

Figure S1: Reference chemical image of the microfluidic structure recorded at an applied potential of -1.65 V in 0.33 mM PBS buffer, pH 7.0.

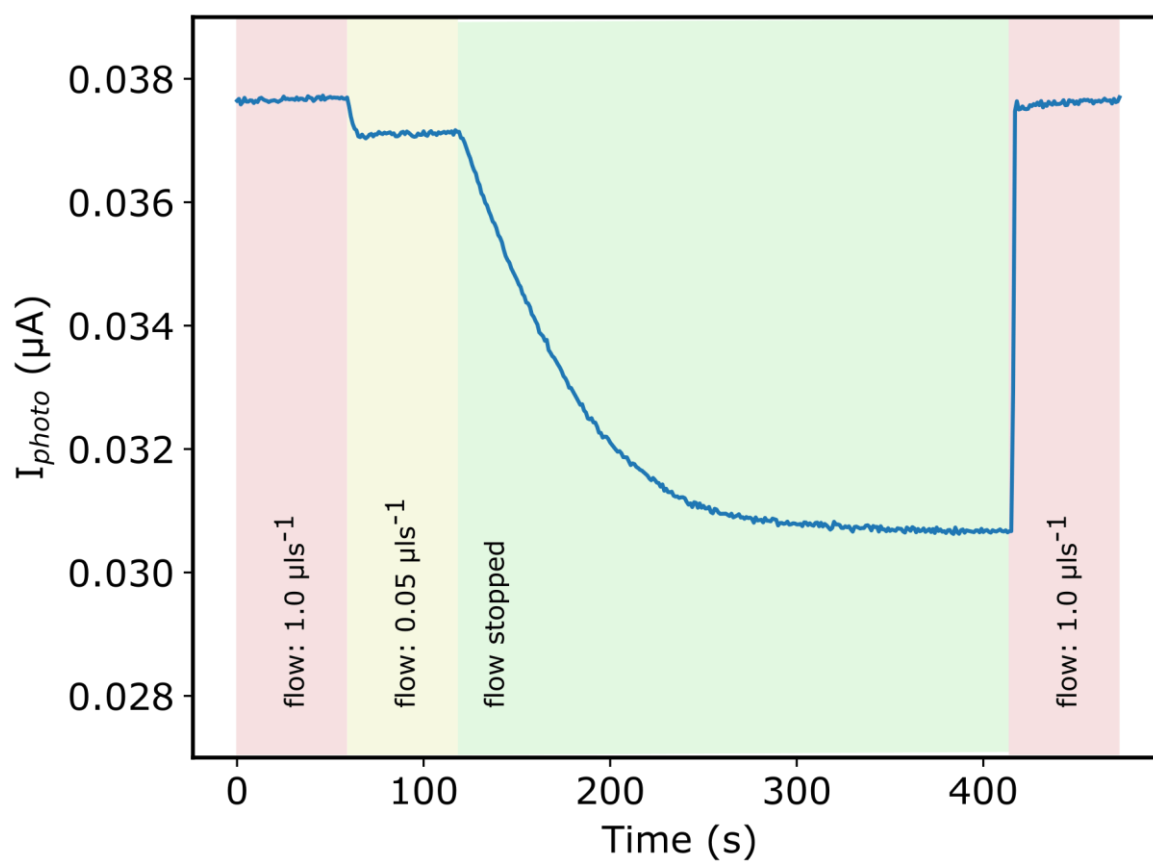


Figure S2: Photocurrent-time curve for 1.0 mM penicillin in PBS buffer, pH 7.1, for different flow rates.