Appendix A. Supplementary data

Catalytic Oxidation of Formaldehyde in water by Calcium Phosphate-based Pt Composites

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\begin{equation}
\begin{array}{c}
\text{Formaldehyde} + 2 \text{Acetylacetone} + \text{NH}_4^+ \xrightarrow{\Delta} \text{3,5-diacetyl-1,4-dihydrolutidine} + 3 \text{H}_2\text{O} + \text{H}^+
\end{array}
\end{equation}

\textbf{Scheme S1.} Chemical reaction of HCHO with colorimetric agent (CA) for HCHO detection.
Figure S1. A UV-Vis absorption spectrum of a mixed solution of HCHO (4.7 ppm) and CA.

Figure S2. A standard calibration curve of HCHO prepared from HCHO stock solutions of 10, 100, and 1000 ppm.
Figure S3. Replotting of Figure 3 and 6 based on equation (2).