Supplementary Information

The Effect of Polymer Addition on Base Catalysed Glycerol Oxidation Using Gold and Gold-Palladium Bimetallic Catalysts.

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Figure S1 - Comparison of the glycerol oxidation activity for 1% wt AuPd/TiO$_2$ catalysts prepared stabiliser-free, PVA and PVP. Reaction conditions: glycerol 0.6 M, NaOH 1.2 M, 110 mg catalyst, 3 bar O$_2$, 60 °C, 1200 rpm, Gly/Au=500, total volume 10 mL. Legend: SF (⚫), PVA (▲), PVP (■); dotted lines - tartronate (TA) selectivity; dashed lines - glycerate (GA) selectivity.
Figure S2 – Glyceric acid oxidation conversion and selectivity profile for 1% wt AuPd/TiO$_2$-PVA catalyst. Reaction conditions: 110 mg catalyst, 60 °C, 3 bar O$_2$, 1200 rpm, GA/metal(s) = 500:1(mol), NaOH/GA = 2:1 (mol), total volume 10 mL. Legend: □ GA, ● TA (bold line), ● Glycolate (GLYA), ■ Oxalate (OXA), ▲ Formate (FA) (dotted lines)
