

Supplementary Information

Freestanding fiber mats of zeolitic imidazolate framework-7 via one-step scalable electrospinning

Seongpil An^{1,†}, Ji Sun Lee^{2,3,†}, Bhavana N. Joshi¹, Hong Seok Jo¹, Kirill Titov⁴,
Jong-San Chang^{2,5}, Chul-Ho Jun³, Salem S. Al-Deyab⁶, Young Kyu Hwang²,
Jin-Chong Tan⁴, Sam S. Yoon¹

¹School of Mechanical Engineering, Korea University, Seoul 02841, Republic of Korea

²Research Group for Nanocatalysts, Korea Research Institute of Chemical Technology, Daejeon 34114, Republic of Korea

³Department of Chemistry, Center for Bioactive Molecular Hybrid, Yonsei University, Seoul 03722, Republic of Korea

⁴Department of Engineering Science, University of Oxford, Parks Road, Oxford OX1 3PJ, United Kingdom

⁵Department of Chemistry, Sungkyunkwan University, Suwon 16419, Republic of Korea

⁶Department of Chemistry, Petrochemical Research Chair, College of Science, King Saud University, Riyadh 11451, Saudi Arabia

[†]These authors contributed equally.

*Correspondence to: Y. K. Hwang (E-mail: ykhwang@kriect.re.kr), J. C. Tan (E-mail: jin-chong.tan@eng.ox.ac.uk), and S. S. Yoon (E-mail: skyoon@korea.ac.kr)

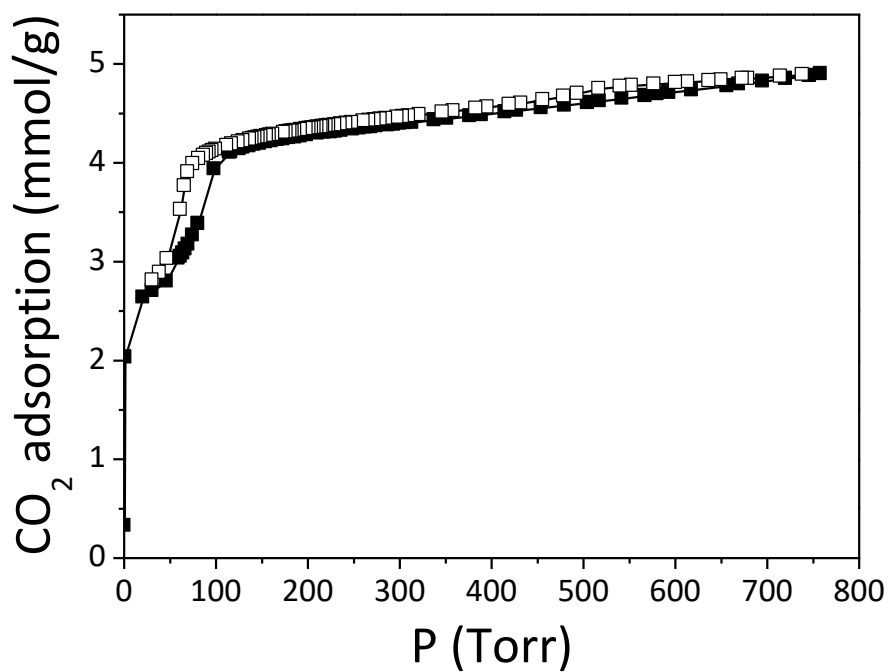


Figure S1. Adsorption/desorption isotherms of CO₂ on ZIF-7 NPs at 196 K. Closed symbols represent adsorption and open symbols indicate desorption.

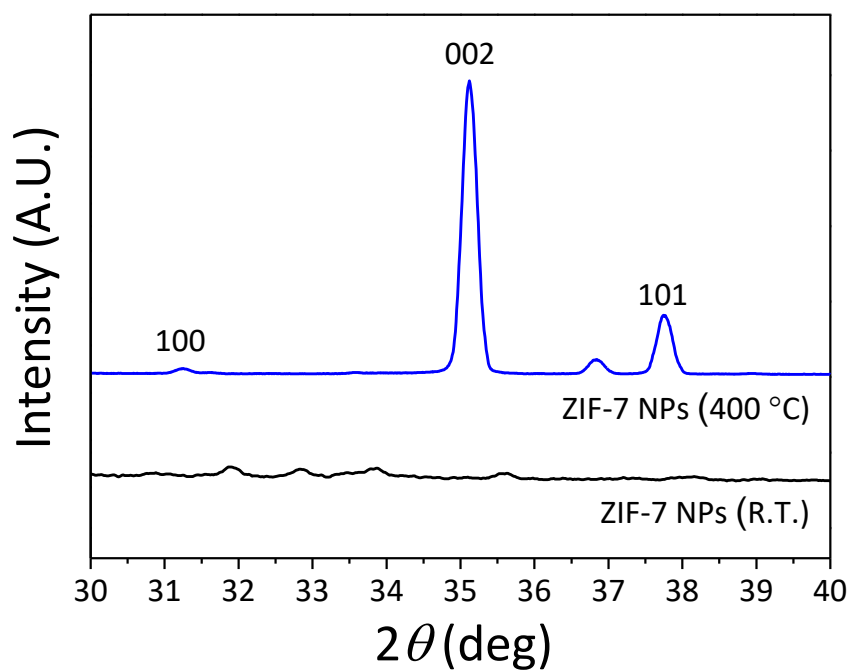


Figure S2. XRD patterns of ZIF-7 NPs annealed at different temperatures.