

# Supplementary Materials for: The enzyme-like property and photocatalytic effect on DPPH of CuPt nanocomposite

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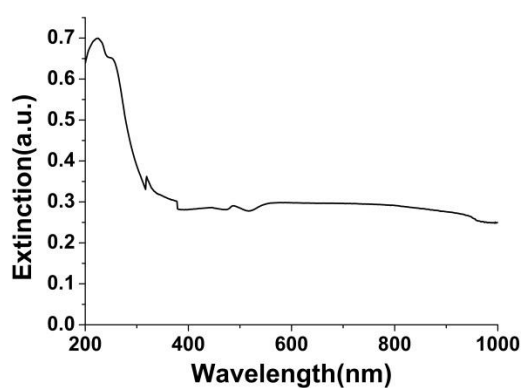
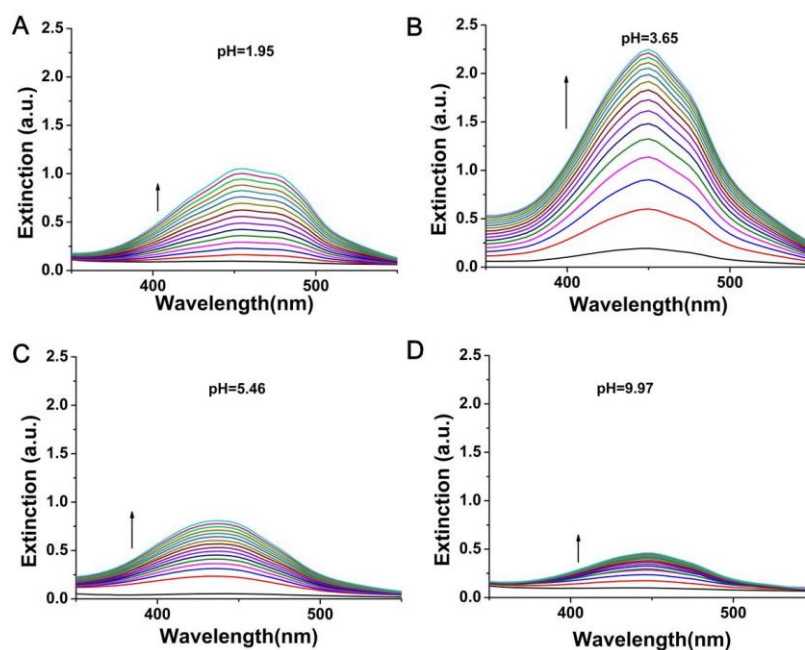
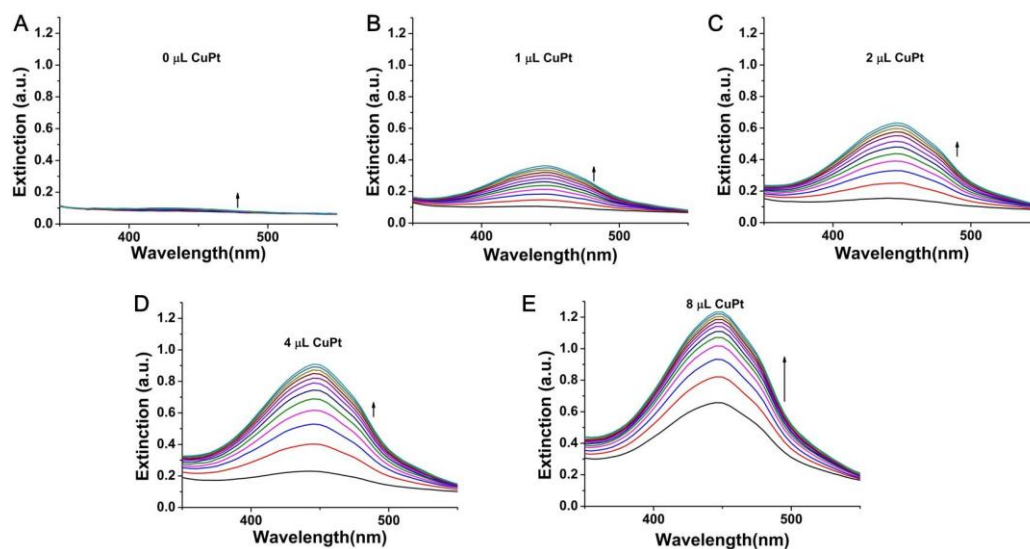


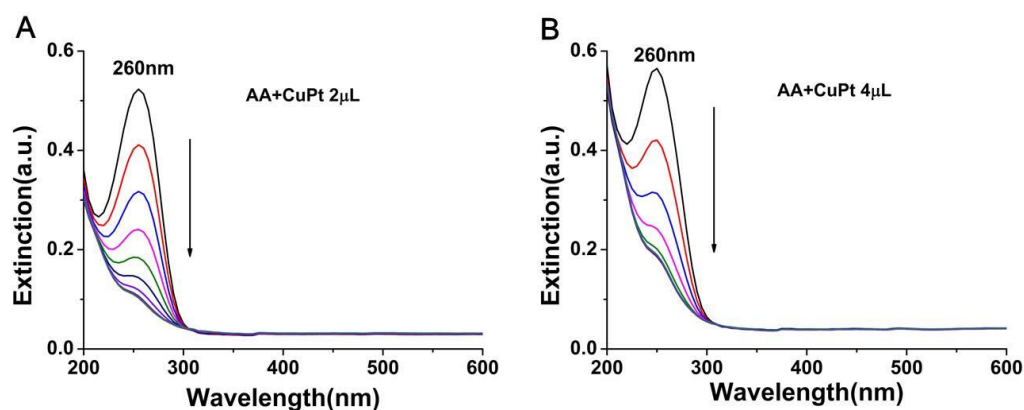
Figure S1. UV-Vis-NIR spectra of CuPt.



**Figure S2.** Extinction spectra of OPD in the presence of 1  $\mu\text{L}$  CuPt in PBS with different pH. The solutions contain 4.60 mM OPD and 0.50 M  $\text{H}_2\text{O}_2$  for all.



**Figure S3.** Extinction spectra of OPD with different concentrations of CuPt in PBS (pH = 3.65). The solutions contain 4.60 mM OPD and 0.50 M  $\text{H}_2\text{O}_2$  for all. The volumes of CuPt were (A) 0  $\mu\text{L}$ , (B) 1  $\mu\text{L}$ , (C) 2  $\mu\text{L}$ , (D) 4  $\mu\text{L}$ , and (E) 8  $\mu\text{L}$ .



**Figure S4.** Extinction spectra of AA with different concentrations of CuPt. The solutions contain 57  $\mu\text{M}$  AA and CuPt with (A) 2  $\mu\text{L}$ , (B) 4  $\mu\text{L}$ .

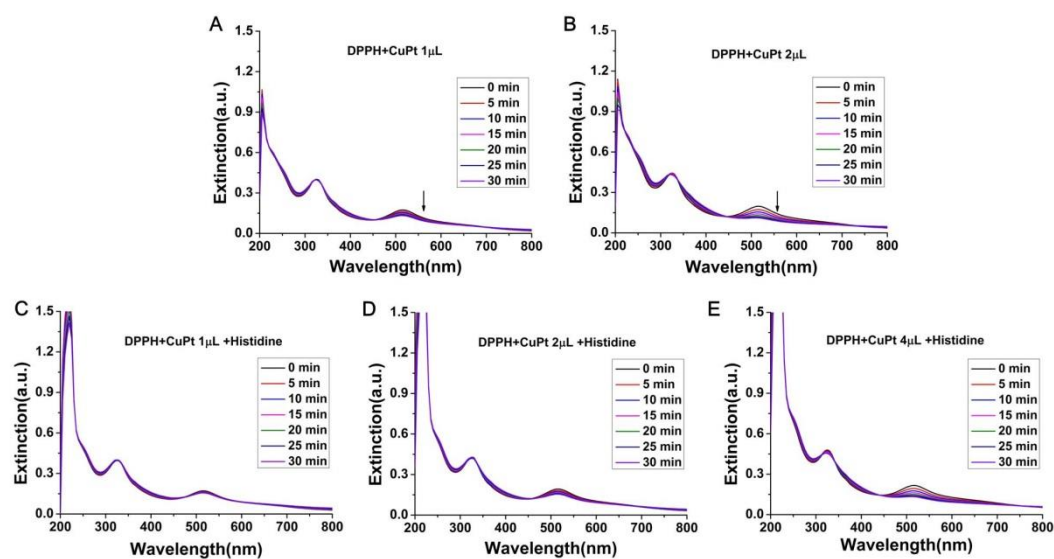


Figure S5. UV-Vis-NIR spectra of DPPH after incubation with different concentration of CuPt (A, B) without and (C, D, E) with histidine. [DPPH] = 25  $\mu$ M, and [histidine] = 6.40 mM. The volumes of CuPt were (A, C) 1  $\mu$ L, (B, D) 2  $\mu$ L, and (E) 4  $\mu$ L.

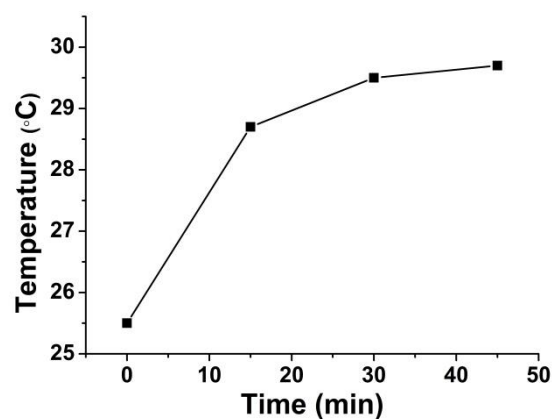


Figure S6. Temperature curve of solution containing DPPH and 1  $\mu$ L CuPt.