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Title: Facile preparation of a silver nanoparticles-containing membrane with an enhanced catalysis and separation

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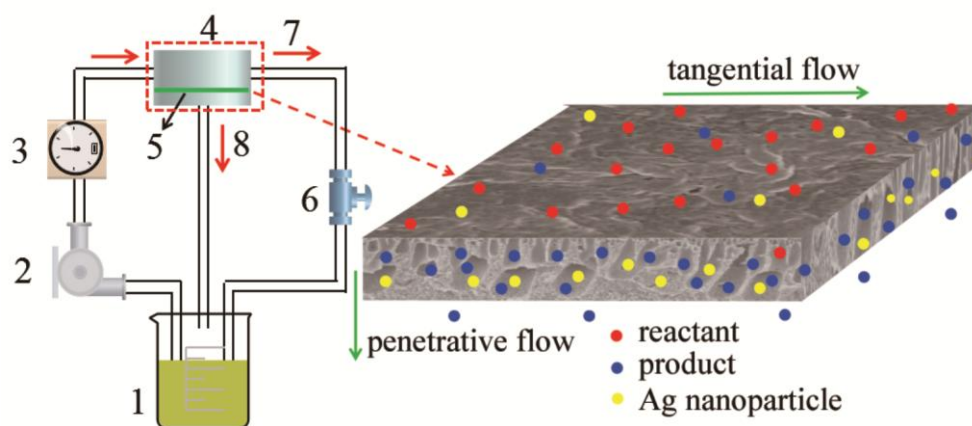
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## Graphic abstract



During cross-flow catalysis, products in penetrative flow are timely separated from the reactants in the tangential flow by the composite membrane. (1 feed tank; 2 diaphragm pump; 3 pressure gauge; 4 membrane cell; 5 membrane; 6 valve; 7 tangential flow; 8 penetrative flow)

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