

A new family of macrocyclic polyamino biphenolic ligands: acid-base study, Zn(II) coordination and glyphosate/AMPA binding

Supplementary Material

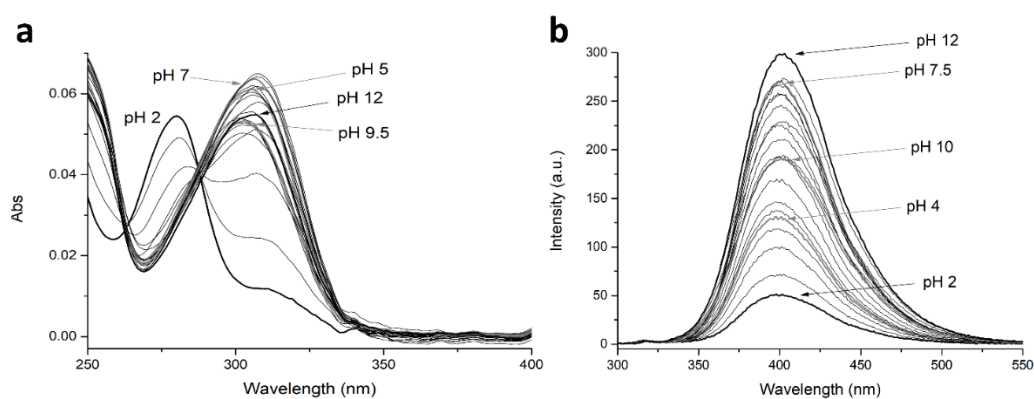


Figure S1. a) Absorption and b) fluorescence spectra of **L1** at different pH values. [**L1**] = 1×10^{-5} M, λ_{ex} = 288, λ_{em} = 403 nm.

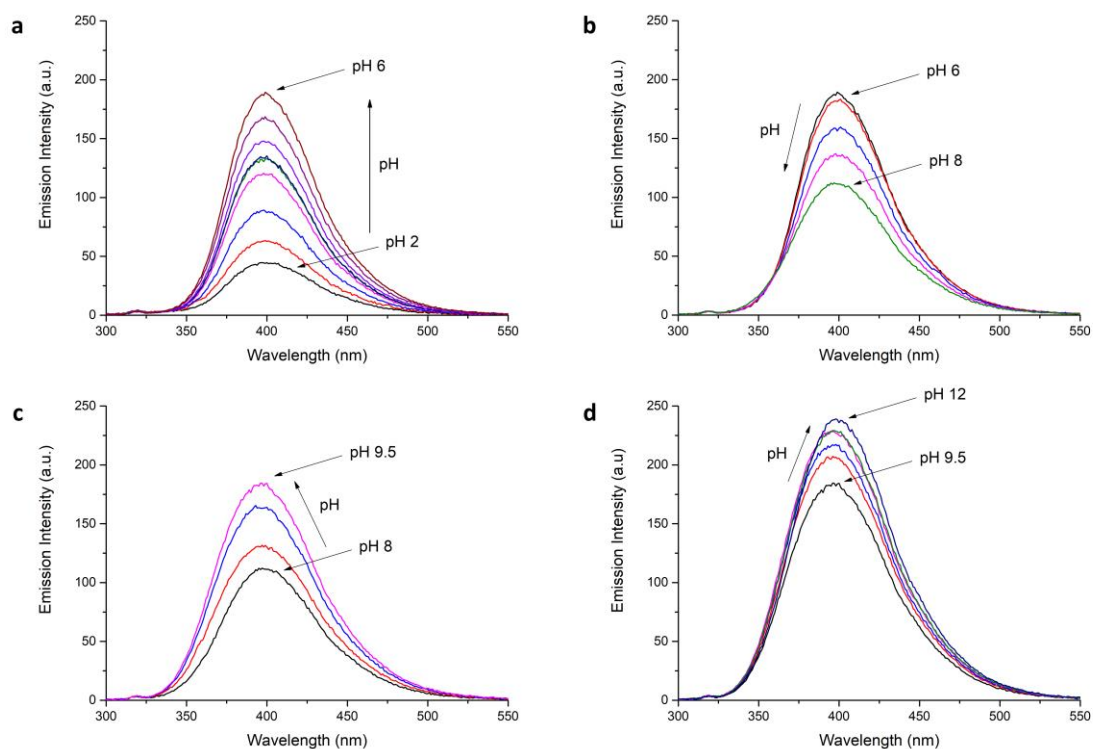


Figure S2. Fluorescence spectra of **L1** + 1 equiv. of Zn(II) at different pH values (λ_{ex} 288 nm).

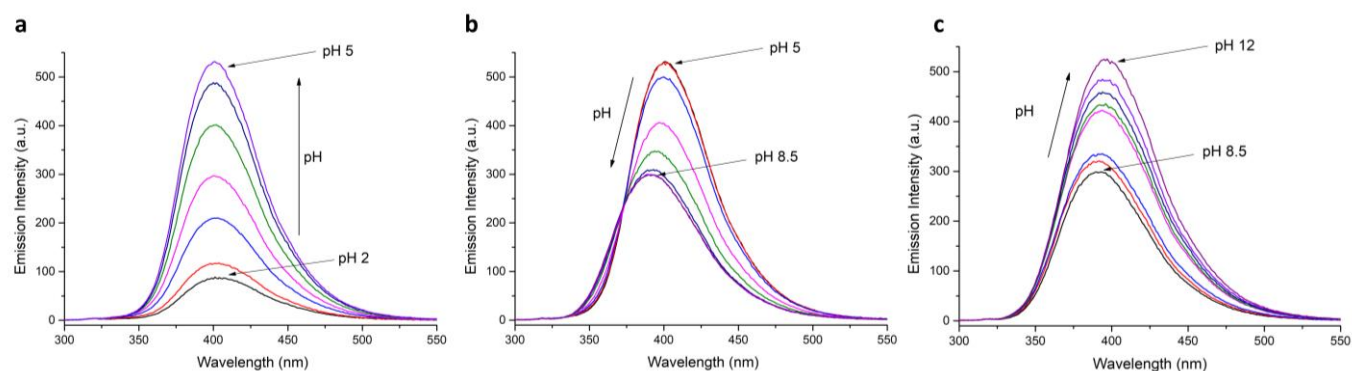


Figure S3. Fluorescence spectra of **L2** + 1 equiv. of Zn(II) at different pH values (λ_{ex} 288 nm).

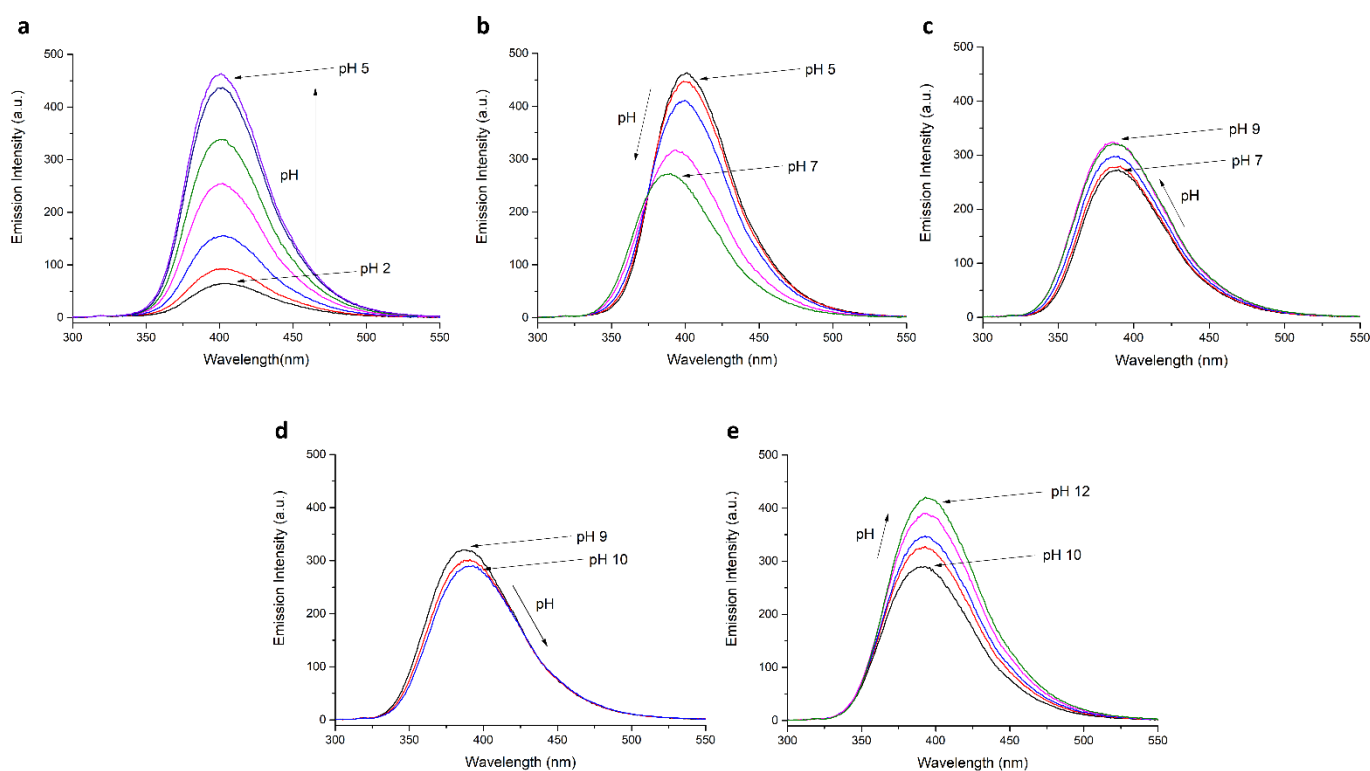


Figure S4. Fluorescence spectra of **L2** + 2 equiv. of Zn(II) at different pH values (λ_{ex} 288 nm).

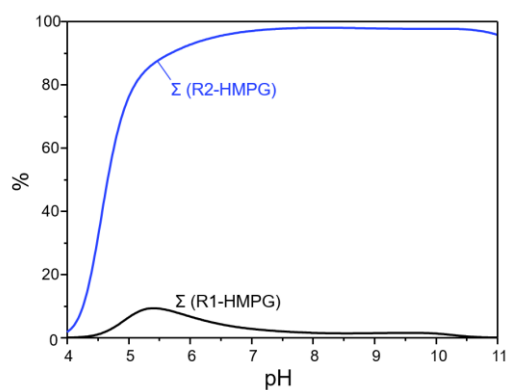


Figure S5. Selectivity diagrams showing the affinity of glyphosate ($HPMG^{2-}$) with the mononuclear $Zn(II)$ complex species of **L1** and **L2** ($R1$ and $R2$, respectively) as a function of pH. Percentages were calculated with respect to ligand concentrations ($[R1] = [R2] = [HPMG] = 1 \times 10^{-3}$ M, $R1 = \Sigma Zn(II)$ -mononuclear species of **L1** bound and $R2 = \Sigma Zn(II)$ -mononuclear species of **L2** bound).