A graph of activity and activity

Description automatically generated

Figure 17 - The estimated activities based on two different calculations. Using all COOH binding energies (blue) and using only the COOH binding energies from on-top sites, which does not have a neighbouring hollow site, where H has a negative binding energy. These sites are assumed to be CO-poisoned due to the COOH+H disproportionation reaction, and are counted as a 0 in the activity sum.

A chart of content

Description automatically generated

Figure 19 – Ternary activity plot with 5% molar fractions of platinum, silver and gold. The highest activity found was 5.2\*10e-6 at the composition Pt0.8Ag0.2 at the potential (eU) of 0.07 V vs RHE.

In figure 17, the metals platinum, silver and gold has been chosen, with all 5% molar fractions

A pyramid of content

Description automatically generated with medium confidence

Figure 20 - figure

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A pyramid of content

Description automatically generated with medium confidence

Figure 21 - Ternary activity plot based on 5% molar fractions of palladium, gold, and silver. The optimal composition when restricted to the three selected metals is Pd0.9Au0.1 with a comparably low activity of 2.4\*10e-10 at a potential (eU) of 0.2 V vs RHE.

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