

Table S4: The voltametric current and potential parameters of modified-FTO at various steps.

Working Electrode	CV					DPV		I^* (mol cm ⁻²)
	I_a (A)	I_c (A)	E_{pa} (V)	E_{pc} (V)	ΔE (V)	E (V)	I (A)	
FTO/FeMOF	3.66E-4	-5.4E-4	0.489	-0.239	0.728	0.41	2.21E-4	2.17E-11
FTO/FeMOF@PdNR	4.18E-4	-6.4E-4	0.485	-0.221	0.706	0.42	3.05E-4	2.47E-11
FTO/FeMOF@PdNR/ PDA	6.78E-4	-8.1E-4	0.392	-0.233	0.625	0.368, 0.17	5.25E-4, 4.13E-4	4.01E-11
FTO/FeMOF@PdNR/ PDA/antiMUC1Ab	4.78E-4	-6.1E-4	0.481	-0.231	0.712	0.425	3.45E-4	2.83E-11
FTO/FeMOF@PdNR/ PDA/antiMUC1Ab/MCH	5.67E-4	-7.4E-4	0.497	-0.257	0.754	0.487, 0.208	3.47E-4, 1.79E-4	3.36E-11