



**Figure S1** UV-Vis spectrum of the reacting solution indicating the presence of Cu(III) peak at 415 nm at  $[DPC] = 1.75 \times 10^{-5} \text{ M}$ ,  $[OH^-] = 0.02 \text{ M}$ ,  $[L\text{-leucine}] = 2.75 \times 10^{-4} \text{ M}$ ,  $[Ru^{3+}] = 2.5 \times 10^{-6}$ ,  $I = 0.1 \text{ M (KNO}_3\text{)}$ , Temp = 298 K,  $[IO_4^-] = 5.5 \times 10^{-4} \text{ M}$ ,  $[CPC] = 6.0 \times 10^{-3} \text{ M}$