A Sm-MOF/GO Nanocomposite Membrane for Efficient Organic Dyes Removal from Wastewater

Guohai Yang*, Daqing Zhang#, Gen Zhu, Tingrong Zhou, Manting Song, Lulu Qu, Kecai Xiong*, Haitao Li*

School of Chemistry and Material Science, Jiangsu Normal University, Xuzhou 221116, China

*To whom correspondence should be addressed:
E-mail: yangguohai@jsnu.edu.cn; kcxiong@jsnu.edu.cn; haitao@jsnu.edu.cn

# These authors contributed equally to this work
Figure S1. The water contact angles of (A) GO membrane, (B) M-0.18, (C) M-0.31, and (D) M-0.61, respectively.

Table S1. Theoretical and experimental values of Sm-MOF on GO.

| Material   | M-0.18 | M-0.31 | M-0.41 | M-0.58 | M-0.61 |
|------------|--------|--------|--------|--------|--------|
| Theoretical value | 0.18   | 0.31   | 0.41   | 0.58   | 0.61   |
| Experimental value  | 0.15   | 0.20   | 0.24   | 0.36   | 0.59   |

Table S2. The pristine and after water cleaning-pure water permeance of the M-0.31 for BSA treatment.

| Filtrating parameters                           | M-0.31  |
|------------------------------------------------|---------|
| Pristine pure water permeance (L m⁻²·h⁻¹·bar⁻¹) | 100.14  |
| Pure water permeance after water cleaning (L m⁻²·h⁻¹·bar⁻¹) | 65.63  |
| Pure water permeance recovery rate (%)         | 65.54   |