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2 Fig. S1 Changes in pH(a) and TOC(b) content during the course of the reaction process.

3 Section 1: To mitigate interference from suspended solids and color in the acidic wastewater,

4 samples for OD₆₀₀ measurement were first centrifuged at 10,000 × g for 5 minutes to pellet cells

5 and particulates. The supernatant was discarded, and the pellet was gently resuspended in an equal

6 volume of sterile phosphate-buffered saline (PBS, pH 7.0) prior to measurement.

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