The genesis of a heterogeneous catalyst: *in-situ* observation of a transition metal complex adsorbing onto an oxide surface in solution

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Supporting Information
Effect of the pH 12 solution on the Al₂O₃ surface roughness

Figure S1. AFM images of the surface of an Al₂O₃-covered quartz crystal before any treatment

Figure S2. AFM image of the same crystal after placing it for 5 minutes in a NaOH solution at pH = 12. The surface roughness has noticeably increased.
Table S1. Root mean square roughness values, in nanometers, for all of the images taken before and after placing the Al₂O₃-covered quartz crystal in a pH 12 solution of NaOH.

\[
\begin{array}{lcc}
\text{R}_q \text{ (nm)} & \text{Before pH = 12} & \text{After pH = 12} \\
\hline
\text{Image 1} & 1.27 & 1.49 \\
\text{Image 2} & 1.21 & 1.57 \\
\text{Image 3} & 1.12 & 1.31 \\
\text{Image 4} & 1.35 & 1.47 \\
\text{Average} & \textbf{1.24} & \textbf{1.46} \\
\end{array}
\]