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Facile synthesis and characterization of cross-linked chitosan quaternary ammonium salt membrane for antibacterial coating of piezoelectric sensors

Jie Li^{a, 1, *}, Bing Xie^{a, 1}, Kai Xia^a, Chunmao Zhao^a, Yingchun Li^a, Dong Li^b, Jing Han^b

^a School of Materials Science and Engineering, North University of China, Taiyuan 030051, China

^b School of Mechatronic Engineering, North University of China, Taiyuan 030051, China

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*Corresponding author. Tel.: +86-0351-3559885

E-mail address: ajiestar@nuc.edu.cn (Jie Li)

¹Contributed equally and should be treated as the co-first author.

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