Figure S1. Electronic spectrum of $[{Os(PPh_3)_2(pap)}_2(ca)]^{2+}$ complex in acetonitrile solution.

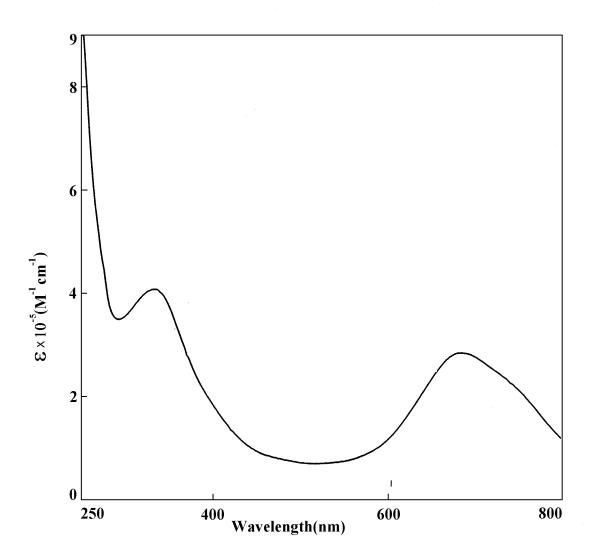


Figure S2. Electronic spectrum of $[{Os(PPh_3)_2(pap)}_2(ca)]^{2+}$ complex in acetonitrile solution.

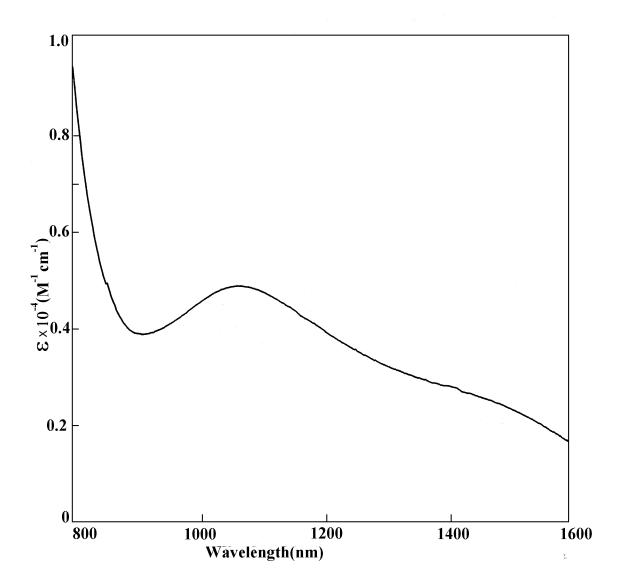


Figure S3. Electronic spectrum of $[{Os^{II}(PPh_3)_2(pap) Os^{III}(PPh_3)_2(pap)}](ca)]^{3+}$ complex in acetonitrile solution.

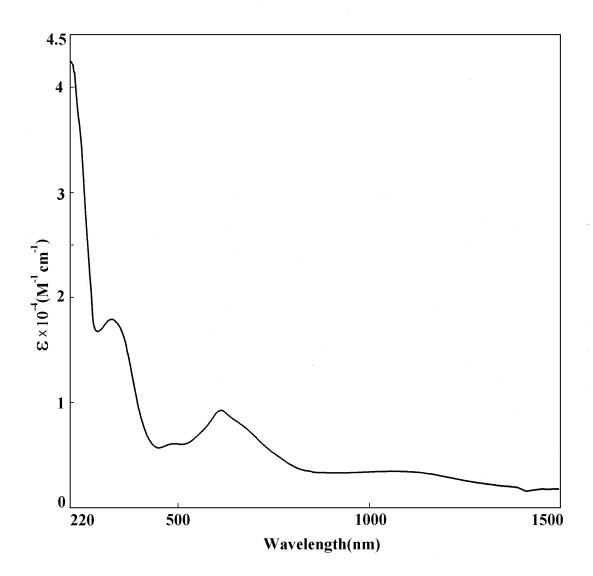


Figure S4. Electronic spectrum of $[{Os^{II}(PPh_3)_2(pap) Os^{III}(PPh_3)_2(pap)}(ca)]^{3+}$ complex in acetonitrile solution.

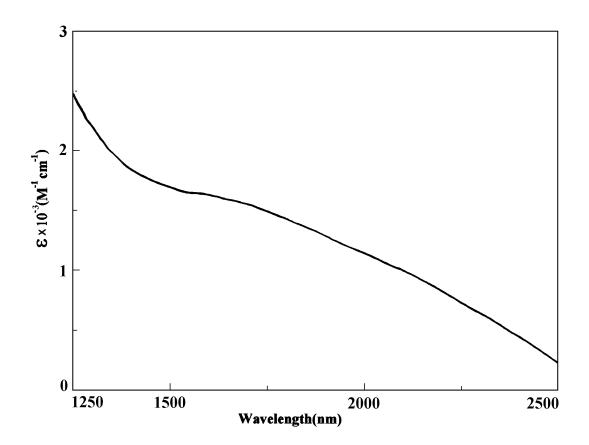


Figure S5. Electronic spectrum of [{Os(PPh₃)₂(pap) (ca)] complex in acetonitrile solution.

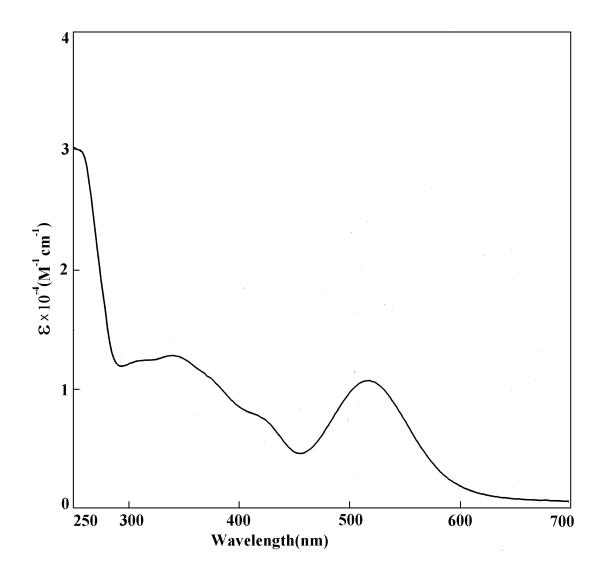


Figure S6. Electronic spectrum of [{Os(PPh₃)₂(pap)(ca)] complex in acetonitrile solution.

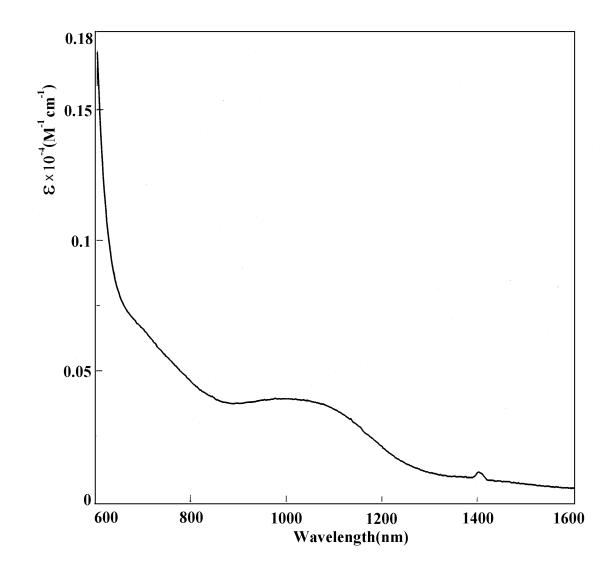


Figure S7. Electronic spectrum of $[{Os(PPh_3)_2(CO)}_2(r-ca)]$ complex in 1:9 dichloromethane-acetonitrile solution.

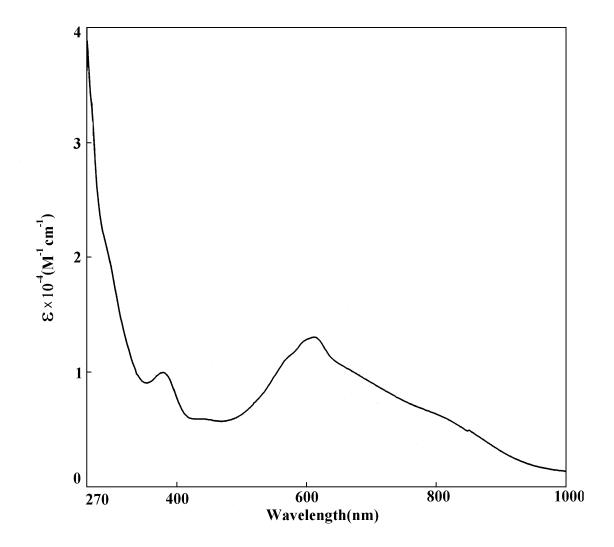


Figure S8. Cyclic voltammogram of $[{Os(PPh_3)_2(pap)}_2(ca)]^{2+}$ complex in acetonitrile solution (0.1 M TBAP) at a scan rate of 50 mVs⁻¹.

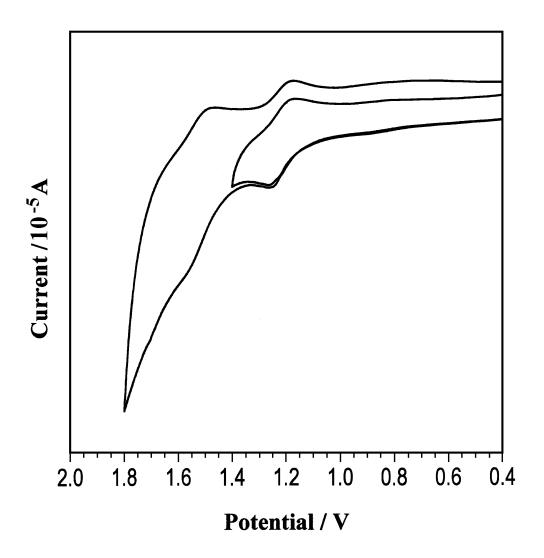


Figure S9. Cyclic voltammogram of $[Os(PPh_3)_2(pap)(ca)]$ complex in acetonitrile solution (0.1 M TBAP) at a scan rate of 50 mVs⁻¹.

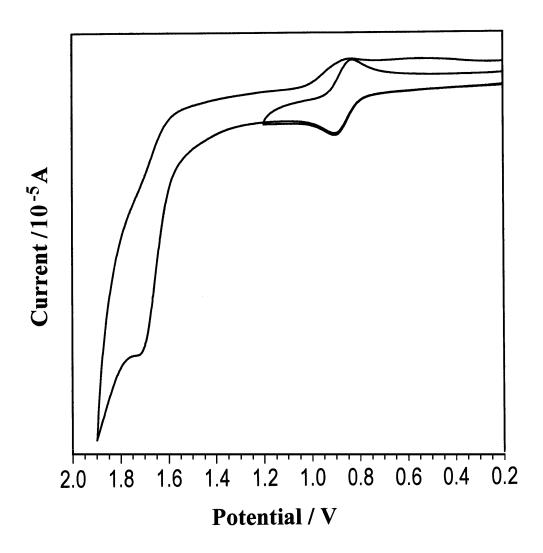


Figure S10. Cyclic voltammogram of $[{Os(PPh_3)_2(CO)}_2(r-ca)]$ complex in 1:9 dichloromethane-acetonitrile solution (0.1 M TBAP) at a scan rate of 50 mVs⁻¹.

