### Accepted Manuscript

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PII: S0021-9797(17)30960-8

DOI: http://dx.doi.org/10.1016/j.jcis.2017.08.055

Reference: YJCIS 22702

To appear in: Journal of Colloid and Interface Science

Received Date: 19 July 2017 Revised Date: 12 August 2017 Accepted Date: 16 August 2017



Please cite this article as: Y. Xu, J. Sheng, X. Yin, J. Yu, B. Ding, Functional modification of breathable polyacrylonitrile/polyurethane/TiO<sub>2</sub> nanofibrous membranes with robust ultraviolet resistant and waterproof performance, *Journal of Colloid and Interface Science* (2017), doi: http://dx.doi.org/10.1016/j.jcis.2017.08.055

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### **ACCEPTED MANUSCRIPT**

# Functional modification of breathable polyacrylonitrile/polyurethane/ $TiO_2$ nanofibrous membranes with robust ultraviolet resistant and waterproof performance

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