Electronic Supplementary Material (ESI) for RSC Advances.

Room Temperature Blooming of CeO_2 3D Nanoflowers under Sonication and Catalytic Efficacy towards CO Conversion

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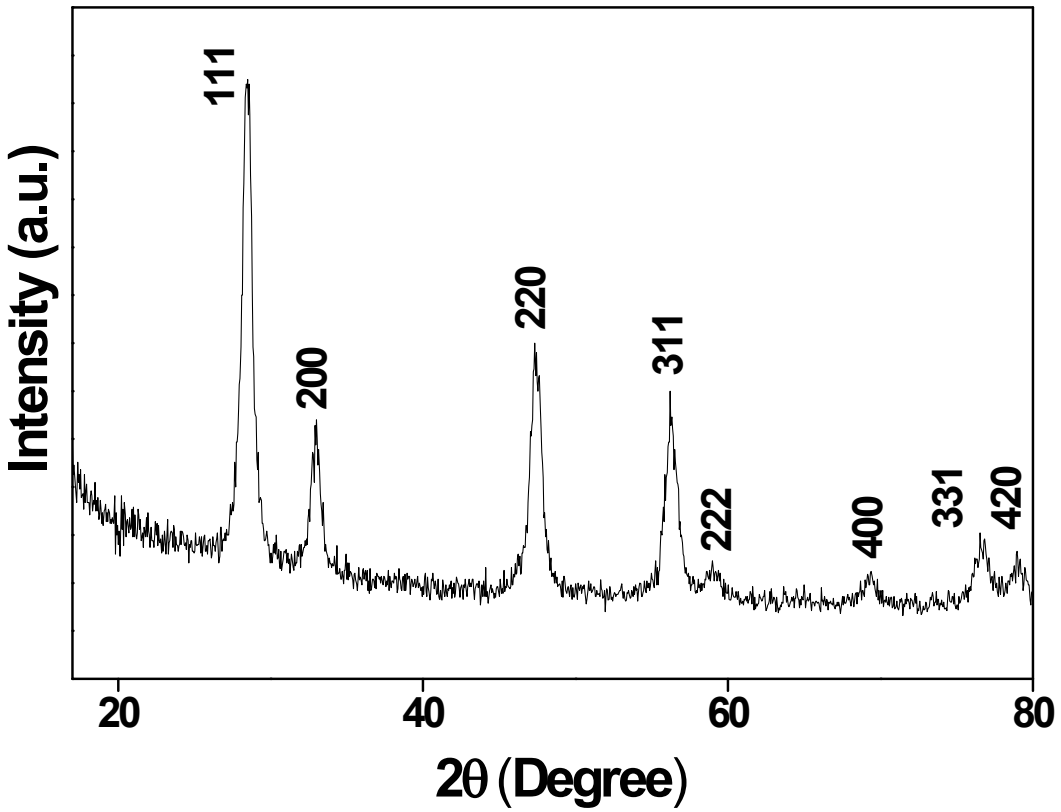

Figure S1: Post calcination XRD plot of Ce-C CeO_2 nanoflower

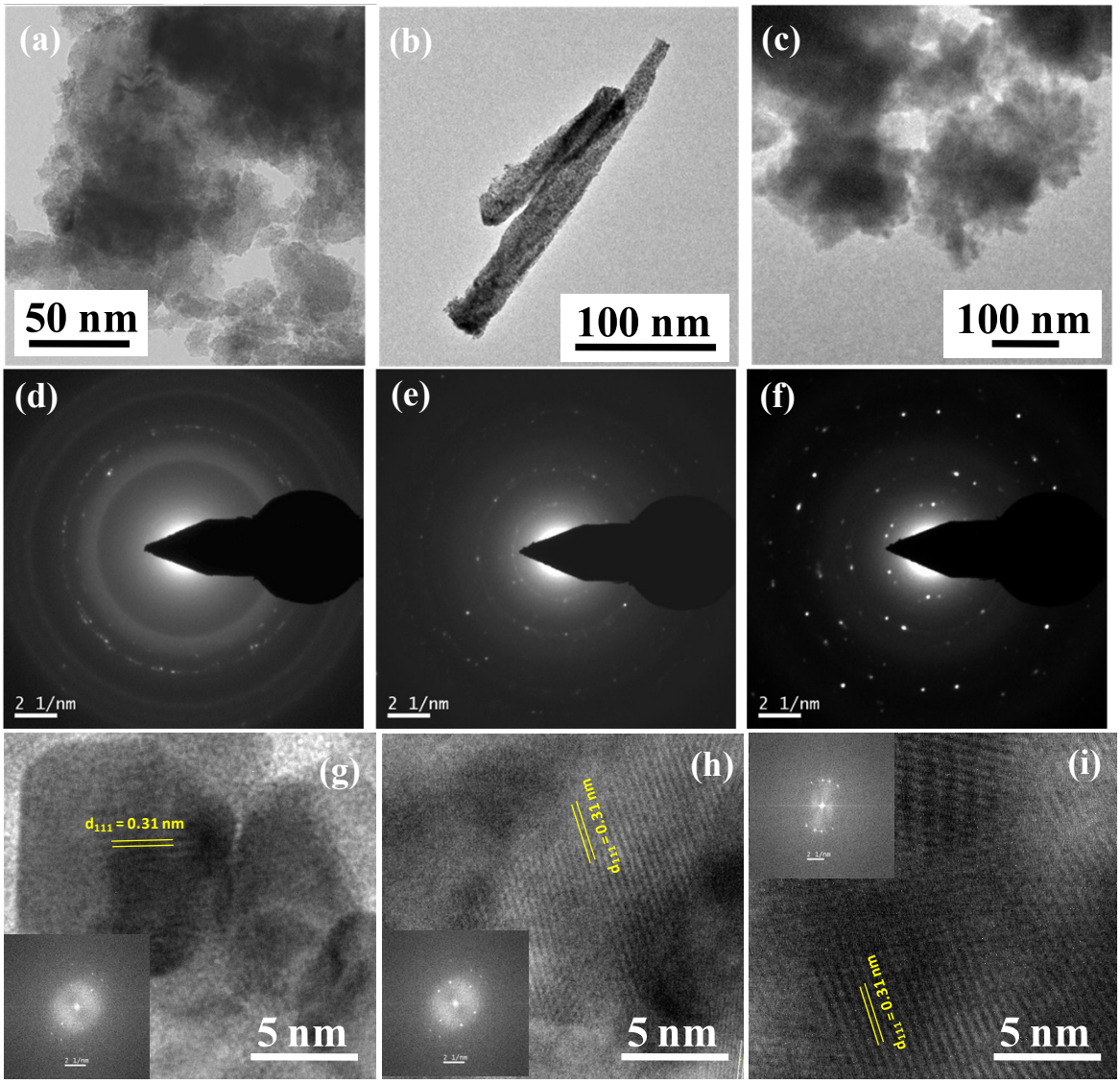

Figure S2: (a)-(c) TEM micrographs, (d)-(f) corresponding SAED pattern and (g)-(i) HRTEM (inset) of Ce-A, Ce-B and Ce-C respectively.

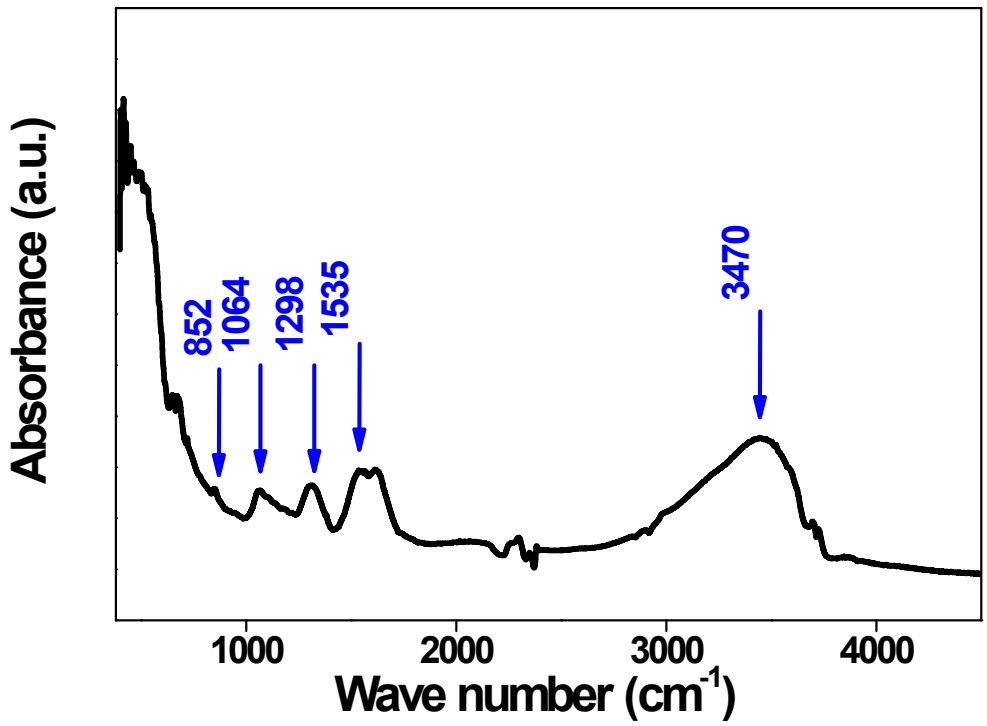

Figure S3: FTIR spectroscopy of ceria nanoflower, Ce-C.

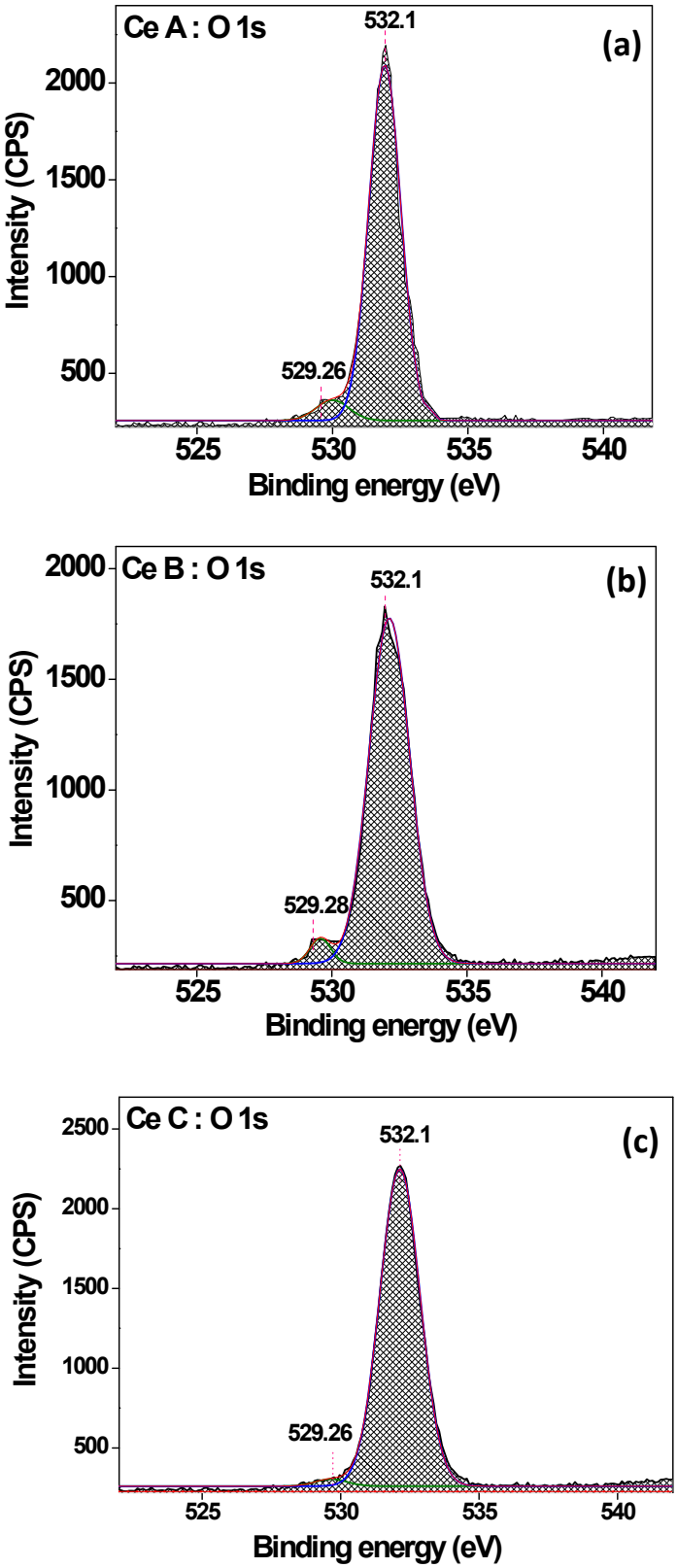

Figure S4: (a)-(c) O 1s core level XPS spectra of the Ce-A, Ce-B and Ce-C respectively.

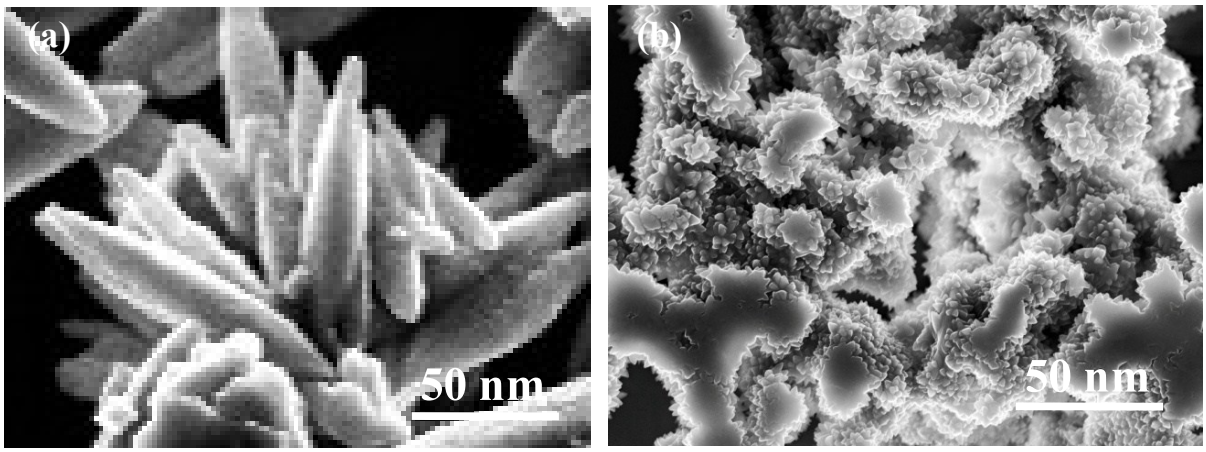

Figure S5: (a) intermediate state of formation of flowerlike structure, (b) prolonged sonication beyond 2 h, fused flowerlike structure.

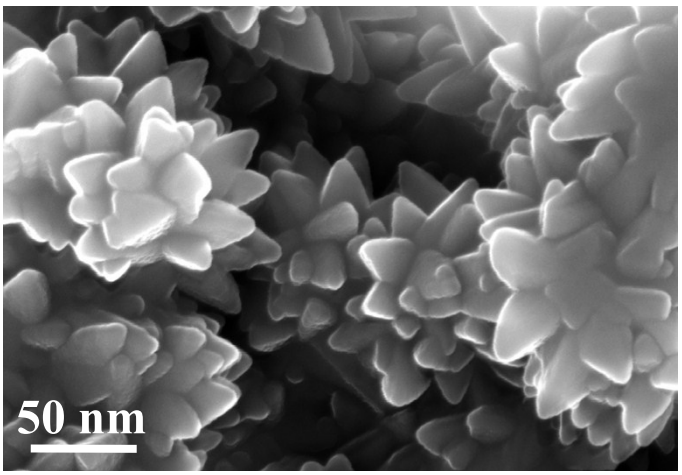

Figure S6: Post conversion FESEM image of Ce-C ceria nanoflower indicating no morphological or structural change