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Low temperature Decomposition of Ozone by Facilely Synthesized Cuprous Oxide Catalyst

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Figure S1. XRD patterns of Cu\textsubscript{2}O crystals synthesized with various morphologies
Figure S2. SEM images of the Cu$_2$O crystals synthesized with different PVP mass and AA adding rate: (a) 0.2 g, dumping (b) 1 g, dumping (c) 0 g, 0.20 ml min$^{-1}$ (d) 0 g, 0.40 ml min$^{-1}$. 
Figure S3. SEM images of the cube Cu₂O crystals synthesized with various size (a1-d1) and corresponding size distribution histograms (a2-d2)
Figure S4. XRD patterns of Cu₂O crystals synthesized with various morphologies (a) and cubic Cu₂O with different size (b) after ozone test.

The XRD peaks of SiO₂ in used catalysts originate from mixed quartz sand support.
Figure S5. Ozone conversion as a function of temperature over quartz sand. (Ozone inlet concentration 20 ppm, SV 60000 ml g⁻¹ h⁻¹.)