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Figure S1 Evolution of dopamine in deionized water



Figure S2 SEM of Pure PDA





Figure S3 (a)SEM of pure CNT and (b)measured diameter distribution



Figure S4 Multiplication cycle of pure PDA



Figure S5 Multiplication cycle of pure CNT



Figure S6 TGA curve from room temperature to 600 °C with heating rate of 10 °C/min under air atmosphere



Figure S7 XRD pattern of the PDA and PDA@CNT-10