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## Bio-inspired Loose Nanofiltration Membranes with Optimized Separation Performance for Antibiotics Removals

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### ABSTRACT

The organic contaminants including pesticides, dyes and antibiotics imperilled both environment and creatures, thus hampering the sustainable and healthy development of human society. Loose nanofiltration (NF) is a highly efficient separation process aiming at removing organic contaminants from water. Previously, we developed a kind of cost-effective multi-functional bio-coatings. Herein, we investigated the effects of fabrication conditions on separation performance of the loose membranes with the bio-coating as the effective selective layer. Operation conditions including flow-rate of feed solutions,

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