

Figure 4. Overlay of X-ray structure of $[\text{Ni}(\text{L2b})]^{2+}$ (solid) and $[\text{Cu}(\text{L2b})]^{2+}$ (dotted). The atom numbering scheme (identical for both complexes) is the same as that shown in Fig 2.

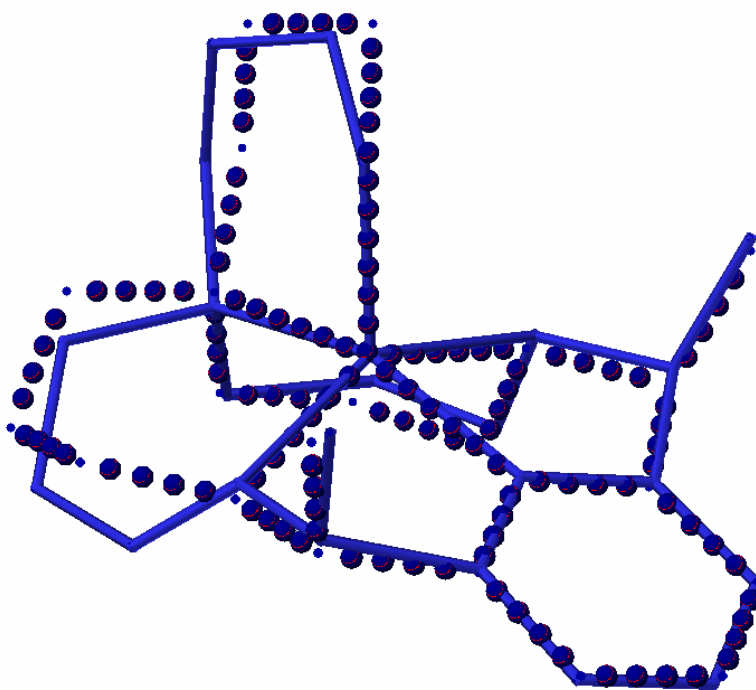


Figure 5. Overlay of X-ray structure of $[\text{Ni}(\text{L2a})]^{2+}$ (solid) and $[\text{Cu}(\text{L2a})]^{2+}$ (dotted). The atom numbering scheme (identical for both complexes) is the same as that shown in Fig 1.

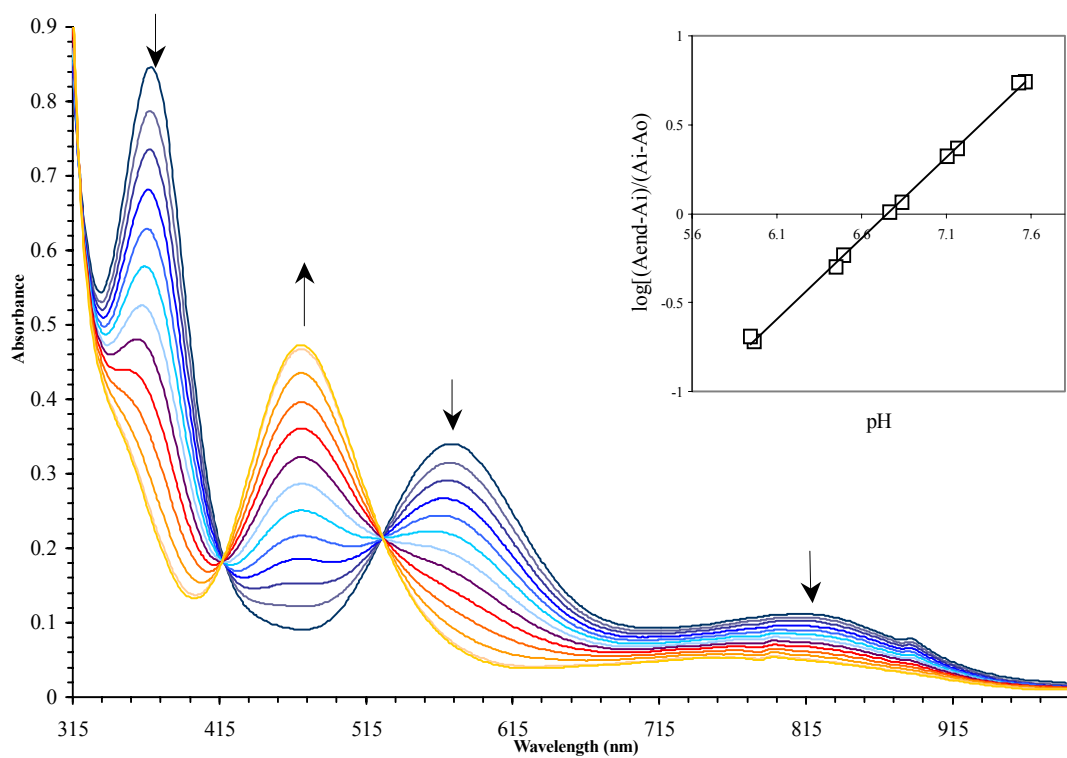


Figure 7. UV- Visible spectrum of the arm on/off behavior of $[\text{Ni}(\text{L2a})]^{2+}$. Concentration of initial $[\text{Ni}(\text{L2a})](\text{ClO}_4)_2$ solution 0.006 M. The initial 2 mL of solution was titrated with 12 additions of 0.5 μL of 1.100 M HClO_4 . The final acid concentration was 0.003 M.