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# Washable and antibacterial superhydrophobic fabric

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**Abstract:** Inspired by the high adherence of mussel and the excellent water repellency of lotus leaf, superhydrophobic fabric is fabricated via the sequential deposition of polydopamine, Ag<sub>2</sub>O, and 1H, 1H, 2H, 2H - perfluorodecanethiol, which shows excellent washability and high anti-bacterial activity due to the strong interfacial interaction and the surface silver species as well as the non-wettability, respectively.

**Keywords:** Superhydrophobic fabric; Stability; Anti-bacterial; Polydopamine

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