



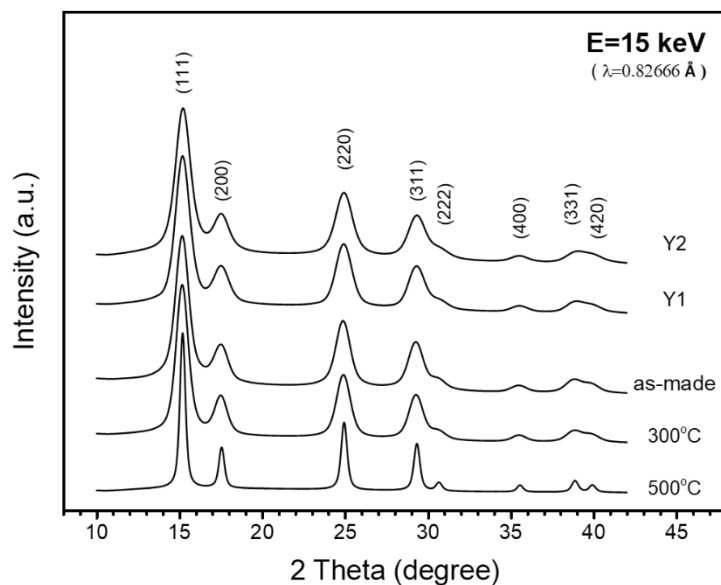
JOURNAL OF  
SYNCHROTRON  
RADIATION

**Volume 25 (2018)**

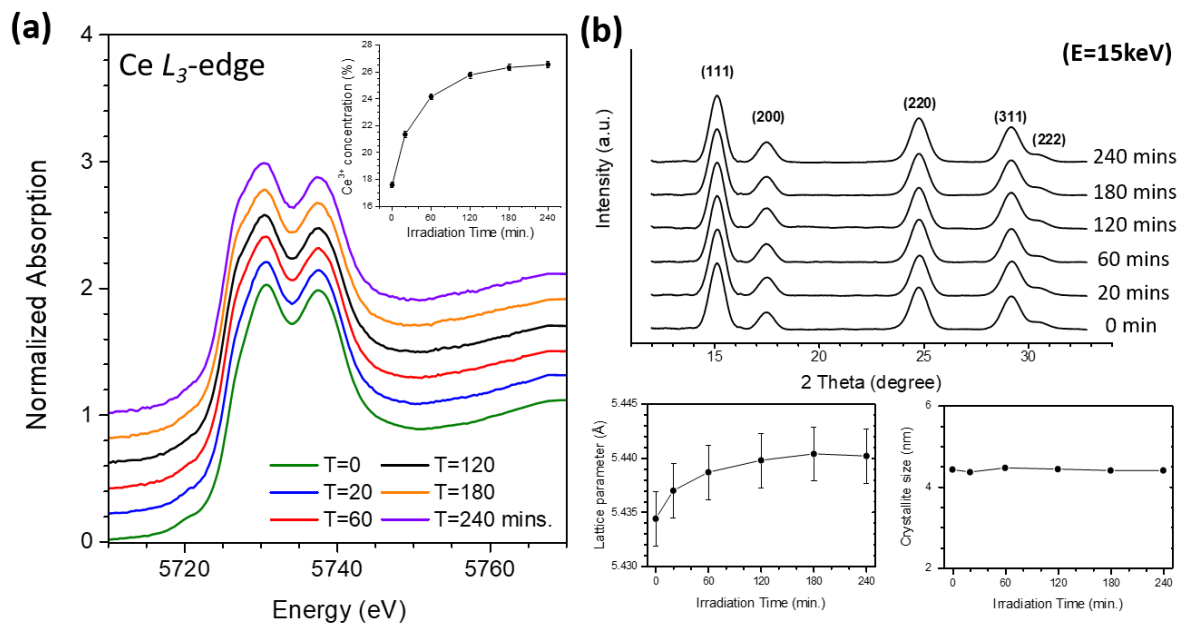
**Supporting information for article:**

**Defect engineering by synchrotron radiation X-rays in CeO<sub>2</sub>  
nanocrystals**

**Tai-Sing Wu, Leng-You Syu, Shih-Chang Weng, Horng-Tay Jeng, Shih-Lin  
Chang and Yun-Liang Soo**



**Figure S1** XRD patterns of CeO<sub>2</sub> samples annealed at different temperatures and Y-doped CeO<sub>2</sub> sample Y1 and Y2. Curves have been shifted vertically for the sake of clarity.



**Figure S2** (a) Ce L<sub>3</sub>-edge XANES and (b) XRD patterns of CeO<sub>2</sub> samples with different x-ray irradiation times.