

**A self-cleaning polyacrylonitrile fiber membrane modified
by photocatalytic nanoparticles and zwitterionic polymer
brush for oil/water separation**

Yanming Shao*, Jun An, Caifeng Hao, Zhizhen Zhao, Mengyi Kang, Huanhuan Zhao,
Xuan Rong, Min Zhao*

*College of Chemistry and Chemical Engineering, Key Laboratory of Auxiliary Chemistry and
Technology for Chemical Industry, Ministry of Education, Shaanxi Key Laboratory of Chemical
Additives for Industry, Shaanxi University of Science and Technology, Xi'an, Shaanxi 710021,
People's Republic of China*

*Corresponding author. E-mail: shaoyanming@sust.edu.cn

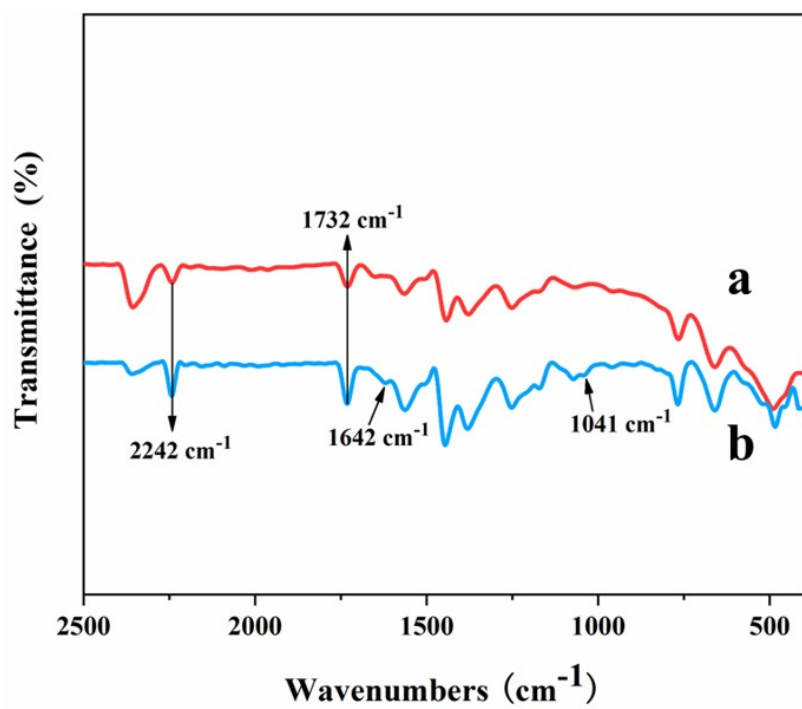


Fig. S1 ATR-FTIR spectra of the PAU membrane (a) and PAUS membrane (b).