Supplementary Material (ESI) for New Journal of Chemistry

Supplementary Information for

Ruthenium(II) complexes of 6-hydroxyl-dipyrido[3,2-a:2′,3′-c]phenazine: self association, and concentration-dependent acid-base and DNA-binding properties

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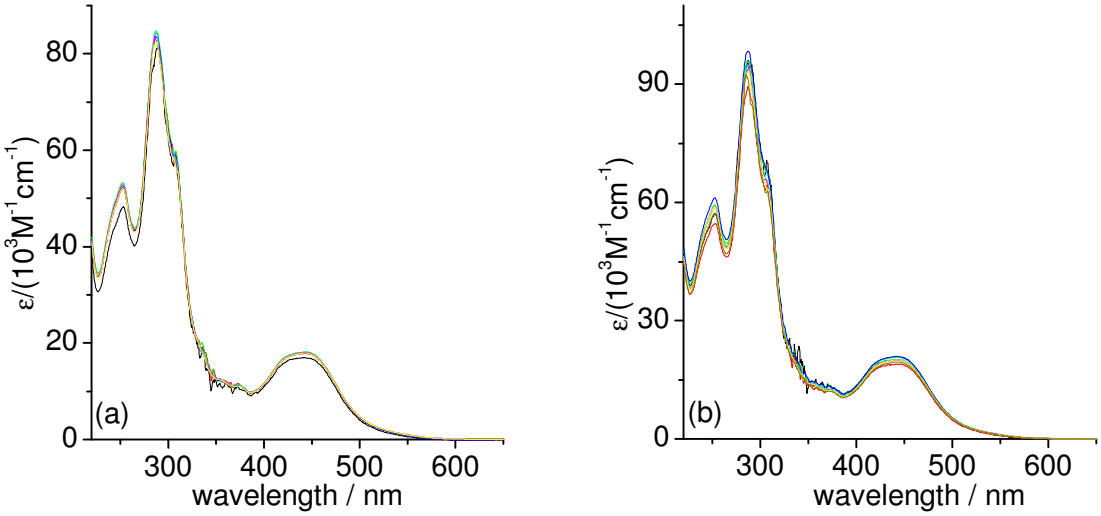

Figure S1. The changes in UV-visible spectra upon increasing the concentrations (0–25.0 μM) of $[Ru(bpy)_2(hdppz)]Cl_2$ (a) and $[Ru(bpy)_2(hdppz)](PF_6)_2$ (b) in 5 mM Tris-HCl (50 mM NaCl) at pH = 7.0.

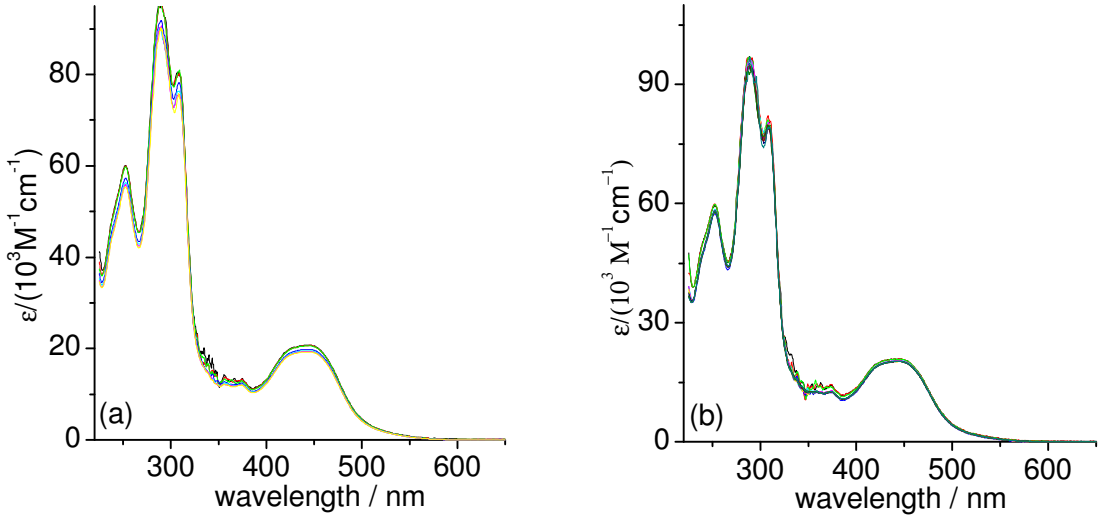

Figure S2. The changes in UV-visible spectra upon increasing the concentrations (0–25.0 μM) of $[Ru(bpy)_2(hdppz)]Cl_2$ (a) and $[Ru(bpy)_2(hdppz)](PF_6)_2$ (b) in MeCN.

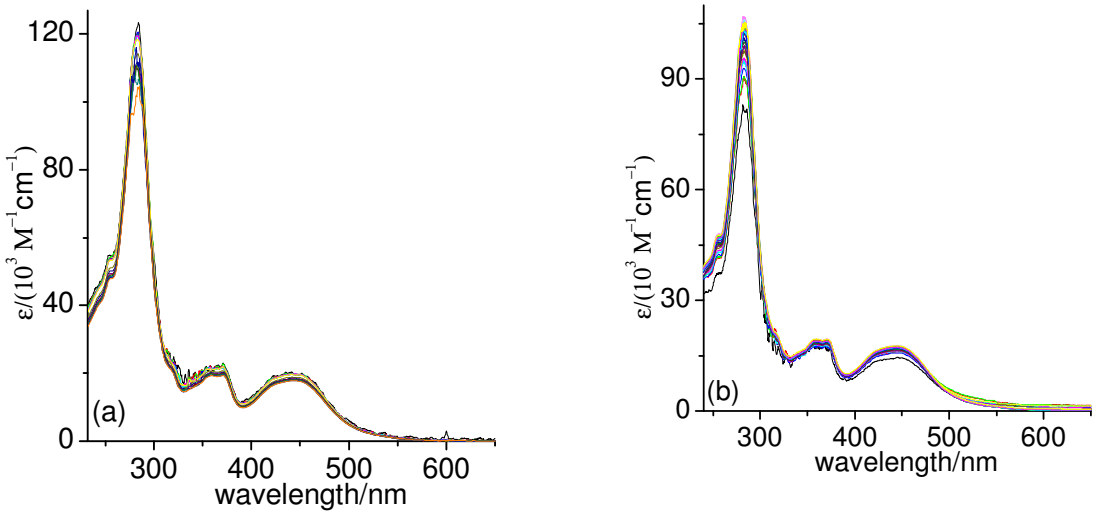

Figure S3. The changes in UV-visible spectra upon increasing the concentrations (0–25.0 μM) of $[Ru(bpy)_2(dppz)]Cl_2$ (a) and $[Ru(bpy)_2(dppz)](ClO_4)_2$ (b) in 5 mM Tris-HCl (50 mM NaCl) at pH = 7.0.

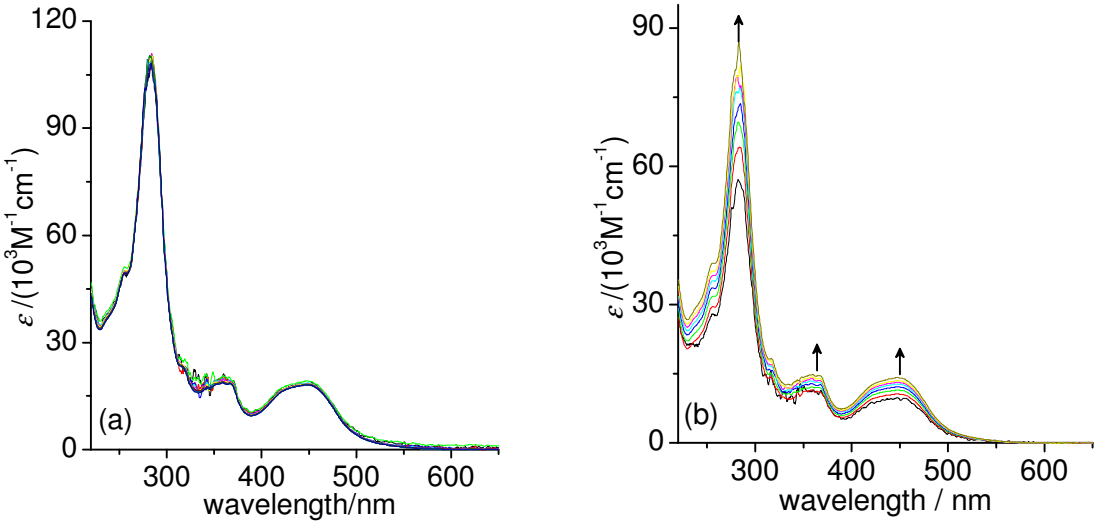

Figure S4. The changes in UV-visible spectra upon increasing the concentrations (0–25.0 μM) of $[Ru(bpy)_2(dppz)]Cl_2$ (a) and $[Ru(bpy)_2(dppz)](ClO_4)_2$ (b) in MeCN.

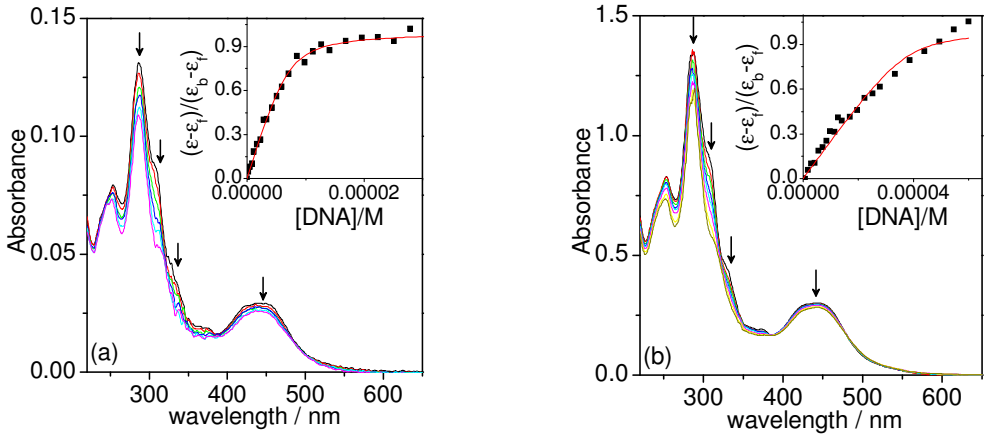

Figure S5. The changes in UV-visible spectra of $[Ru(bpy)_2(hdppz)]Cl_2$ at 1.6 μM (a) and 16.4 μM (b) with increasing concentrations of ct-DNA. Arrows show spectral changes upon increasing DNA concentrations.

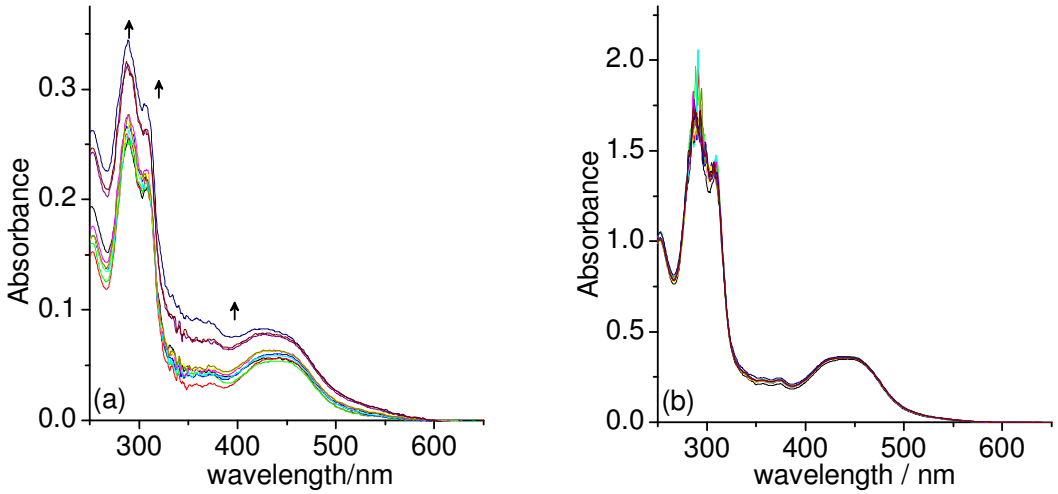

Figure S6. The changes in UV-visible spectra of $[Ru(bpy)_2(hdppz)]Cl_2$ in MeCN at 0.63 μM (a) and 17.6 μM (b) with increasing concentrations of $NaClO_4$ (0.1-1.0 M).