

Photocatalytic reforming of glucose under visible light over morphology controlled Cu₂O: efficient charge separation by crystal facet engineering

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Figure S1

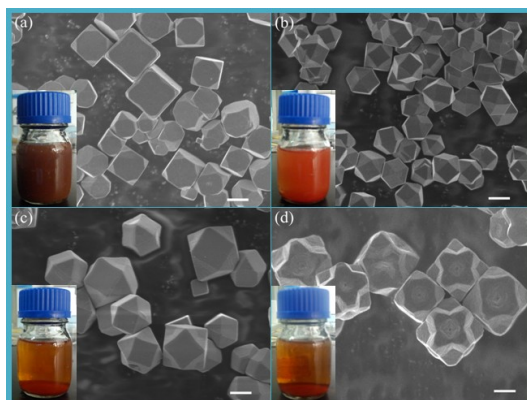


Fig. S1. SEM images for Cu₂O prepared with different reaction times, (a) 30 min, (b) 60 min, (c) 90 min, and (d) 120 min. All scale bars are 1 μm. The inset in each image is the photo for the corresponding reacting solution.

Figure S2

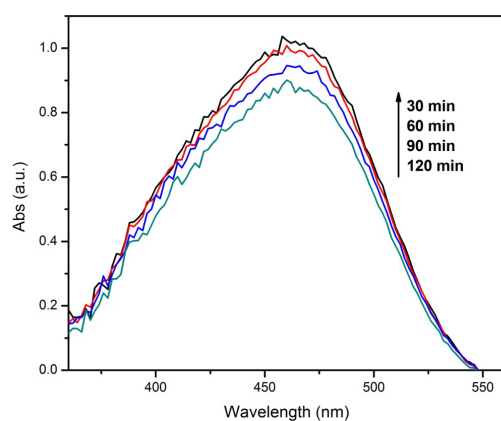


Fig.S2. Diffuse reflectance spectra for Cu₂O prepared with different reaction times.

Figure S3

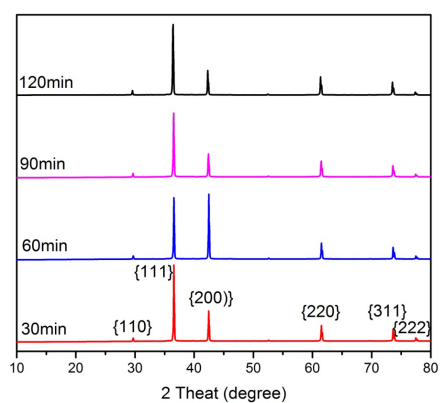


Fig.S3. The XRD patterns of Cu_2O prepared with different reaction times.

Figure S4

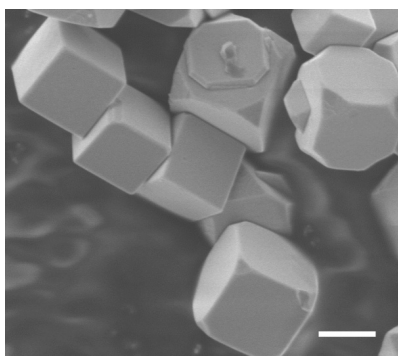


Fig.S4. The SEM image for Cu₂O prepared in the absence of oxygen. The sample was synthesized at 105 °C for 60 min, and the oxygen dissolved in the solution was evacuated initially. The scale bar is 1 μm.

Figure S5

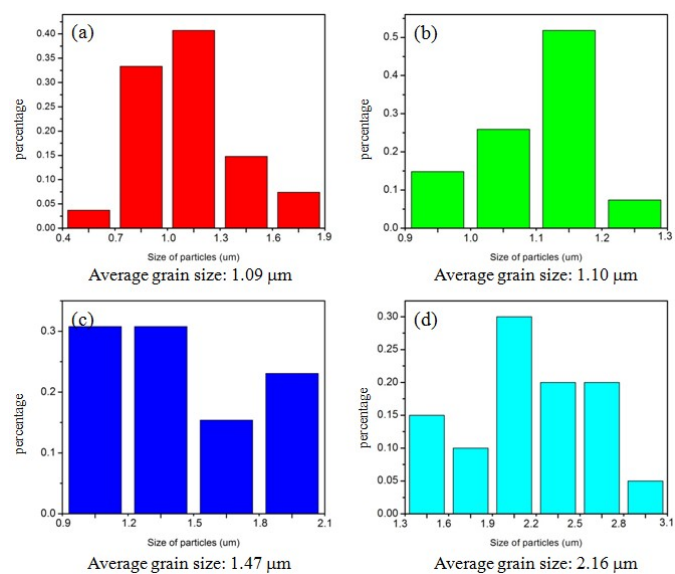


Fig.S5. Particle size distributions for the four SEM images in Fig.S1. (a) Cu_2O prepared for 30 min, (b) 60 min, (c) 90 min, and (d) 120 min.