



**Figure 1.** a) Schematic of the self-rolling of porous nanomembrane and its application in biosensing. b) CV curves of neurotransmitter dopamine sensing. Real time calibration curve for DA with concentrations of 4, 7, 10, 40, 200, 400, 800  $\times 10^{-7}$  mol/L, respectively. The left inset is the molecular formula of dopamine, and the right inset is SEM image of a rolled-up porous ZnO nanomembrane.