

Supplementary Information

Low-Temperature Hydrothermal Synthesis and Structure Control of Nano-Sized CePO₄

Jinrong Bao,^{a,c} Ranbo Yu,^{*a} Jiayun Zhang,^a Xiaodan Yang,^a Dan Wang,^{*b} Jinxia Deng,^a Jun Chen,^a and Xianran Xing,^a

^a Department of Physical Chemistry, University of Science and Technology Beijing, Beijing 100083, China,

^b Key Laboratory of Multi-Phase and Complex System, Institute of Process Engineering, Chinese Academy of Sciences, Beijing 100190, China,

^c School of Chemistry and Chemical Engineering, University of Inner Mongolia, Hohhot 010021, China.

10

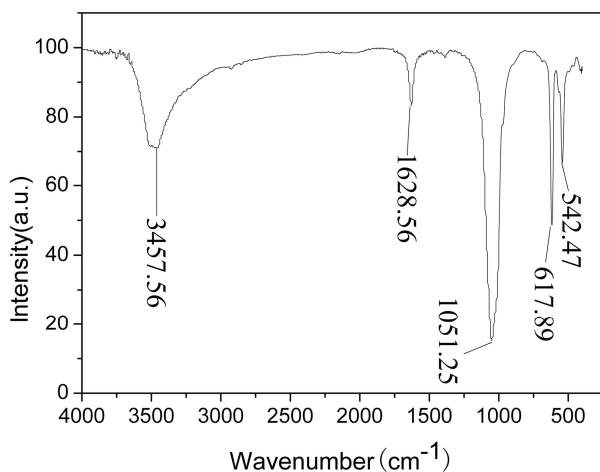


Fig. S1 FTIR spectra of the CePO₄·0.5H₂O prepared with the reactant PO₄/Ce molar ratios of 10

15

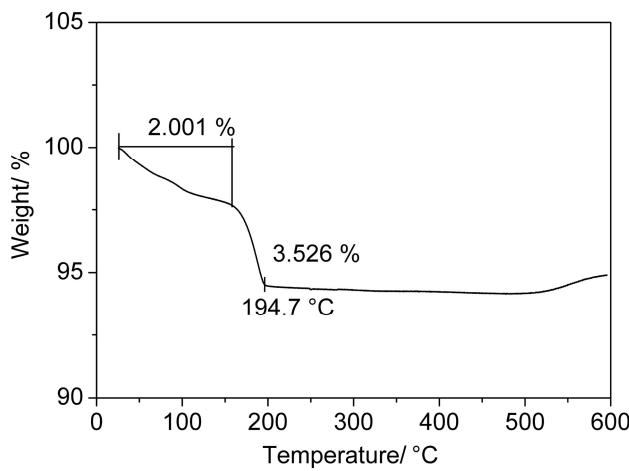


Fig. S2 TGA plot of the CePO₄·0.5H₂O prepared with the reactant PO₄/Ce molar ratios of 10.

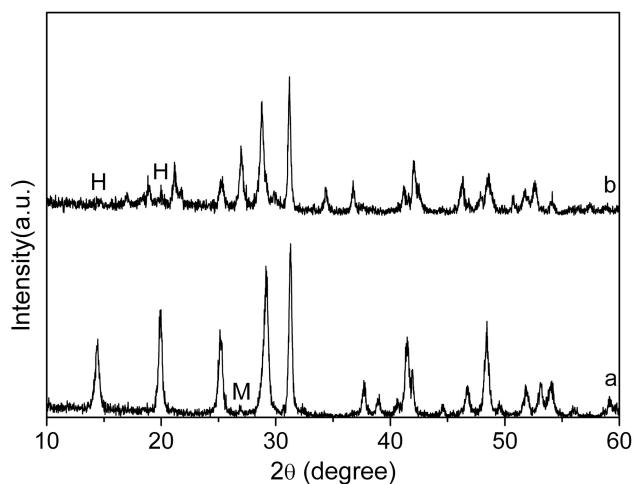


Fig. S3 XRD patterns of the products prepared with different reactant PO_4/Ce molar ratios of (a) 120, (c) 520 (H: hexagonal phase; M: monoclinic phase).