

Supplementary Information

Morphological evolution and growth of cerium oxide nanostructures by virtue of organic ligands as well as monomer concentration.

Asha Krishnan, Thadathil S. Sreeremya, and Swapankumar Ghosh*

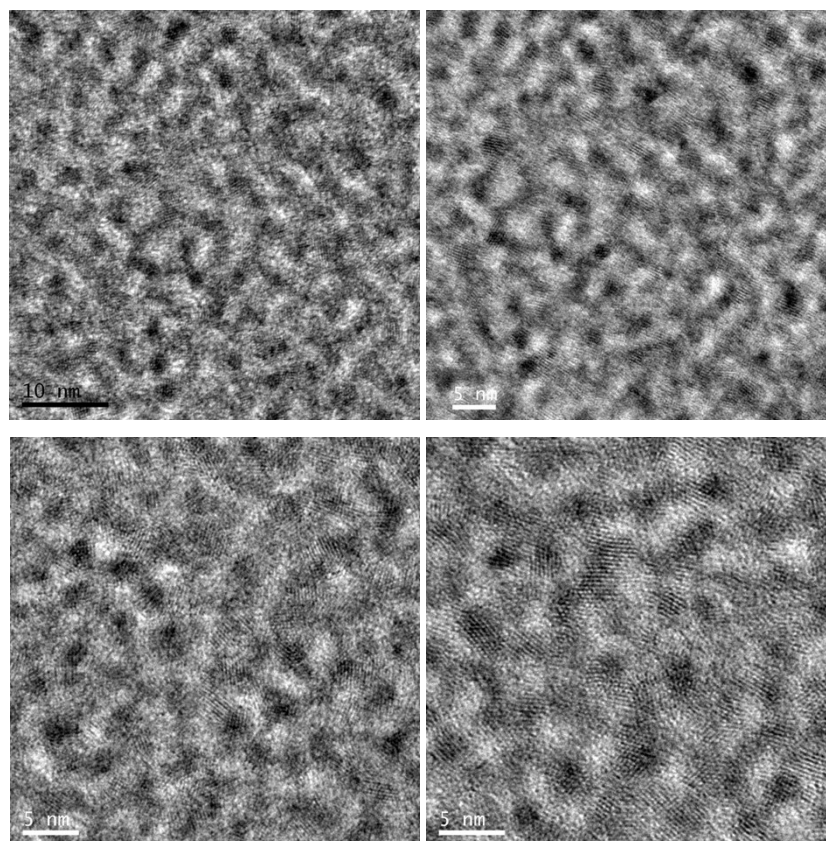


Fig. S1 Transmission electron microscopy images of OA0.05.

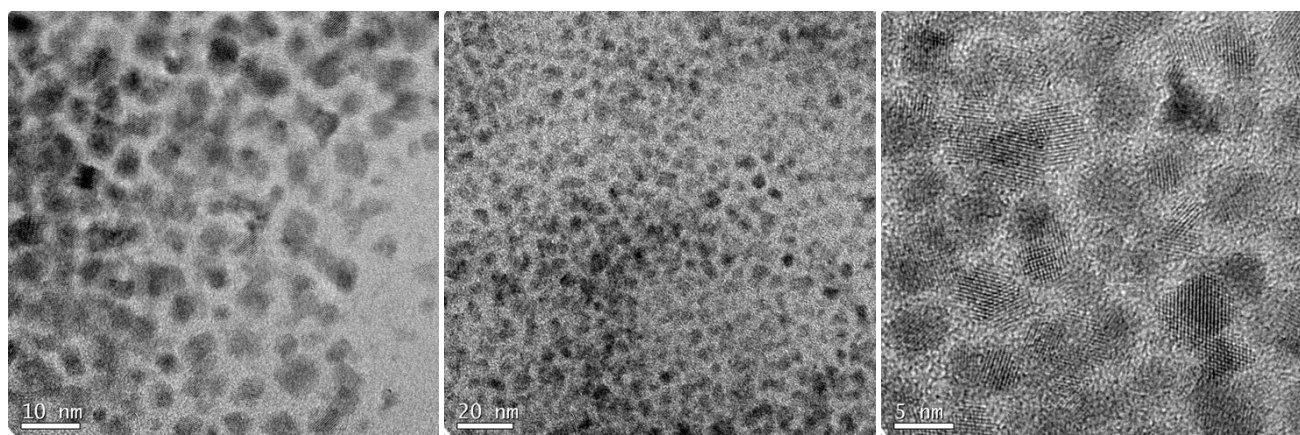


Fig. S2 Transmission electron microscopy images of SA0.05.

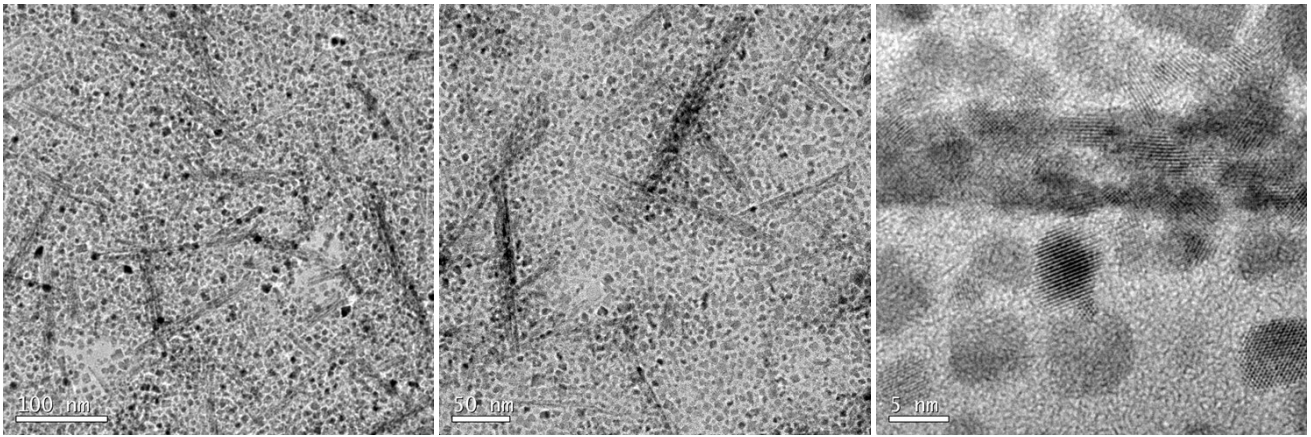


Fig. S3 Transmission electron microscopy images of 1:6OA0.05.

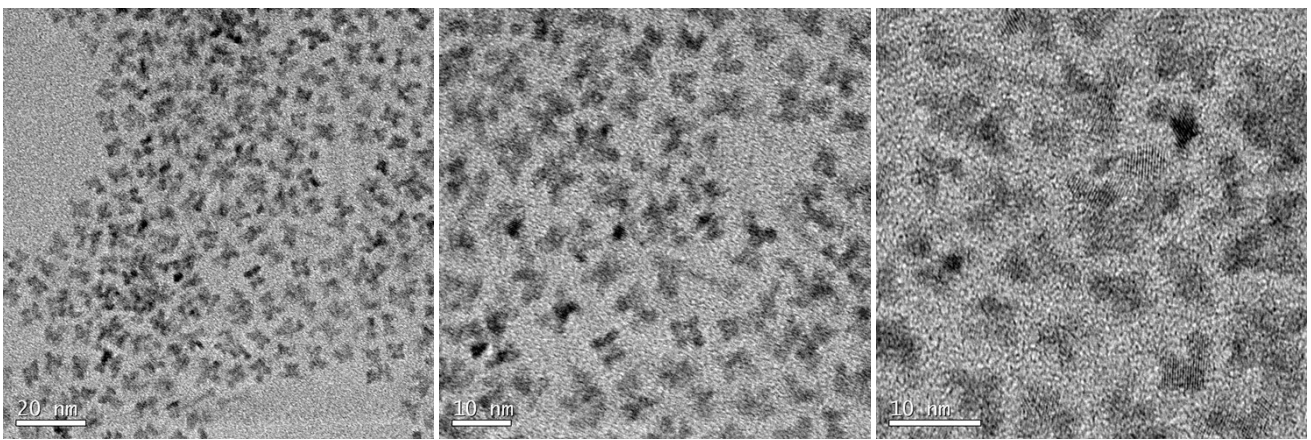
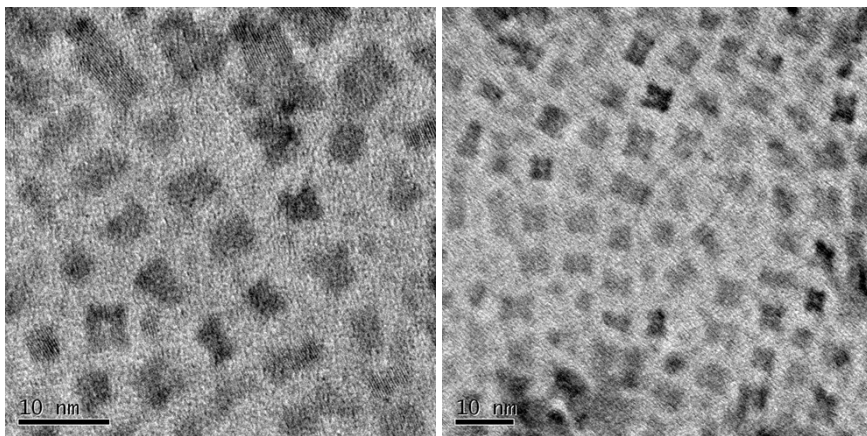


Fig. S4 Transmission electron microscopy images of OA0.3.



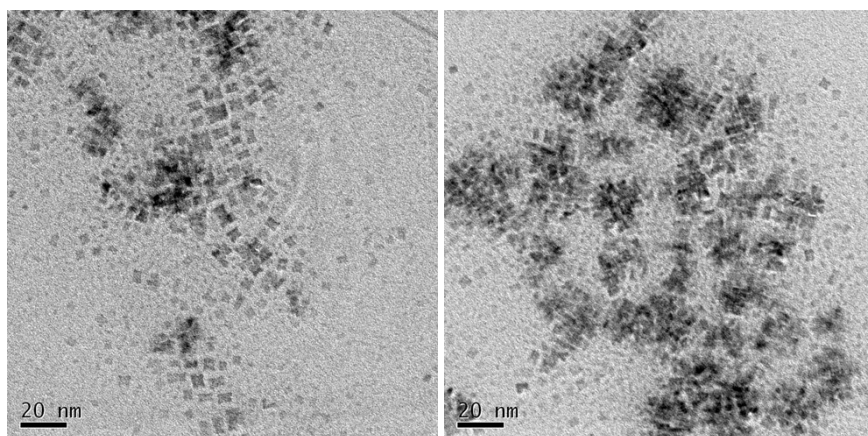


Fig. S5 Transmission electron microscopy images of OA0.5.

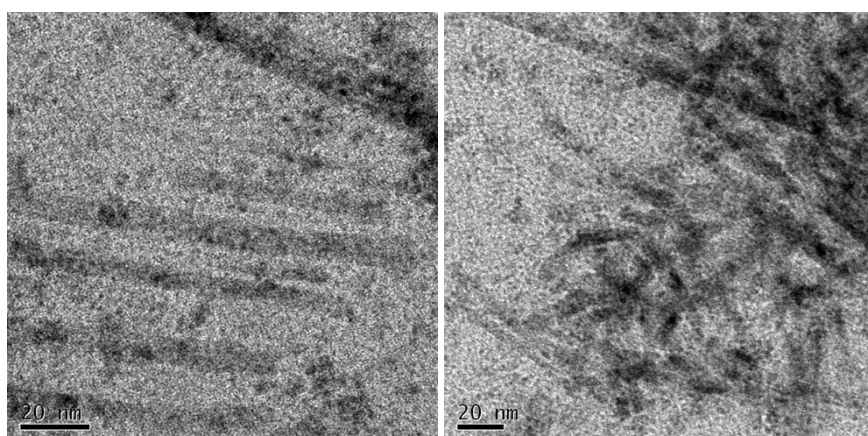


Fig. S6 Transmission electron microscopy images of OA2.5

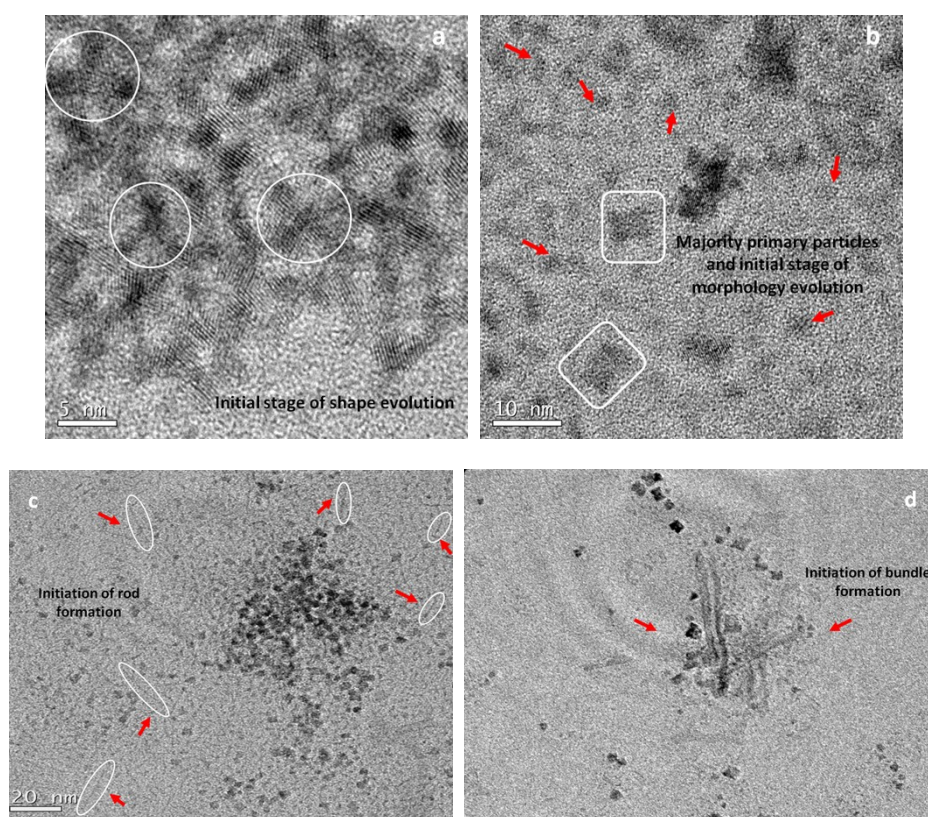


Fig. S7 Transmission electron microscopy images of samples (a) OA0.3 (b) OA0.5 (c) OA2.5 and (d) OA5 with a reaction time 0.5 h, showing the initial stages of morphological evolution.

Table S1 Analysis of thermogravimetric patterns for different OA and SA coated CeO₂ samples

	Sample	Peak 1	Peak 2	Total loss (%)
A	OA5	392		45
B	OA2.5	384		48
C	SA0.05	224	352	50
D	OA0.5	384		52
E	OA0.3	146	450	57.1
F	OA0.05	355	443	61.4
G	1:6OA0.05	372	456	62