

Electronic Supplementary Information (ESI) for Facile synthesis and characterization of ultrathin cerium oxide nanorods

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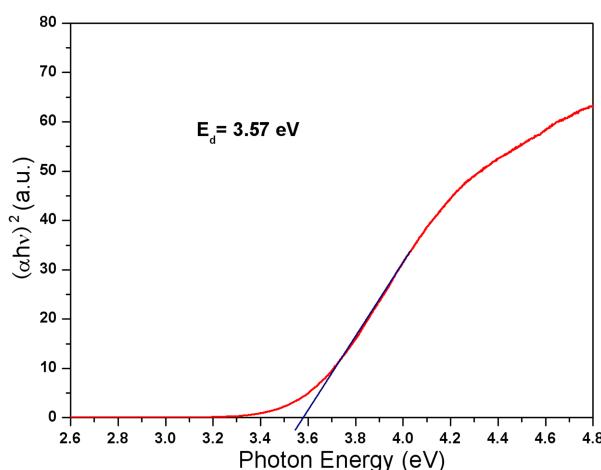


Fig. S1 Plot of $(\alpha h\nu)^2$ vs photon energy for the ultrathin CeO_2 nanorods dispersed in chloroform for the calculation of the direct bandgap energy.

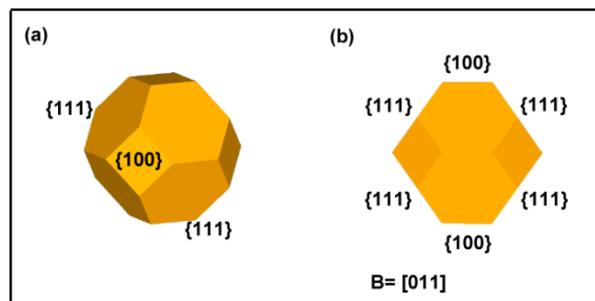


Fig. S2 (a) A 3D structural model of a truncated octahedral bounded with eight $\{111\}$ and six $\{100\}$ planes. (b) a 2D image projected along the $[011]$ direction of a truncated octahedral.

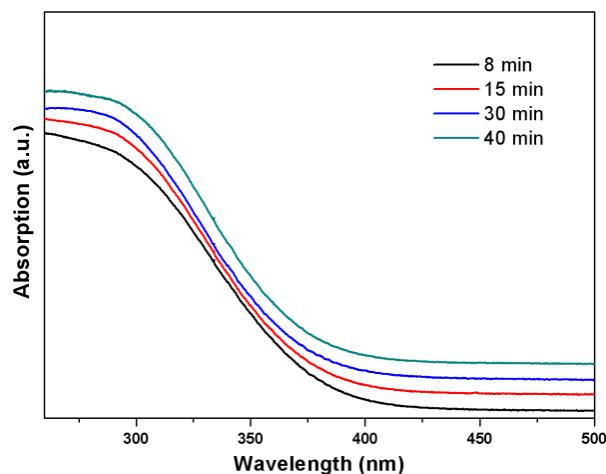


Fig. S3 Temporal evolution of the UV-Vis spectra of the CeO_2 nanocrystals. As the shape of the nanocrystals evolves from particles to short rods, and then to much longer rods, the UV-Vis absorption edges show no obvious redshift, reflecting the constancy of the nanorod diameters during growth.