Bioinspired Dopamine and N-Oxide-Based Zwitterionic Polymer Brushes for Fouling Resistance Surfaces

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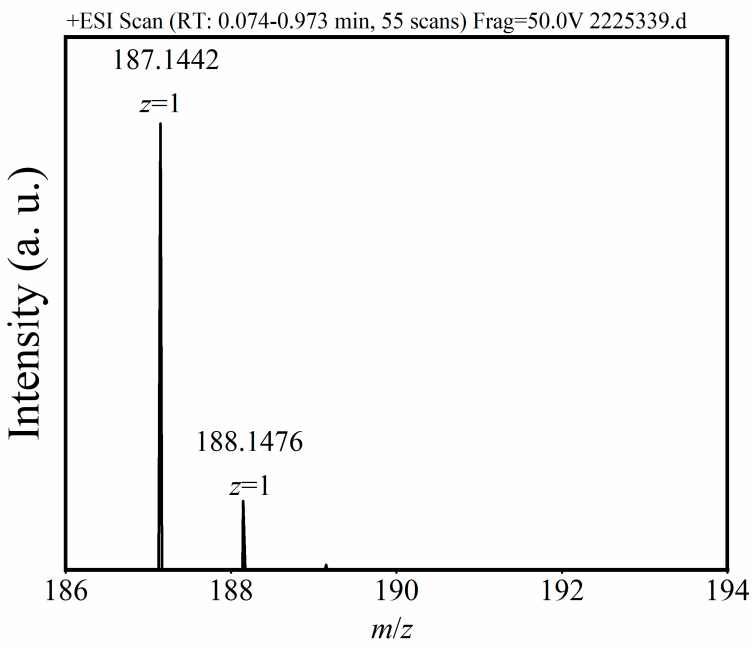


Figure S1 HRMS spectrum of MADMPAO.

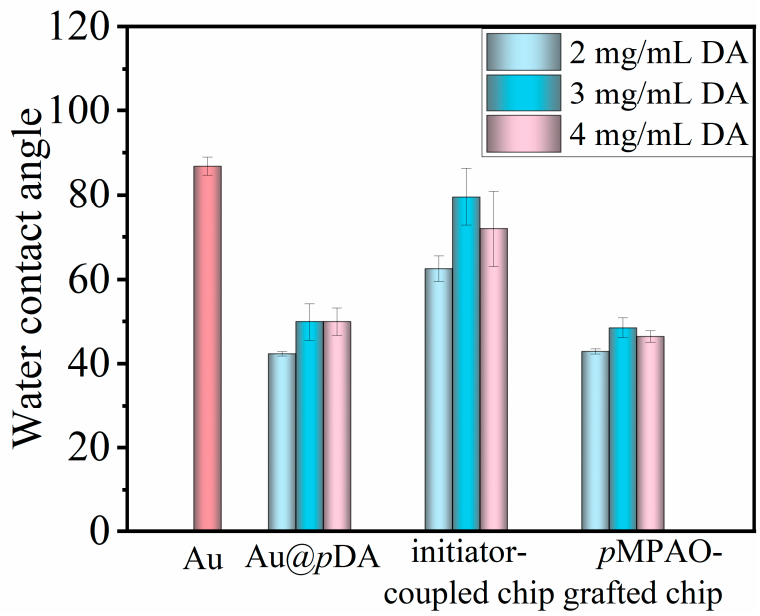


Figure S2 Water contact angles of bare gold, *p*DA-coated, initiator-coupled and *p*MPAO-grafted chips.

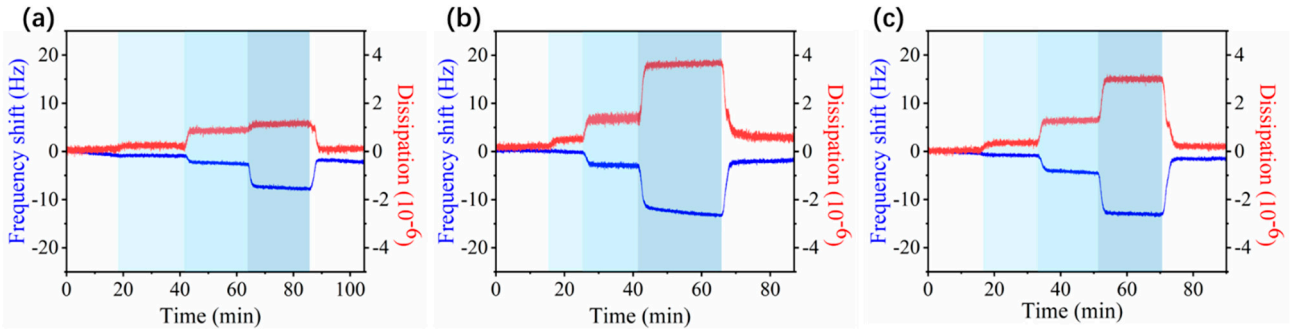


Figure S3 Monitoring of frequency and dissipation shift versus time on initiator-coupled chips in the presence of NaCl (a), Na_2SO_4 (b) and $MgCl_2$ (c) with different concentrations (1.0, 10, and 100 mmol/L).

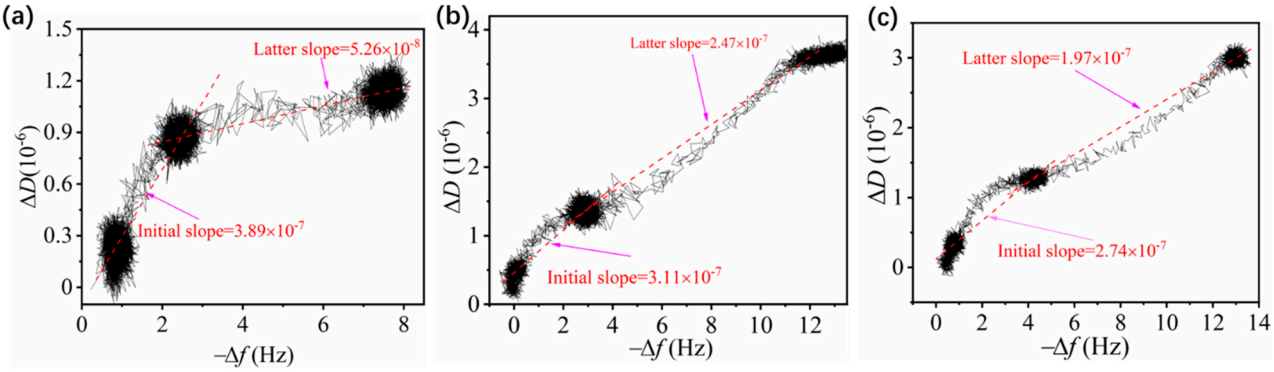


Figure S4 Monitoring of dissipation shift versus frequency on initiator-coupled chips in the presence of NaCl (a), Na_2SO_4 (b) and $MgCl_2$ (c) with different concentrations (1.0, 10, and 100 mmol/L).

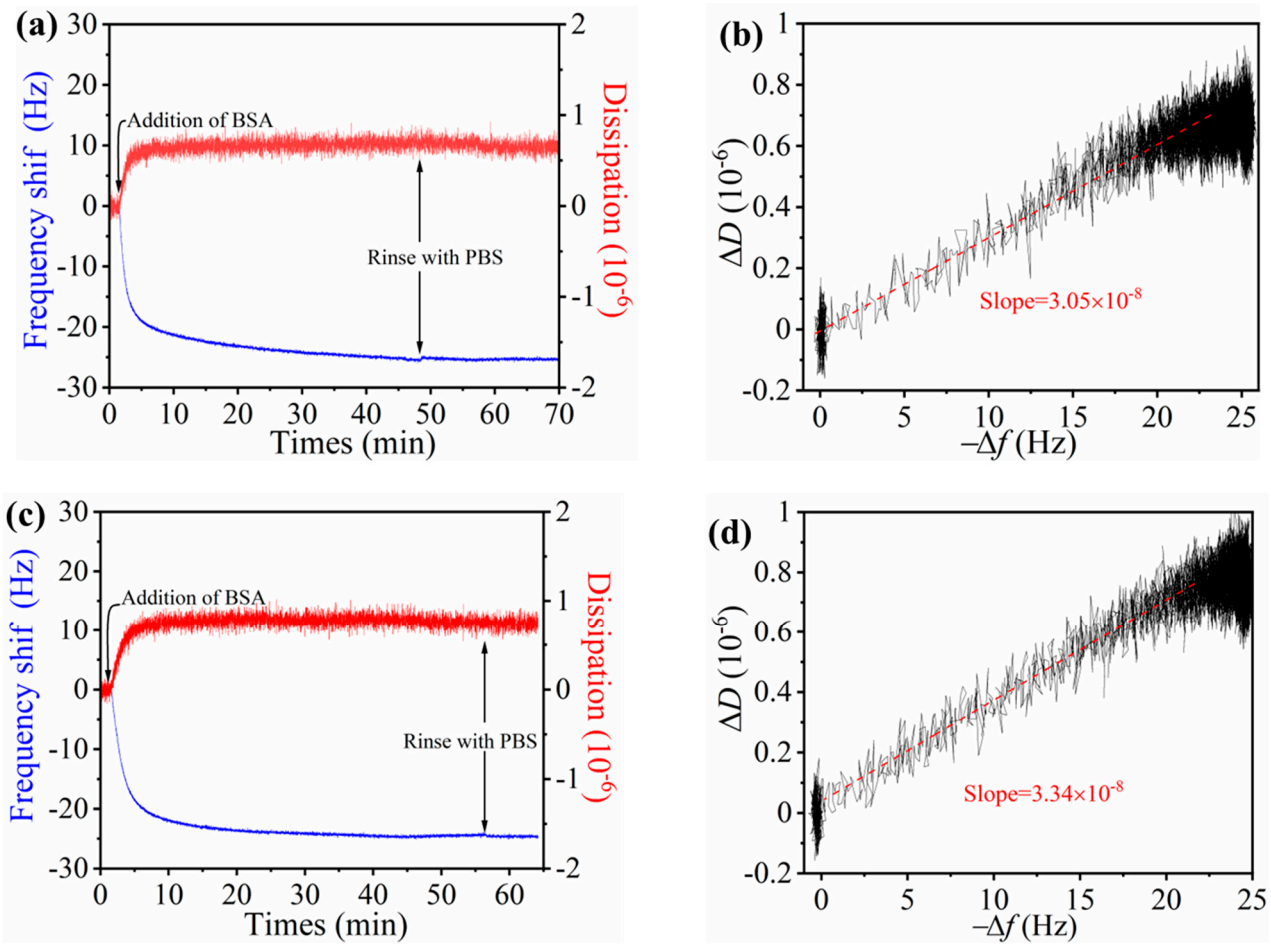


Figure S5 QCM measurement of BSA adsorption on bare gold and Au@*p*DA-2 chips. (a) time resolved profile of Δf and ΔD on bare gold chip, (b) $D-f$ plot on bare gold chip, (c) time resolved profile of Δf and ΔD on Au@*p*DA-2 chips and (d) $D-f$ plot on Au@*p*DA-2 chips.

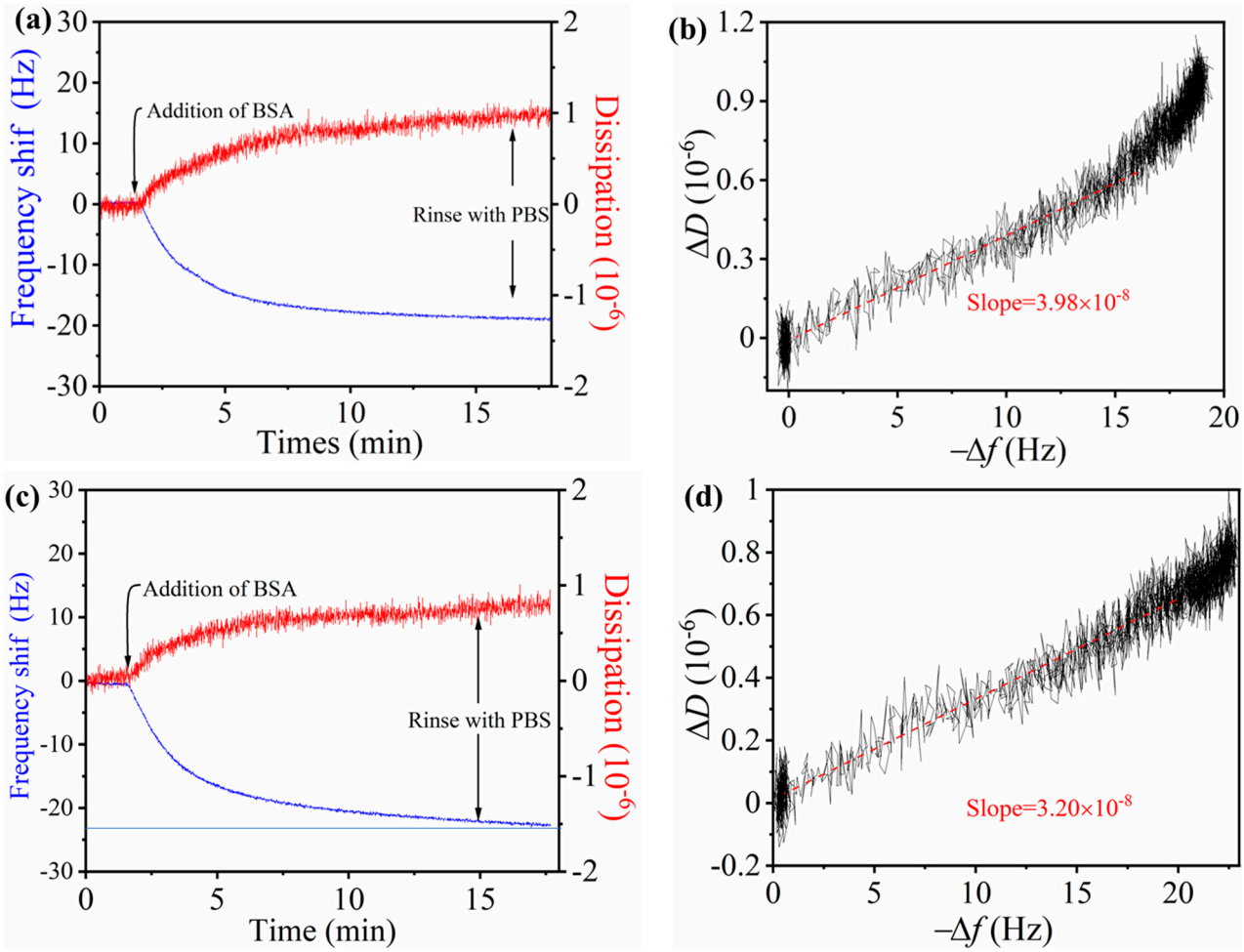


Figure S6 QCM measurement of BSA adsorption on initiator-coupled chips. (a) time resolved profile of Δf and ΔD on Au@*p*DA-3-Br chip, (b) $D-f$ plot on Au@*p*DA-3-Br chip, (c) time resolved profile of Δf and ΔD on Au@*p*DA-4-Br chip and (d) $D-f$ plot on Au@*p*DA-4-Br chip