MOF-on-MOF heterostructures with core-shell and core-satellite structures via controllable nucleation of guest MOF

Shumin Li,^a Liang Zhao,^{*a} Yining Yao,^a Zhengying Gu,^a Chao Liu,^a Wenli Hu,^a Ye Zhang,^a Qian Zhao^a and Chenghzong Yu^{*ab}

^aSchool of Chemistry and Molecular Engineering, East China Normal University, Shanghai 200241, P. R. China. E-mail: lzhao@chem.ecnu.edu.cn; czyu@chem.ecnu.edu.cn

^bAustralian Institute for Bioengineering and Nanotechnology, The University of Queensland, Brisbane, Queensland 4072, Australia. E-mail: c.yu@uq.edu.au



Fig. S1 (a) STEM image, and (b and c) elemental mapping images of ZIF-90; (d) STEM image, and (e and f) elemental mapping images of ZIF-90@ZIF-8-A. The scale bars are 100 nm.



Fig. S2 (a and b) TEM images of ZIF-8. Scale bars are 1 μm (a) and 200 nm (b).



Fig. S3 XRD patterns of ZIF-8.