

Supplementary Information

Metal-organic frameworks and β -cyclodextrin based composite electrode for simultaneous quantification of guanine and adenine in a lab-on-valve manifold

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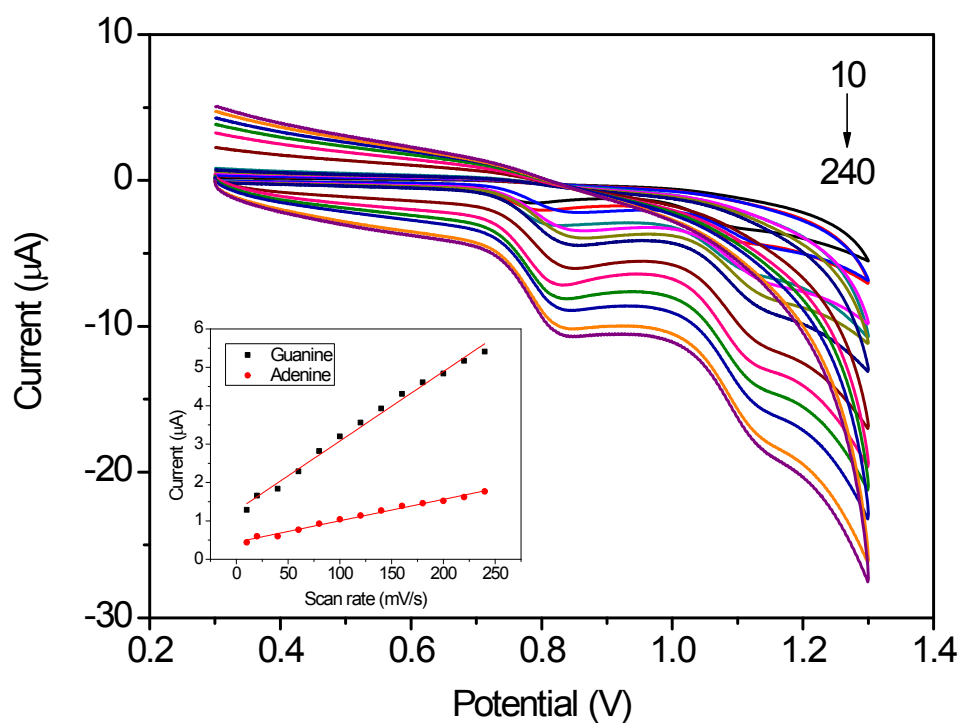


Fig. S1: Cyclic voltammograms of guanine and adenine in phosphate buffer solution at $\text{Cu}_3(\text{BTC})_2/\beta\text{-CD}/\text{GCE}$ at scan rates of 10, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, and 240 mV s^{-1} . Insert: Dependence of oxidation peak currents on scan rates.

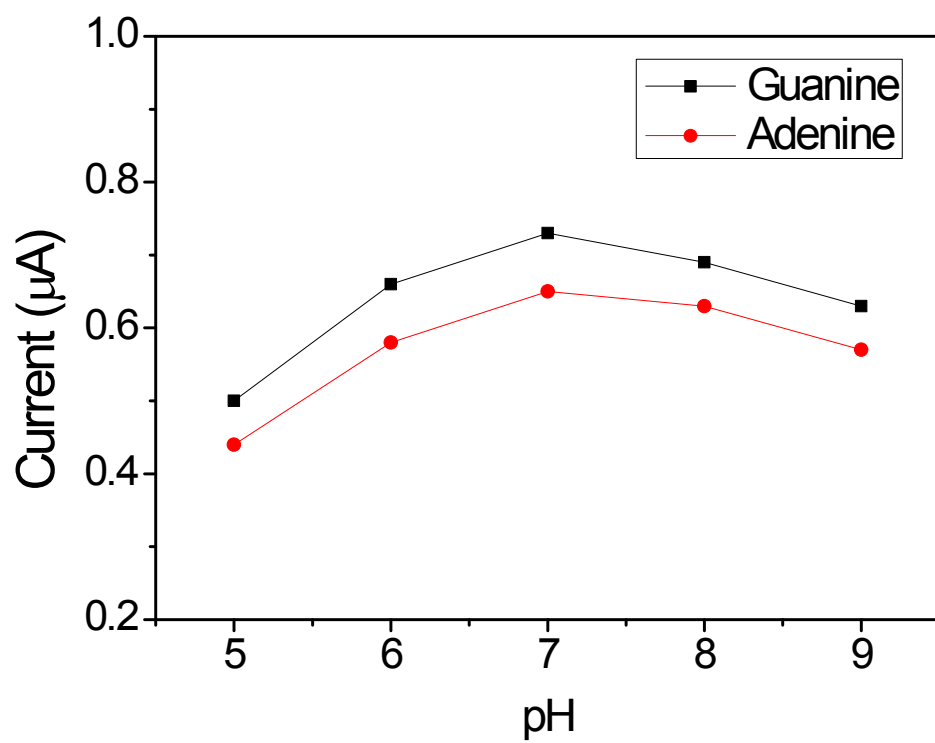
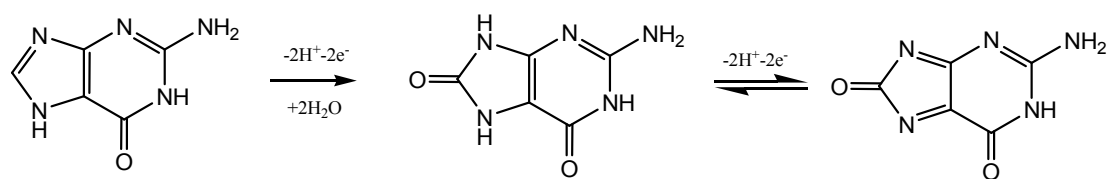


Fig. S2: Effect of pH on the current responses of guanine and adenine.

Guanine



Adenine

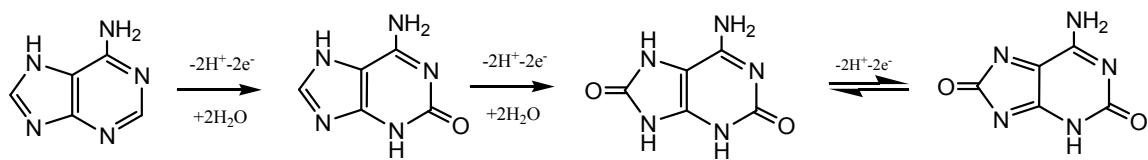


Fig. S3: Oxidation mechanism of guanine and adenine.

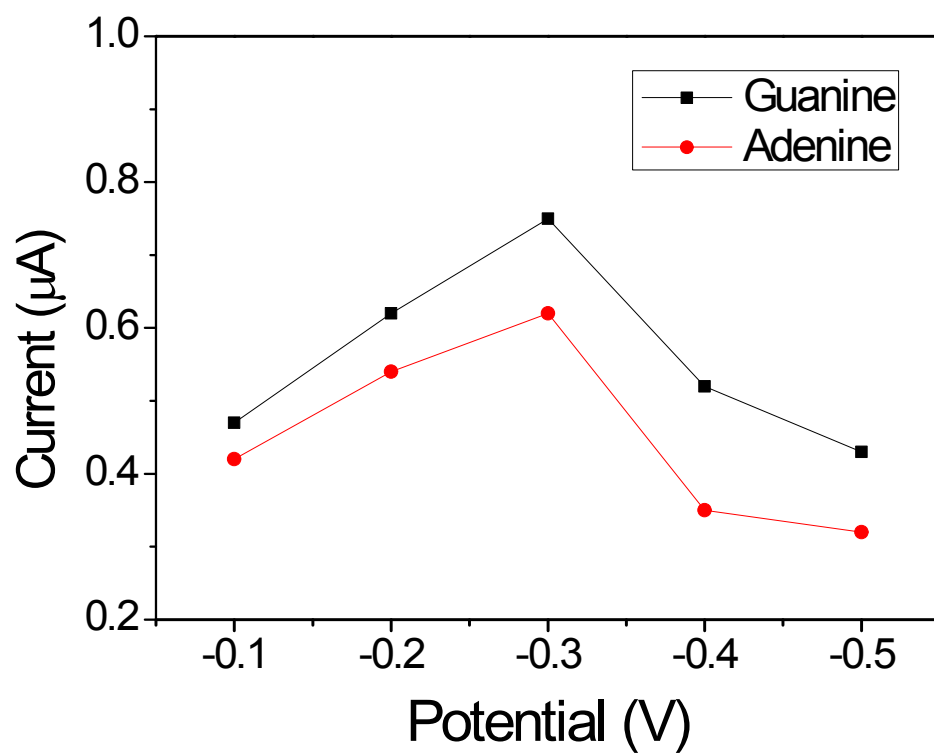


Fig. S4: Effect of accumulation potential on the current responses of guanine and adenine.

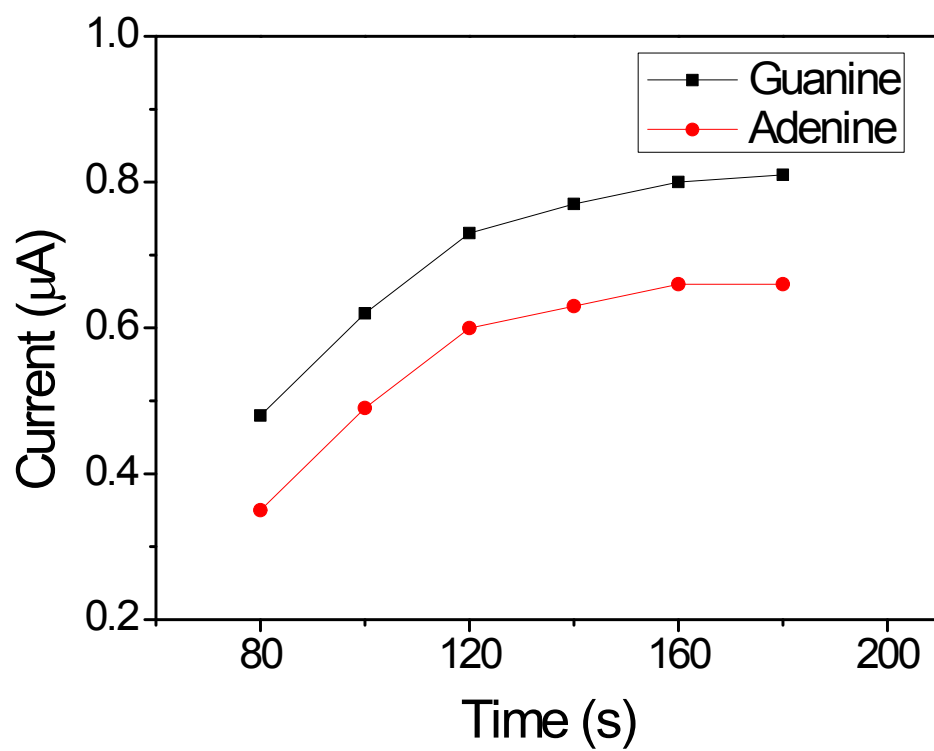


Fig. S5: Effect of accumulation time on the current responses of guanine and adenine.

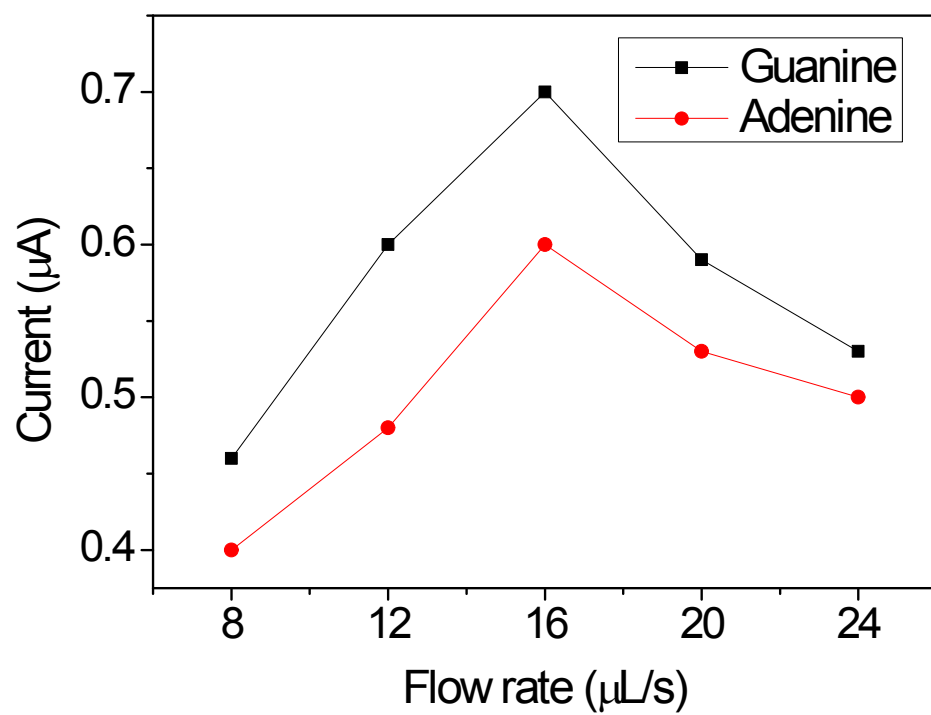


Fig. S6: Effect of flow rate on the current responses of guanine and adenine.