

Table S2: Electroactive surface area and related parameters of modified-FTOs at various steps.

Working electrode	Residual Sum of Squares	Adj. R-Square	Intercept	Standard Error	Slope	Standard Error	A _{aff} cm ²
Bare FTO Ia	7.88E-13	0.9853	1.36E-05	1.33E-06	8.48E-05	5.95E-06	1.60E-03
Bare FTO Ic	6.57E-12	0.9667	-8.89E-06	3.84E-06	-1.61E-04	1.72E-05	
FTO/FeMOF Ia	2.09E-10	0.9444	2.08E-04	2.17E-05	7.00E-04	9.70E-05	1.89E-01
FTO/FeMOF Ic	1.81E-10	0.9911	-1.21E-04	2.02E-05	-0.00165	9.01E-05	
FTO/FeMOF@PdNR Ia	5.34E-10	0.9450	1.83E-04	3.46E-05	0.00112	1.55E-04	3.02E-01
FTO/FeMOF@PdNR Ic	6.06E-10	0.9811	-1.76E-04	3.69E-05	-0.00207	1.65E-04	
FTO/FeMOF@PdNR/PD A Ia	5.50E-10	0.8965	2.19E-04	3.52E-05	8.17E-04	1.57E-04	2.20E-01
FTO/FeMOF@PdNR/PD A Ic	1.33E-10	0.9963	-4.92E-05	1.73E-05	-0.00221	7.75E-05	
FTO/FeMOF@PdNR/PD A/antiMUC1Ab Ia	1.25E-10	0.9612	1.71E-04	1.67E-05	6.50E-04	7.48E-05	1.75E-01
FTO/FeMOF@PdNR/PD A/antiMUC1Ab Ic	8.02E-11	0.9952	-6.41E-05	1.34E-05	-0.00151	6.01E-05	