Fabrication of gold/polyaniline/copper oxide electrode for efficient photoelectrochemical hydrogen evolution

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Table S1. EDAX composition elemental analysis of the pure CuO, Fe-PANI/CuO, and Au/ PANI/CuO photoelectrodes

Samples	**Pure CuO**	**PANI/CuO**	**Au/PANI/CuO**
	(Wt. %, At. %)	**(Wt. %, At. %)**	**(Wt. %, At. %)**
Au	-	-	24.58, 8.79
C	-	18.45, 22.15	16.21, 21.02
N	-	11.14, 12.12	9.11, 16.0
Cu	36.88, 22.87	24.15, 15.21	11.82, 8.21
O	40.9, 59.39	32.61, 40.2	29.92, 38.85
Si	17.69, 14.86	10.52, 8.91	6.82, 5.98
Al	0.76, 0.67	0.52, 0.39	0.3, 0.19
Ca	3.77, 2.22	2.61, 1.02	1.24, 0.96

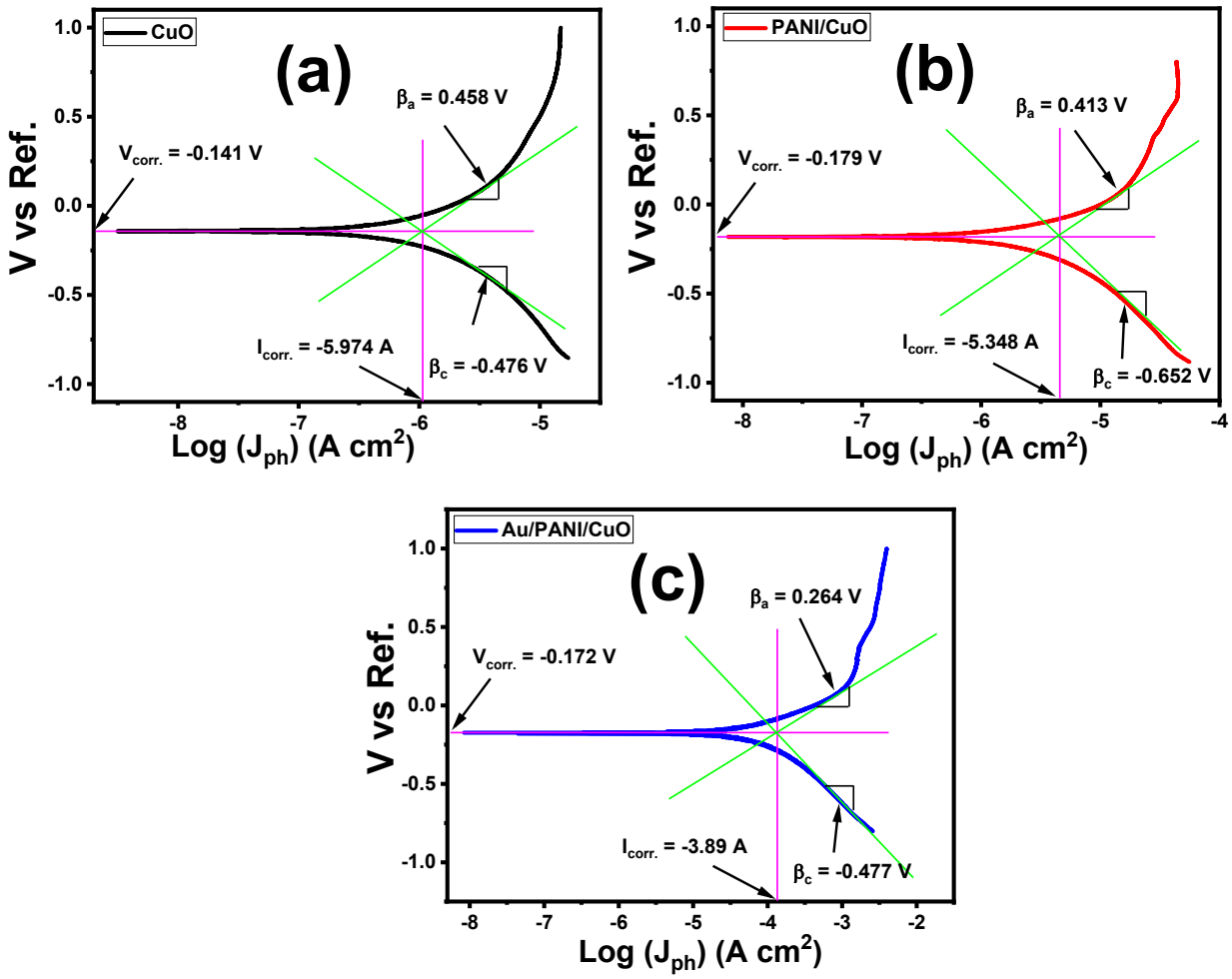

Figure S1. displays the Tafel plots for pure CuO, PANI/CuO, and Au/PANI/CuO photoelectrodes.

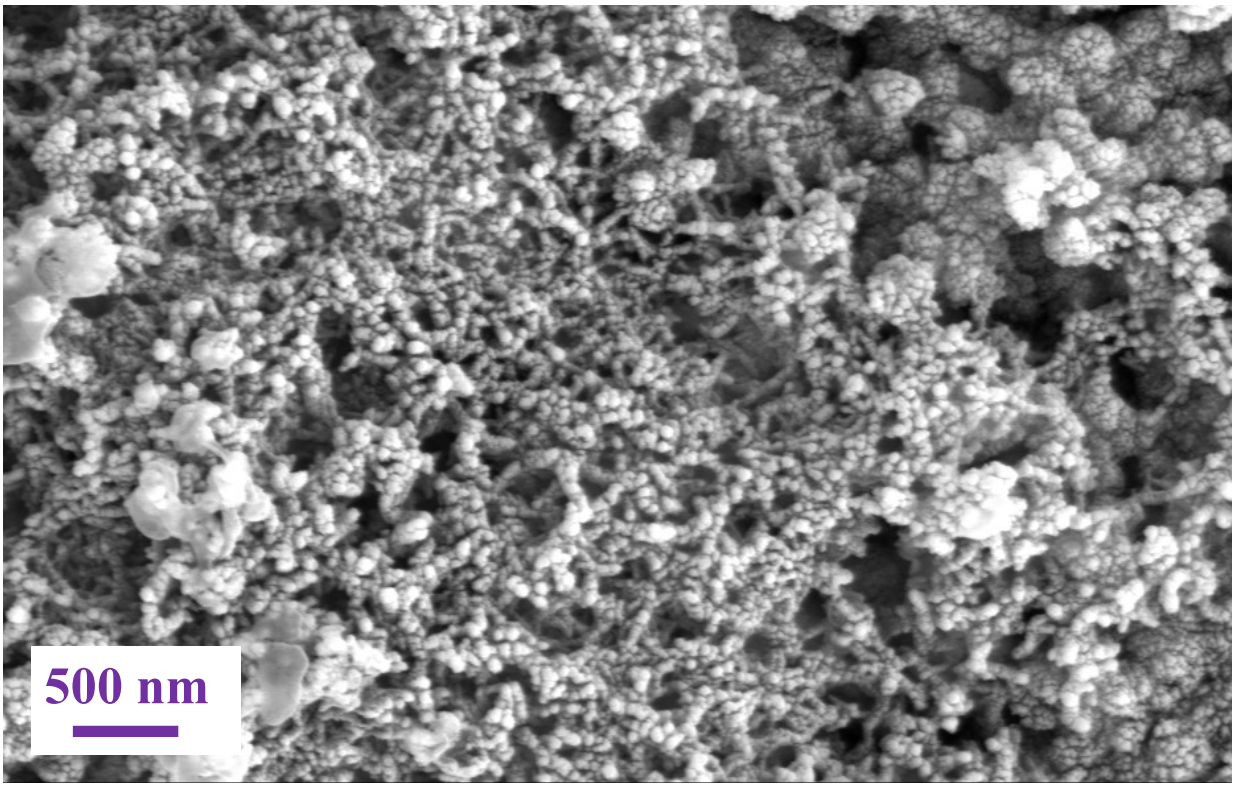

Figure S2. SEM image of Au/PANI/CuO photoelectrode on glass substrates after the PEC measurements.