

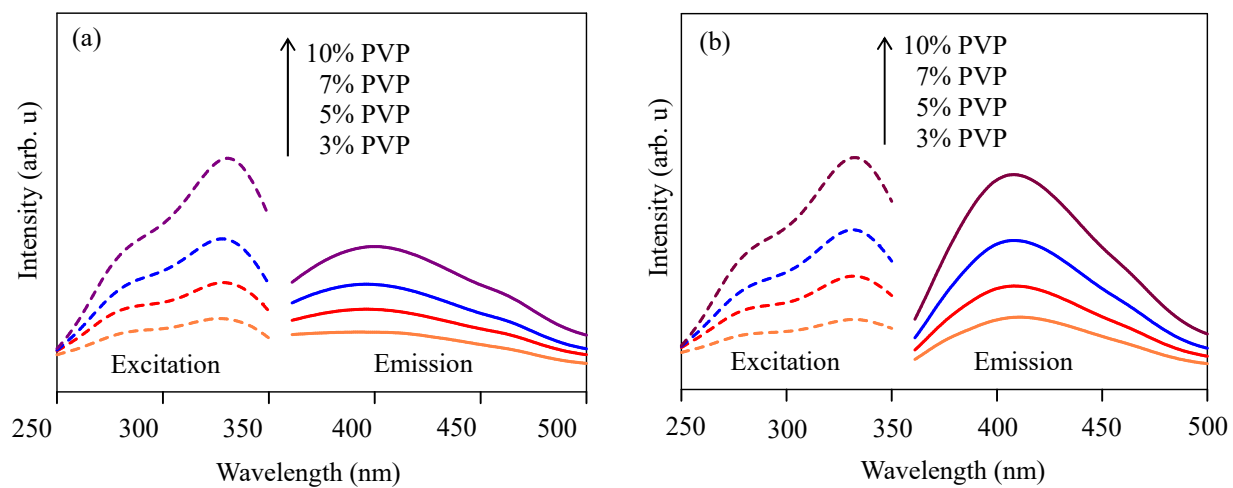


Figure 1 Excitation and emission spectra for 3, 5, 7 and 10% of PVP at (a) C=O and (b) N-C sensing sites

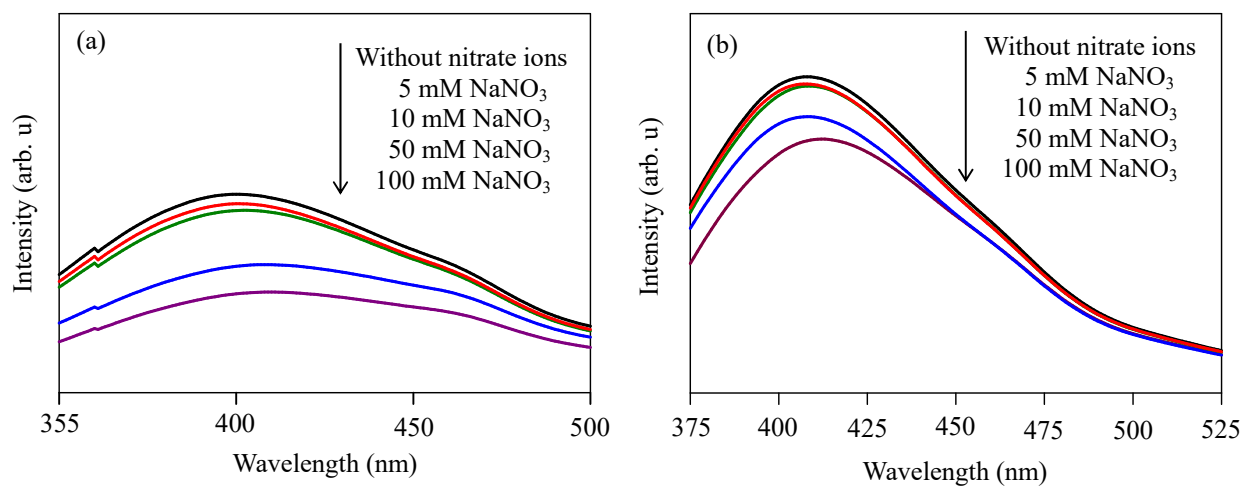


Figure 2 Emission spectra of 7% PVP with the absence and presence of nitrate ions in the 5-100 mM range for C=O sites and N-C sites, monitored at excitation wavelength of (a) 285 nm and (b) 330 nm

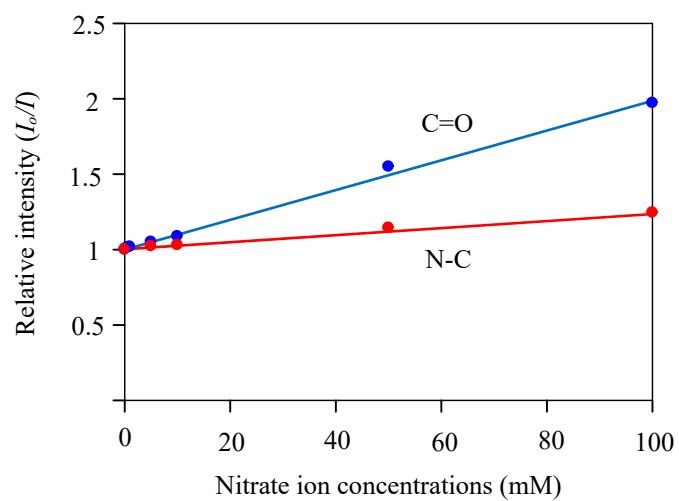


Figure 3 Linear Stern-Volmer plots for 7% PVP at C=O (●) and N-C (●)

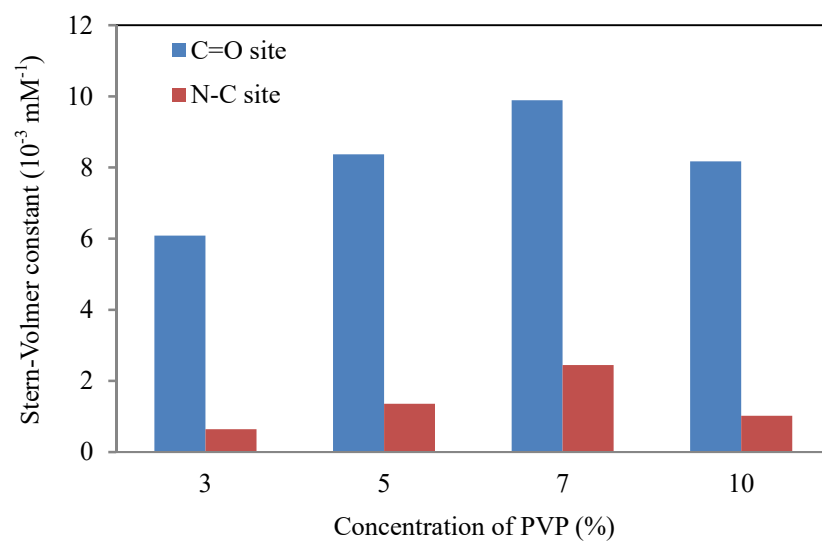


Figure 4: Stern-Volmer constants for nitrate ions detection on PVP with various concentrations for both C=O and N-C sites

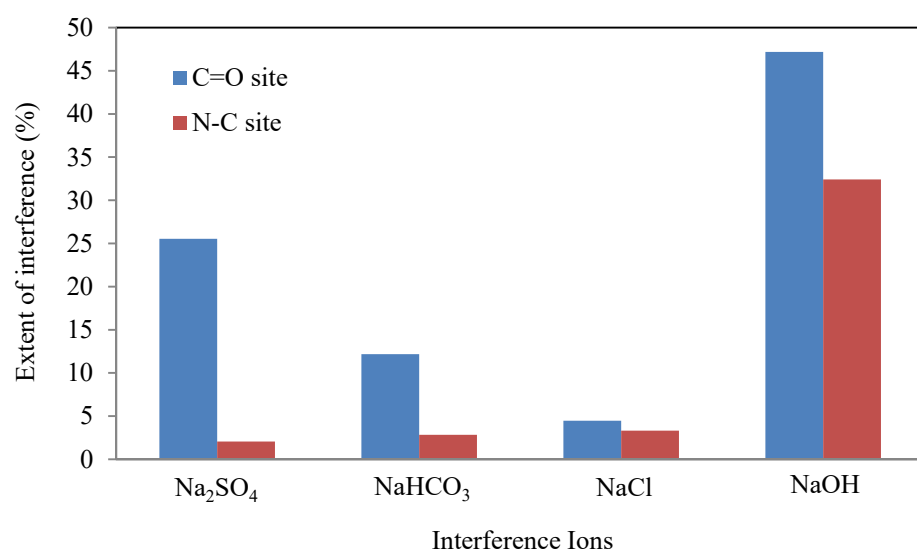


Figure 5 Extent of interferences of ions towards nitrate ions detection on 7% PVP