

SUPPORTING INFORMATION

Plasmon-Enhanced Electrocatalytic Oxygen Reduction in Alkaline Media on Gold Nanohole Electrodes

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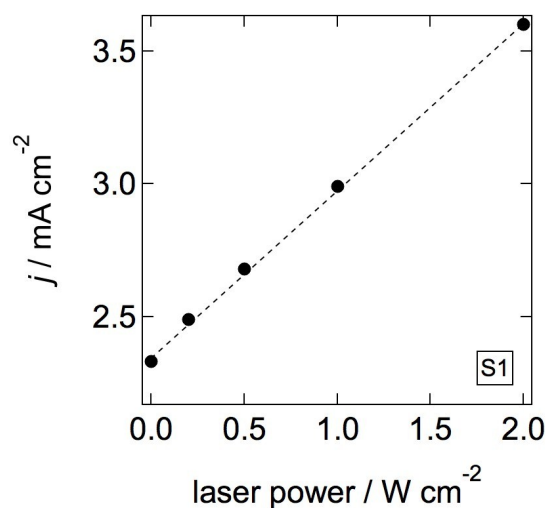


Fig. S1. Plasmon-enhanced electrochemical activity of nanoporated gold thin film electrodes (S1): Variation of the anodic peak current as a function of light intensity.

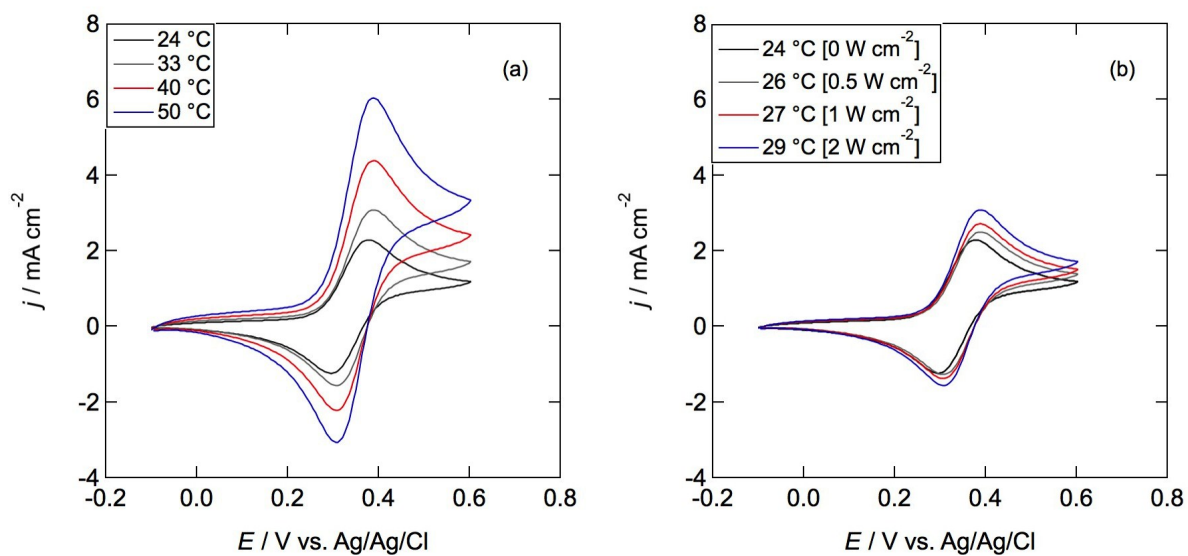


Fig. S2. Cyclic voltammograms recorded in ferrocenemethanol (10 mM)/KCl (0.1 M) solutions at (a) different temperatures and (b) under 808 nm laser irradiation from 0 to 2 W cm⁻². Scan rate is 100 mV s⁻¹.

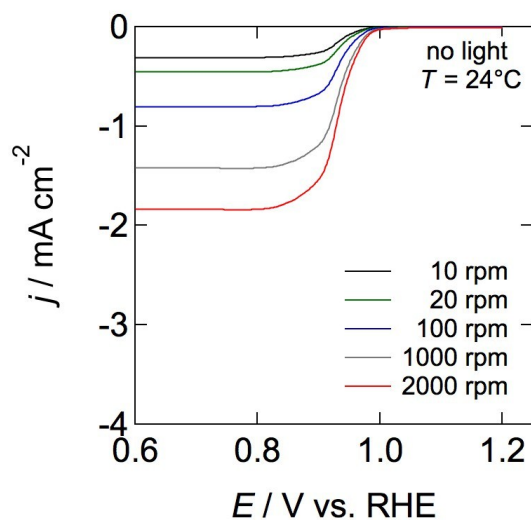


Fig. S3. Linear sweep voltammograms of S1 in O_2 -saturated 0.1 M NaOH solution in dark: Current density vs. potential curves of S1 in O_2 -saturated 0.1 M NaOH solution under recorded angular rotation rates of 10, 20, 100, 1000 and 2000 rpm. Scan rate = 25 mV s^{-1} , no light irradiation ($T = 24^{\circ}\text{C}$).