Polydopamine-enhanced superadhesion and fracture

strength of honeycomb polyurethane porous membranes

Mingshan Xue,^{1#} Dan Zhou,^{1#} Yuwei Ji,¹ Yu Xie,^{1,2*} Changquan Li,³ Jinsheng Zhao^{2*}

¹School of Materials Science and Engineering, Nanchang Hangkong University, Nanchang 330063, People's Republic of China

²Department of Chemistry and Chemical Engineering, Liaocheng University, Liaocheng, 252059, People's Republic of China

³School of Materials and Engineering, Jiangsu University of Technology, Changzhou,

Jiangsu 213001, People's Republic of China

^{*} Corresponding author. Tel.:+86 791 83953408; fax: +86 791 83953373.

E-mail address: xieyu_121@163.com (Y. Xie) and j.s.zhao@163.com (J. S. Zhao).

[#] These authors contributed equally to this work.



Fig.S1 Cross-sectional SEM images of PUPM (a) before and (b) after precipitating PDA with 3 g/L.



Fig.S2 XRD spectra of PUPM corresponding to (A) before and (B) after precipitating PDA.



Fig.S3 Cross-sectional SEM images of PUPM precipitating PDA with 3 g/L: (a-b) before and (c) after fracture strength testing.