Supporting information for

Facile synthesis of ZIF-8 nanocrystals in eutectic mixture Cong Liu,^a Fuxing Sun,*^a Shuyuan Zhou,^a Yuyang Tian,^a and Guangshan Zhu^a

a State Key Laboratory of Inorganic Synthesis and Preparative Chemistry,

Jilin University, Changchun, 130012, P. R. China. Fax: +86 431 85168331; Tel: 86 431 85168331;

E-mail: fxsun@jlu.edu.cn.

Characterization of ZIF-8 nanoparticles

The crystalline structures of ZIF-8 nanoparticles were determined by the X-ray diffraction (XRD) measurements using a Siemens D5005 diffractometer with Cu-K α radiation (λ =1.5418 Å). The size and morphology of ZIF-8 nanoparticles were monitored by field-emission scanning electron microscope (FE-SEM: JEOS JSM 6700F).

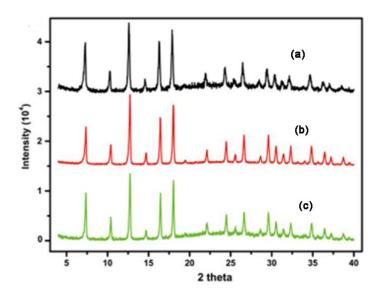


Fig. S1 PXRD patterns of the as-synthesized ZIF-8 samples by different concentrations: 0.5 mol/L (a); 0.25 mol/L (b); 0.125 mol/L (c),

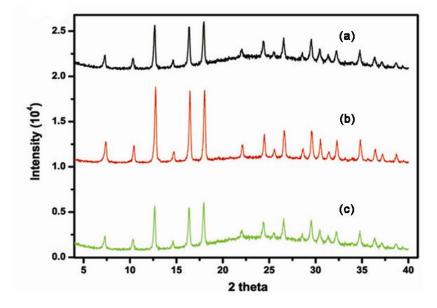


Fig. S2 PXRD patterns of the as-synthesized ZIF-8 samples by different amounts of ethanol and water added to the solution (ratio to the solution): 1 and 4 (a); 2 and 8 (b); 4 and 1 (c)..

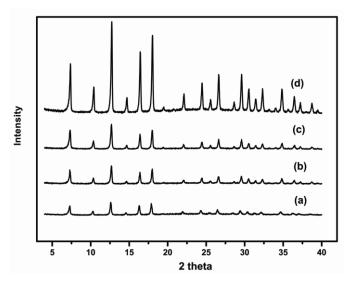


Fig. S3 PXRD patterns of the as-synthesized ZIF-8 samples treated under 100 °C for different times: (a) 0.5 h; (b) 2 h; (c) 6 h; (d) 24 h.

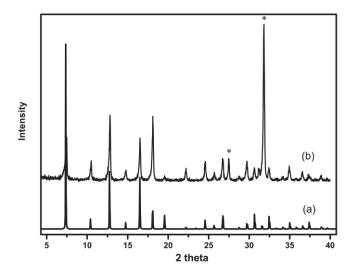


Fig. S4 PXRD patterns of: (a) simulated from structure; (b) sample obtained after adding sodium hydroxide (asterisk: not coincident peaks)