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## Supplementary Information

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

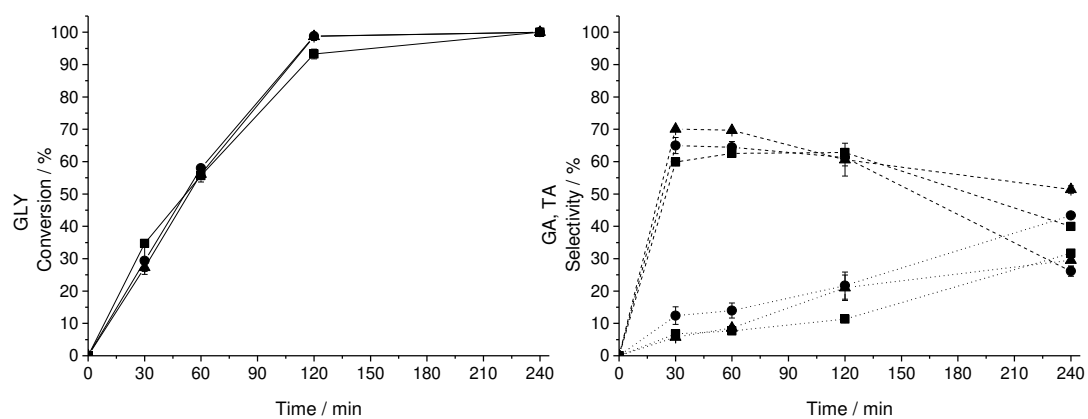
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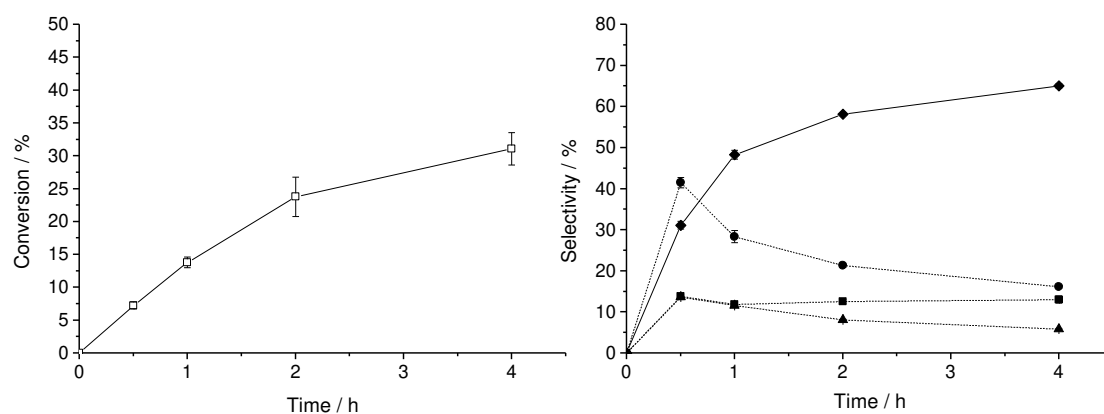
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**Figure S1** - Comparison of the glycerol oxidation activity for 1% wt AuPd/TiO<sub>2</sub> catalysts prepared stabiliser-free, PVA and PVP. *Reaction conditions:* glycerol 0.6 M, NaOH 1.2 M, 110 mg catalyst, 3 bar O<sub>2</sub>, 60 °C, 1200 rpm, 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<sub>2</sub>-PVA catalyst. *Reaction conditions:* 110 mg catalyst, 60 °C, 3 bar O<sub>2</sub>, 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)

