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## Synthesis of visible-light active V<sub>2</sub>O<sub>5</sub>/g-C<sub>3</sub>N<sub>4</sub> heterojunction as an efficient photocatalytic and photoelectrochemical performance

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**Fig. S1** A control test in the absence of catalyst for the dye alone  $(5x10^{-5} \text{ M})$  for about 2 hours of visible light irradiation.