

## Supporting Information

### Synthesis and characterization of the aminated nano-zeolite: A green heterogeneous nanocatalyst for the synthesis of valuable organic compounds

Khadijeh Rabiei\* and Fatemeh Najafi

Department of Chemistry, Qom University of Technology, Qom, Iran

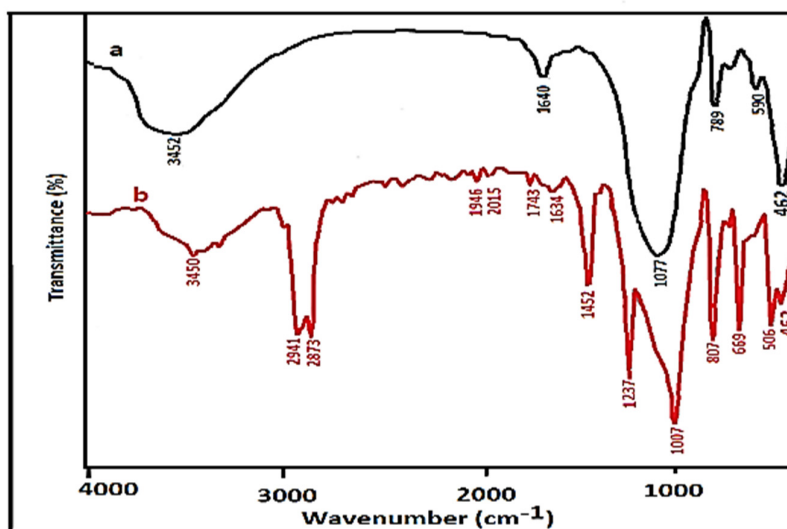


Fig. S1. The FT-IR spectra of (a) NCP (A) and (b) aminated NCP (C).

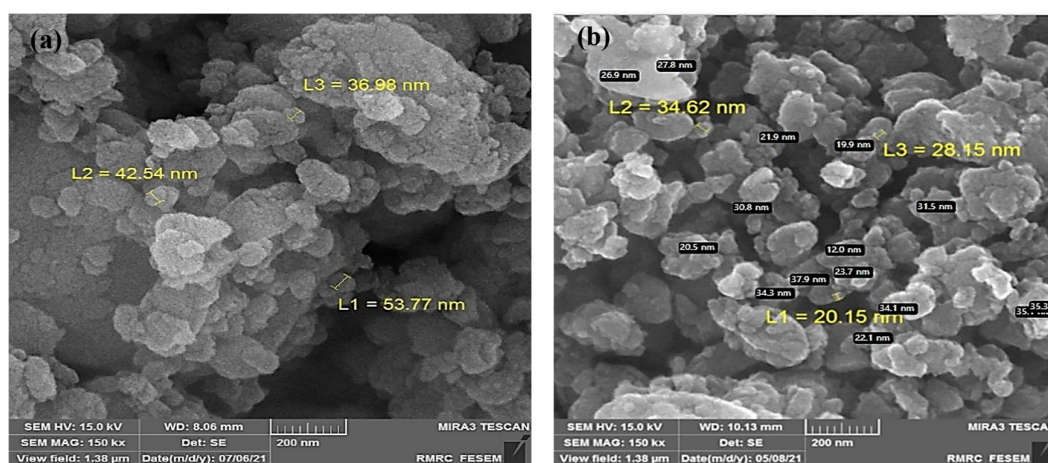
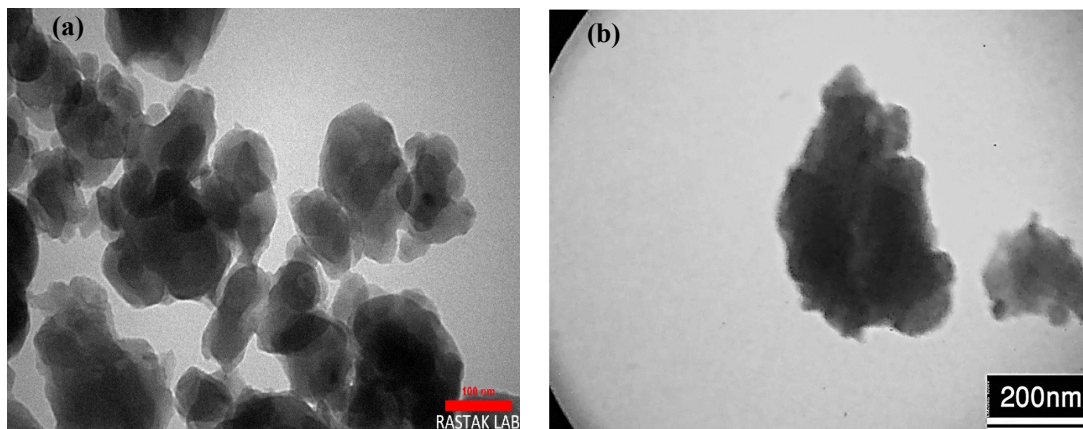
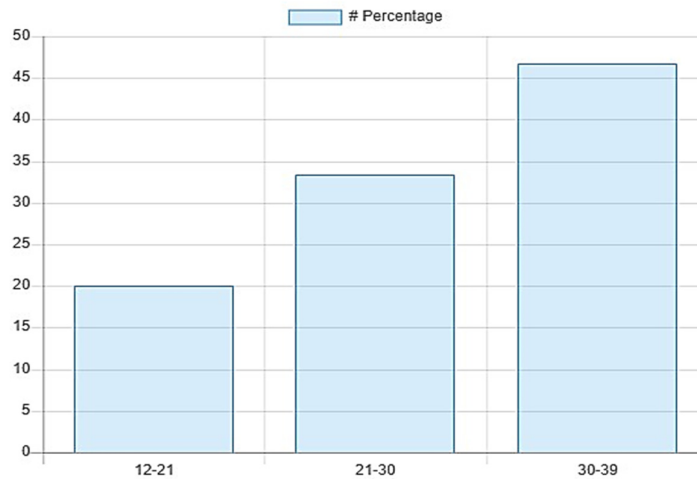


Fig. S2. The SEM images of the (a) pure NCP (A) and (b) functionalized NCP (C).

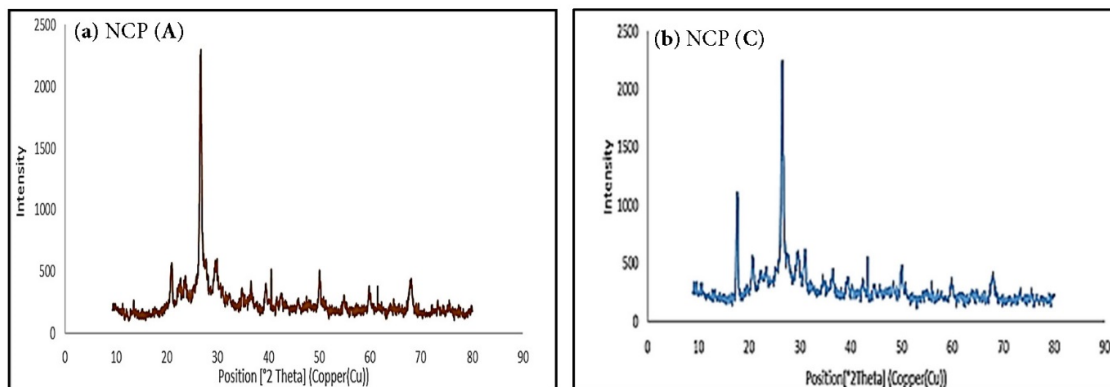
\* Corresponding author: Tel.: +98-2536641601; Fax No: +98-2536641601; E-mail: rabiei@qut.ac.ir



**Fig. S3.** The TEM images of the (a) pure NCP (A) and (b) functionalized NCP (C).



**Fig. S4.** The diagram of the particle distribution of NCP (C).



**Fig. S5.** The XRD patterns of (a) pure NCP (A) and (b) functionalized NCP (C).

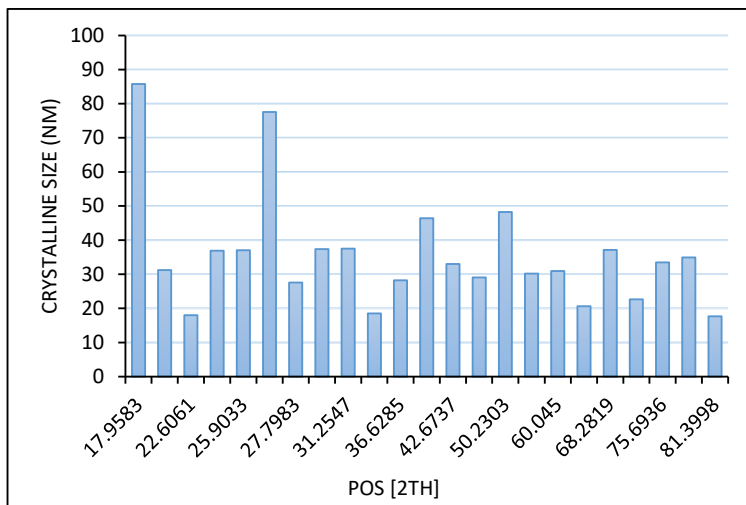


Fig. S6. The diagram of calculated NCP (C) crystallite size.

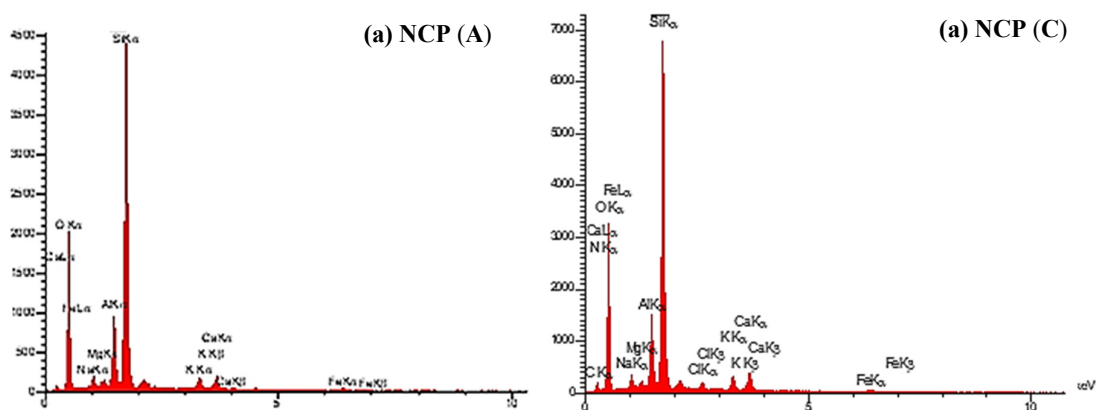


Fig. S7. The EDS analysis of (a) NCP (A) and (b) aminated NCP (C).

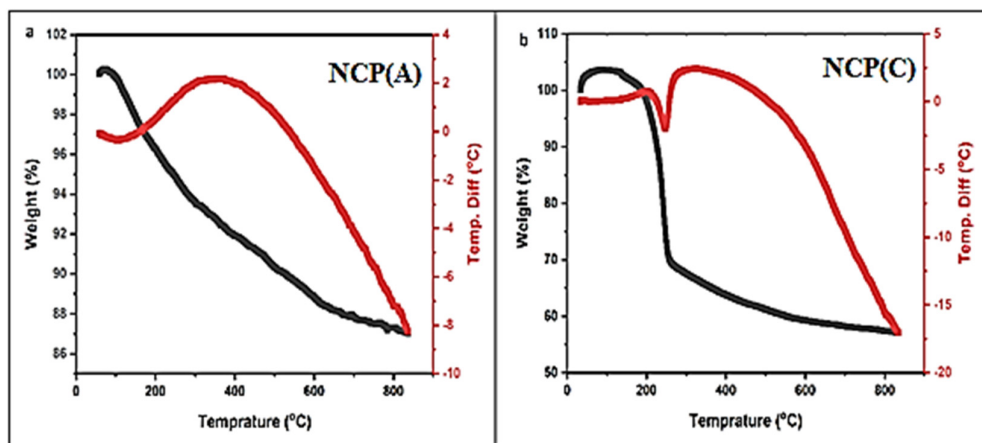


Fig. S8. TG-DTA diagrams of (a) NCP (A) and (b) NCP@SiO<sub>3</sub>Pr(CH<sub>2</sub>)<sub>6</sub>N<sub>4</sub> (C).