Supporting Information

Layered double hydroxide/graphene oxide hybrid incorporated polysulfone substrate for thin–film nanocomposite forward osmosis membranes

Peng Lu¹, Shuai Liang¹, Tuantuan Zhou¹, Xueyi Mei¹, Yu Zhang¹, Cheng Zhang¹,

Ahmad Umar^{2,3}, Qiang Wang^{1,*}

¹College of Environmental Science and Engineering, Beijing Forestry University, 35
Qinghua East Road, Haidian District, Beijing 100083, P. R. China
²Department of Chemistry, College of Science and Arts, Najran University, Najran11001, Kingdom of Saudi Arabia

³Promising Centre for Sensors and Electronic Devices (PCSED), Najran University, Najran-11001, Kingdom of Saudi Arabia

*Corresponding author:

Professor Qiang Wang, College of Environmental Science and Engineering, Beijing Forestry University, 35 Qinghua East Road, Haidian District, Beijing 100083, P. R. China

Tel.: 86-13699130626

E-mail: <u>qiang.wang.ox@gmail.com</u>; <u>qiangwang@bjfu.edu.cn</u>



Fig. S1. Schematic diagram of dispersion of GO and LDH/GO nanosheets in the PSf casting solution.



Fig. S2. Plane view of HR-TEM image of LDH/GO hybrid nanocomposite.





Fig. S3. EDX mapping of PSf-1, PSf-2, PSf-3 and PSf-4.