



**Supplemental Figure S1.** Coloration of the reaction solution 60 min after the start of Fenton reaction.

The reaction solution contained supersaturated H<sub>2</sub> water or tap water (0.5 mL); 100 mmol HEPES buffer (pH 7.5, 0.05 mL)/L; 0.1 mmol /L; 10 mmol EDTA (0.05 mL)/L; 10 mmol L-ascorbic acid (0.05 mL)/L; and 5 mmol L-phenylalanine (0.25 mL)/L. The Fenton reaction was initiated by adding 50 mmol H<sub>2</sub>O<sub>2</sub>/L (0.05 mL) at 25 °C. A platinum colloid solution [Pt (+), 10 mmol/L] was added to the above reaction in a final concentration of 50 μmol/L.