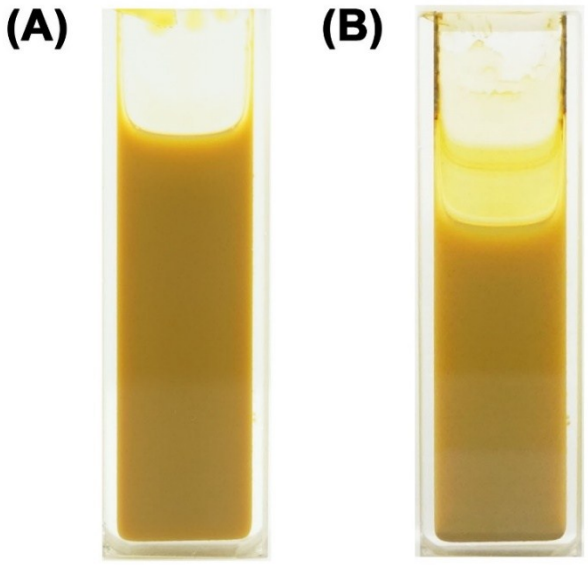

Figure S1. Digital images of Cu_2O dispersion in ethanol. (a) just after preparation; (b) stored in ambient environment for 5 days

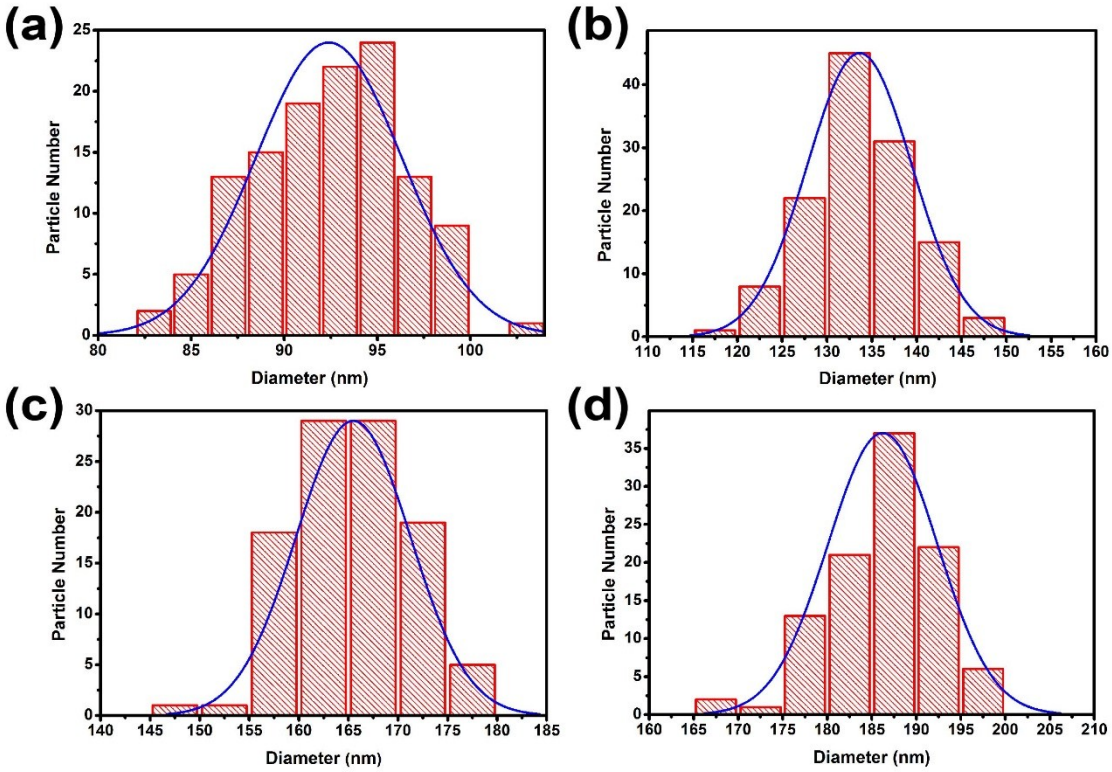

Figure S2. Size distribution of monodisperse Cu_2O spheres in different diameters.(a) 93 nm; (b) 133 nm; (c) 165 nm; (d) 187 nm

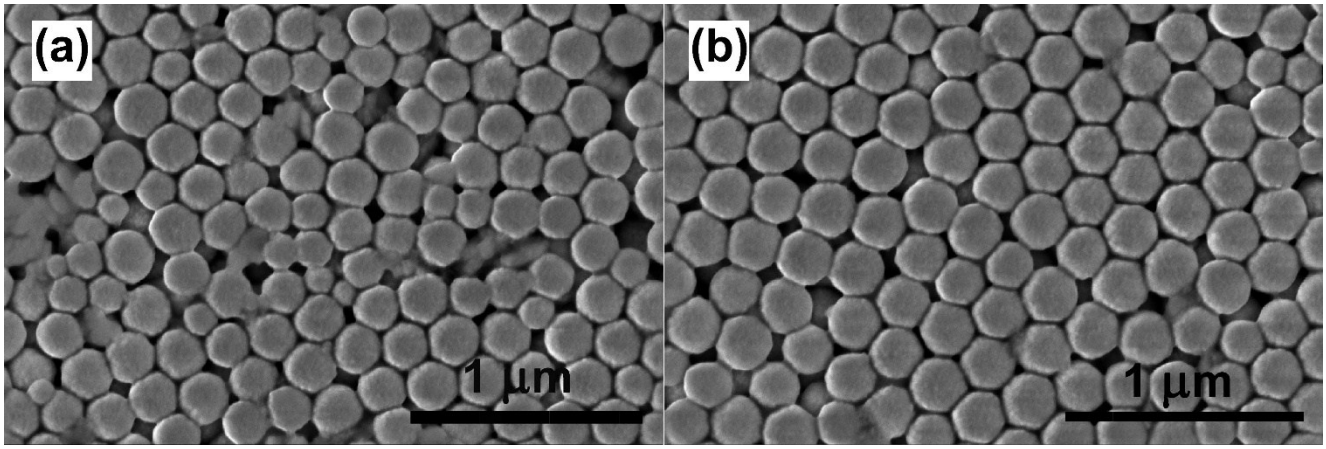

Figure S3. SEM images of Cu_2O spheres with different amount of Cu precursor. (a) 1.2 mL; (b) 1.4 mL

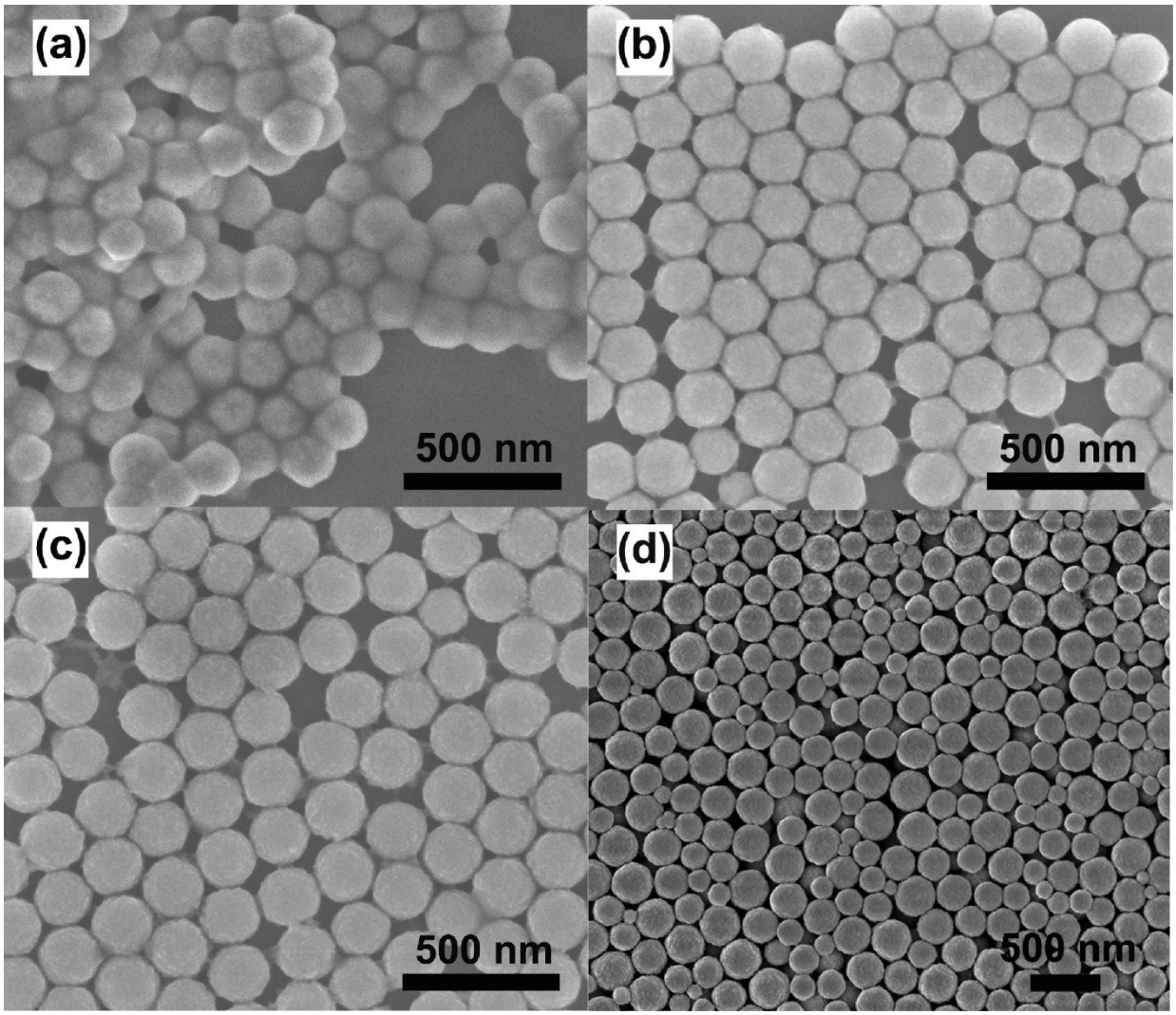

Figure S4. SEM images of products at different times since the formation of secondary structures.(a) 4 min; (b) 30 min; (c) 90 min; (d) products of reaction at 160 ^{o}C

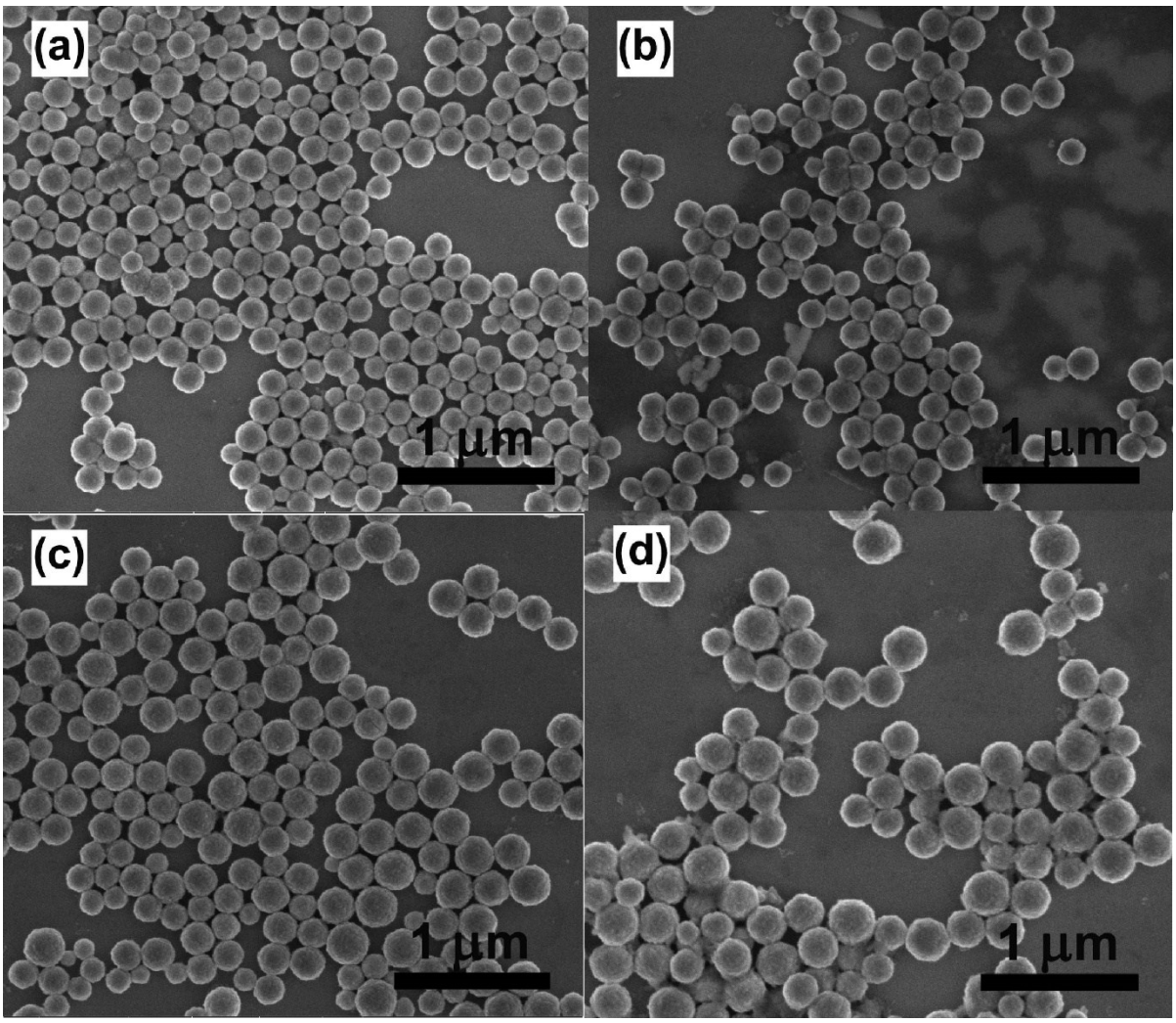

Figure S5 Products with different heating time from 120 °C to 150 °C in the absence of seeds. (a)10 min; (b)12 min; (c)16 min; (d)18 min