

1 **Electronic Supplementary Information**

2 **The origin of the hysteresis in cyclic voltammetric response of alka-line methanol**
3 **electrooxidation**

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7 **This PDF file includes:**

8 Figs. S1 to S2

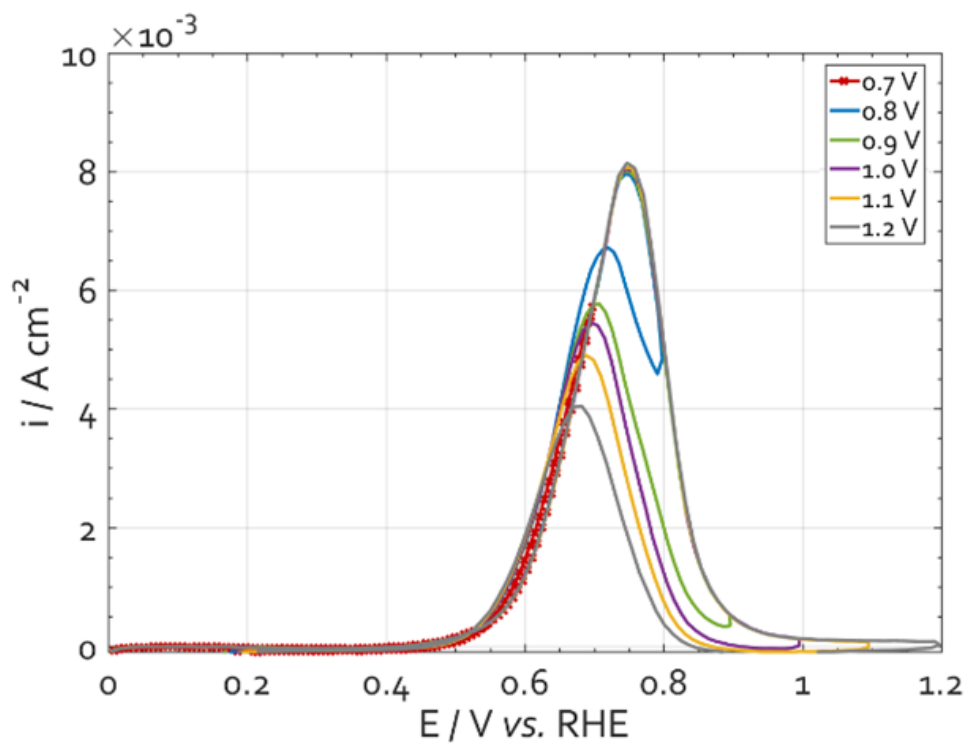


Fig. S1. Experimental cyclic voltammograms of a 0.5 M NaOH + 0.5 M MeOH solution on a Pt-RDE with different upper potential limits: 0.7 (red), 0.8 (blue), 0.9 (green), 1.0 (purple), 1.1 (yellow) and 1.2 V (grey). Scan rate 100 mV s^{-1} .

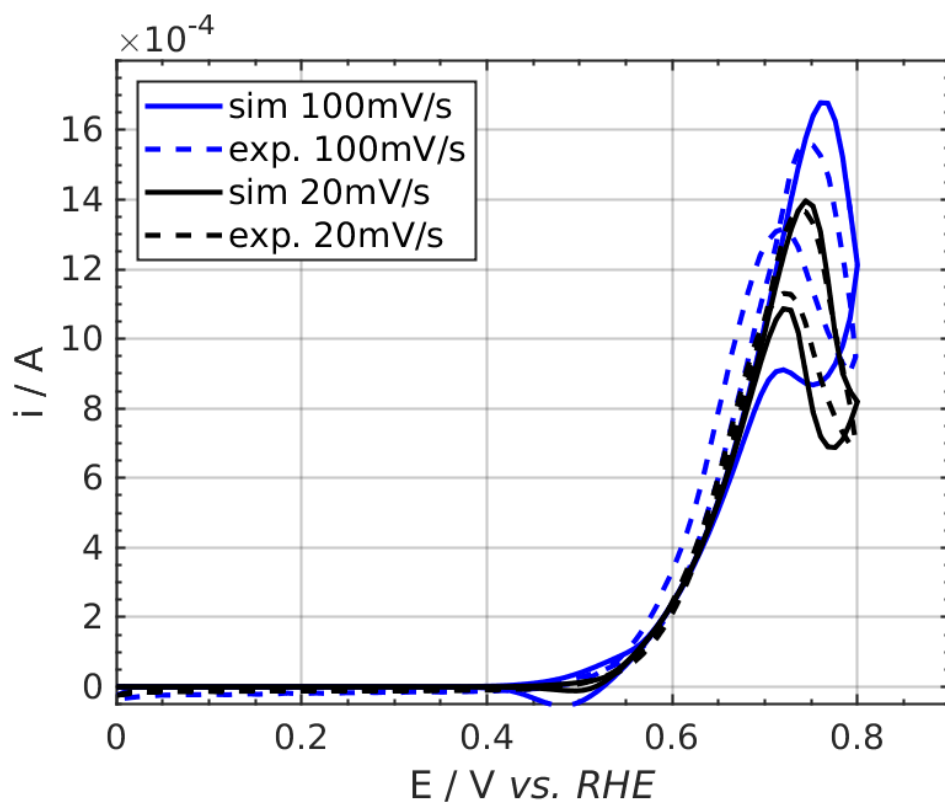


Fig. S2. Experimental and simulated CV curves of an alkaline methanol solution (0.5 M) on Pt with an upper potential limit of 0.8 V at room temperature (scan rate: 20 mV s⁻¹ and 100 mV s⁻¹).