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Influence of electrolyte composition on the semiconductor electrolyte interface (SEI) built-in for enhanced photoelectrochemical (PEC) processes

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Supplementary Information

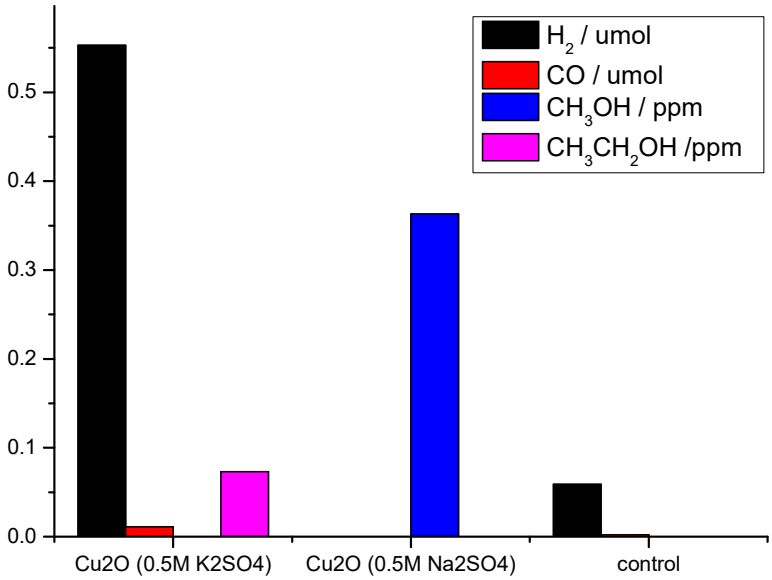

Figure S1. CO_2 reduction product distribution over Cu_2O in 0.5M K_2SO_4 saturated by CO_2 (on the left side of thr graph), Cu_2O in 0.5M Na_2SO_4 saturated by CO_2 (in the middle) and a control sample under dark (on the right side of the graph)

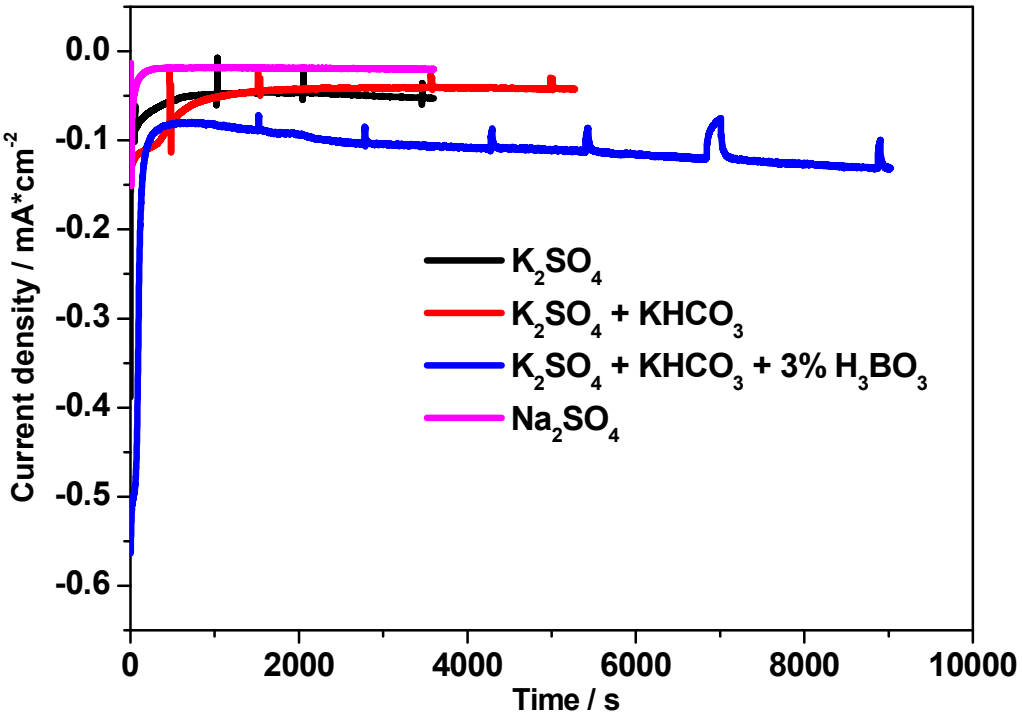

Figure S2. Chronoamperometric: photocurrent density versus time (i-t) curves recorded at the imposed potential of 0.3 V *vs* RHE in K_2SO_4 (black curve), K_2SO_4 + $KHCO_3$ (red curve) and K_2SO_4 + $KHCO_3$ + 3% H_3BO_3 (blue curve), K_2SO_4 (magenta curve) solutions saturated with CO_2