

To investigate the sensibility effect of the biogenic Ag-NPs toward Pb^{2+} and Cu^{2+} -metal ions, lead and cupric ions solutions with concentrations of 10^{-3} , 10^{-4} and 10^{-5} M were added to the Ag-NPs solution. For example, the addition of 10^{-3} M of Pb^{2+} resulted in a bathochromic shift of the plasmon absorption of 14 nm, from 400 to 414nm; however, with less concentration of the metal ions the shift diminish, from 400 to 411nm and from 400 to 408nm with concentrations of 10^{-4} and 10^{-5} M, respectively. These results are shown in Figure 7.