

Supplementary Information

Tuning Emitting Color of Electroluminescent Devices Containing Tris(2-acyl-1,3-indandionate)aluminum(III) Complexes as Emitting Layers

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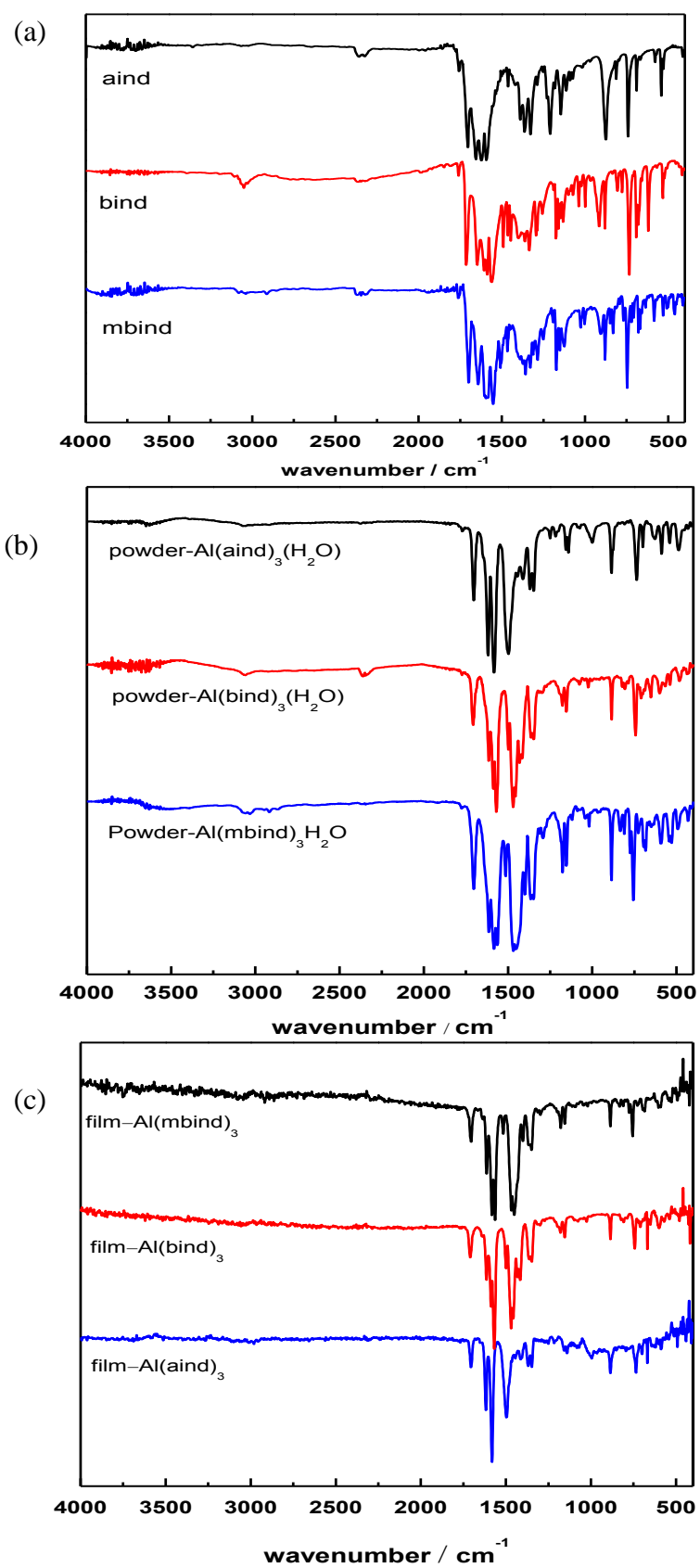


Figure S1. Infrared spectra (KBr) of the (a) 2-acyl-1,3-indandionate ligands (acind); (b) Al(mbind)₃(H₂O) complexes as powder form; (c) Al(aind)₃, Al(bind)₃ and Al(mbind)₃ complexes in thin film form.

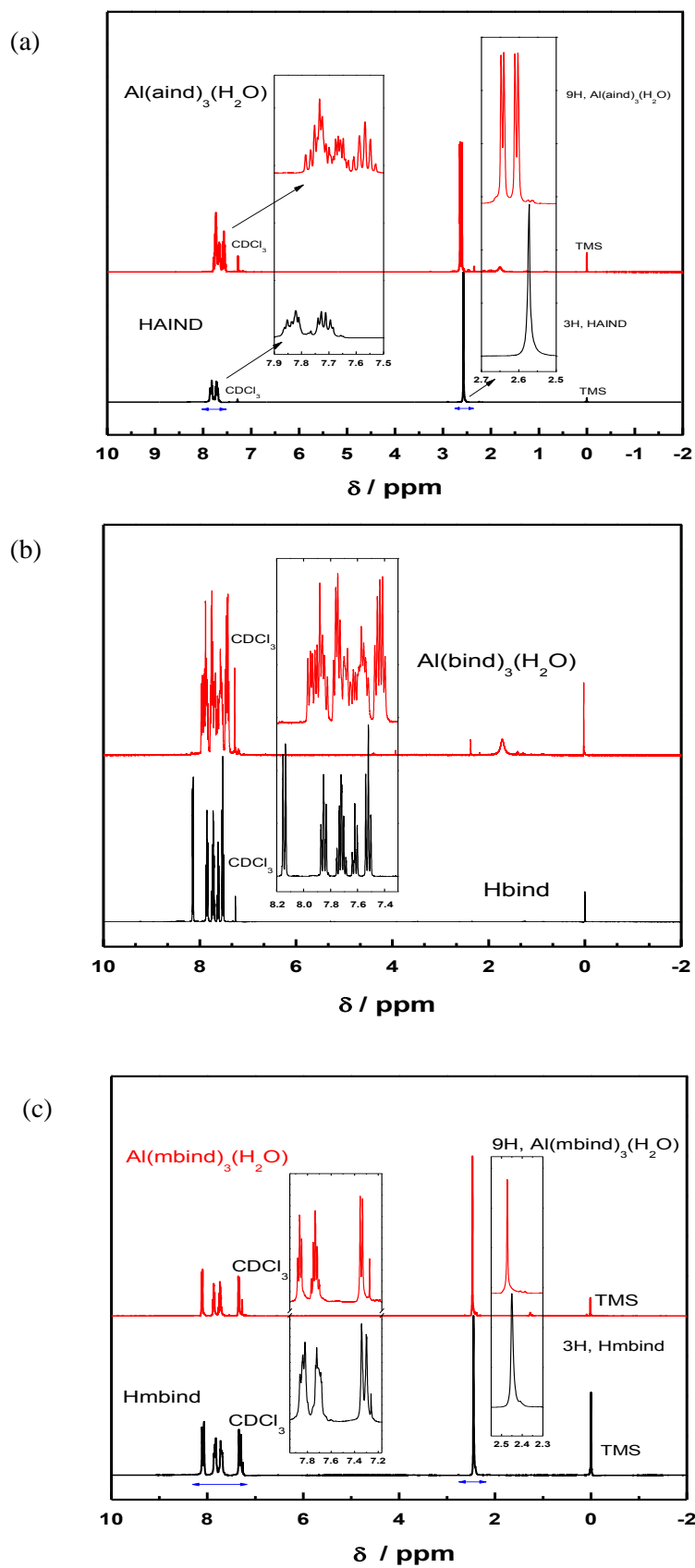


Figure S2. ¹H NMR spectrum of the Al(acind)₃ complexes in deuterated chloroform solutions, 400 MHz: (a) Al(aind)₃(H₂O), (b) Al(bind)₃(H₂O) and (c) Al(mbind)₃(H₂O).

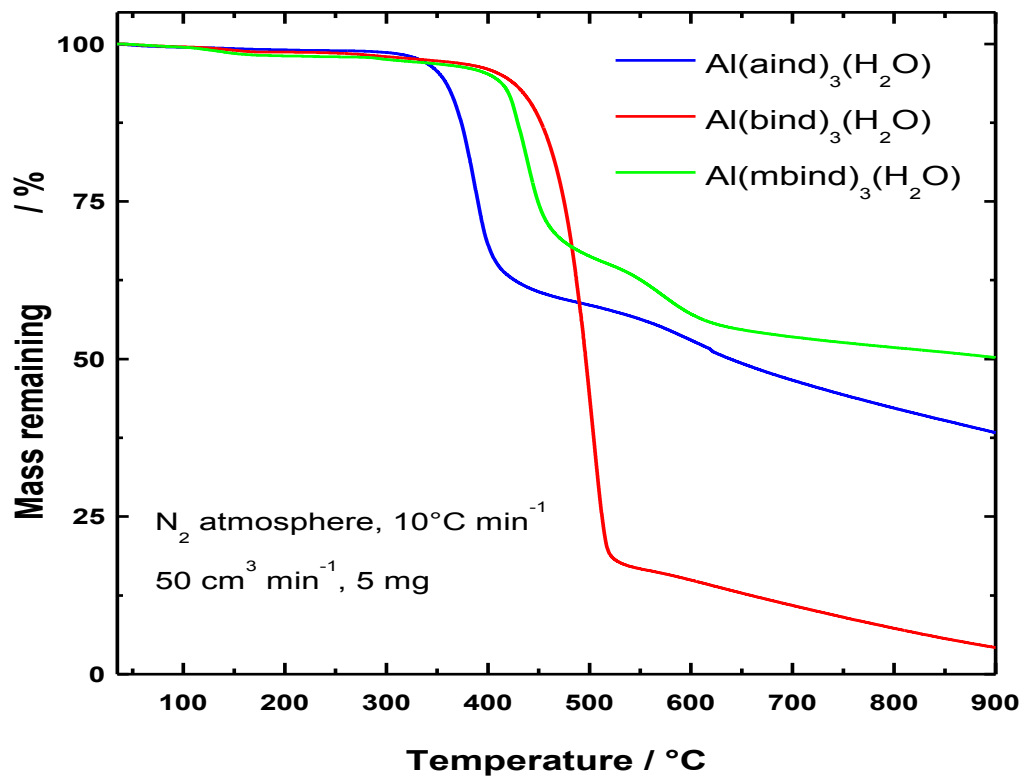


Figure S3. TGA curves of Al(aind)₃(H₂O), Al(bind)₃(H₂O), and Al(mbind)₃(H₂O) complexes recorded in a dynamic nitrogen atmosphere at a heating rate of 10 °C min⁻¹.

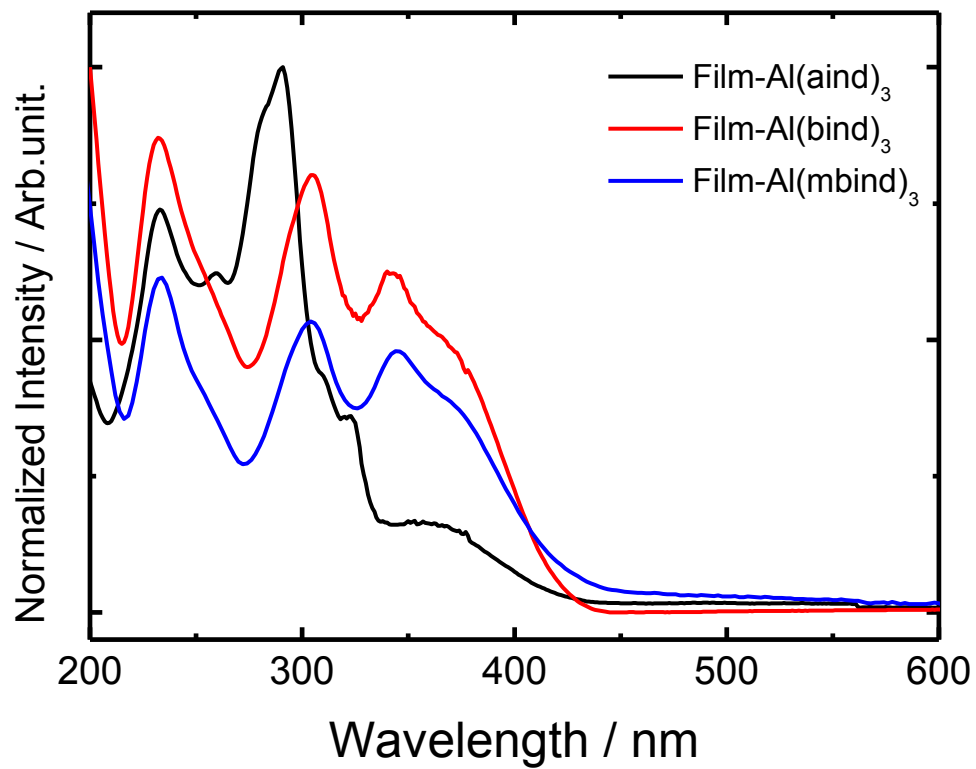


Figure S4. Absorption spectra of the Al(aind)₃, Al(bind)₃ and Al(mbind)₃ complexes in thin film form.

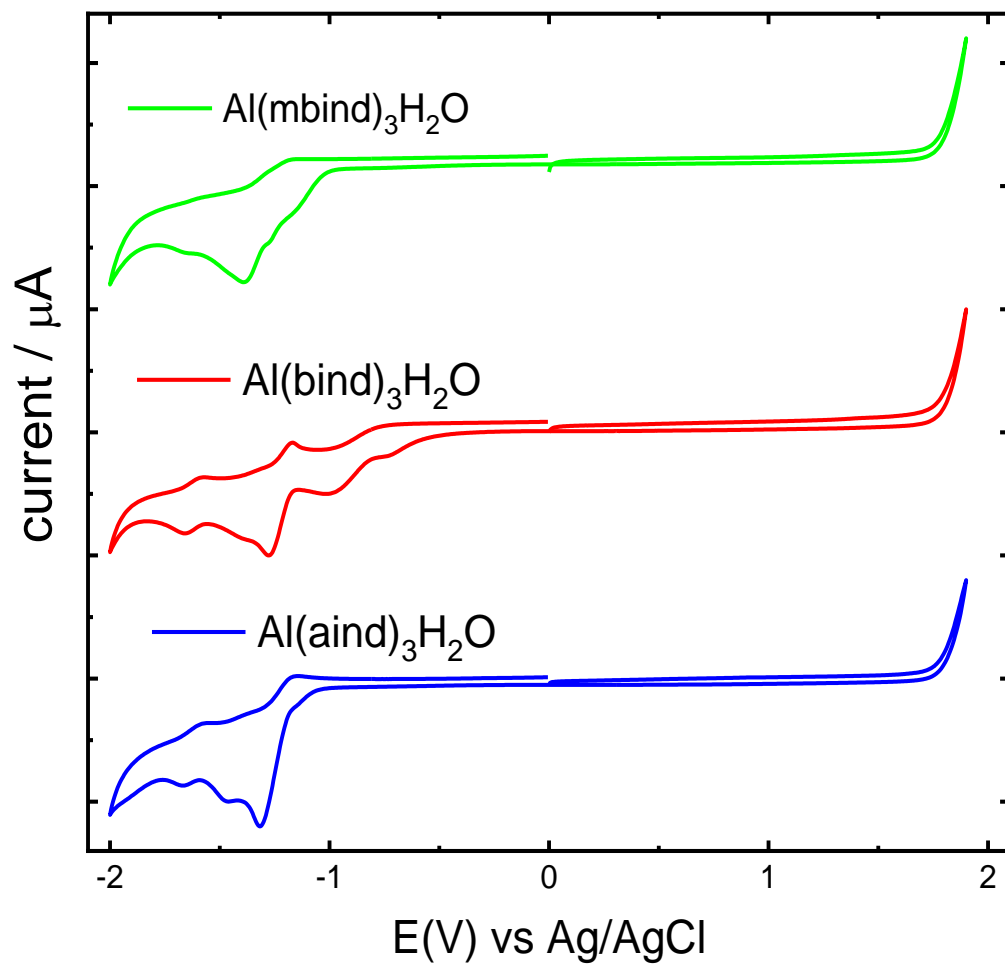


Figure S5. Cyclic voltammograms of $\text{Al(aind)}_3\text{H}_2\text{O}$, $\text{Al(bind)}_3\text{H}_2\text{O}$, and $\text{Al(mbind)}_3\text{H}_2\text{O}$ complexes.

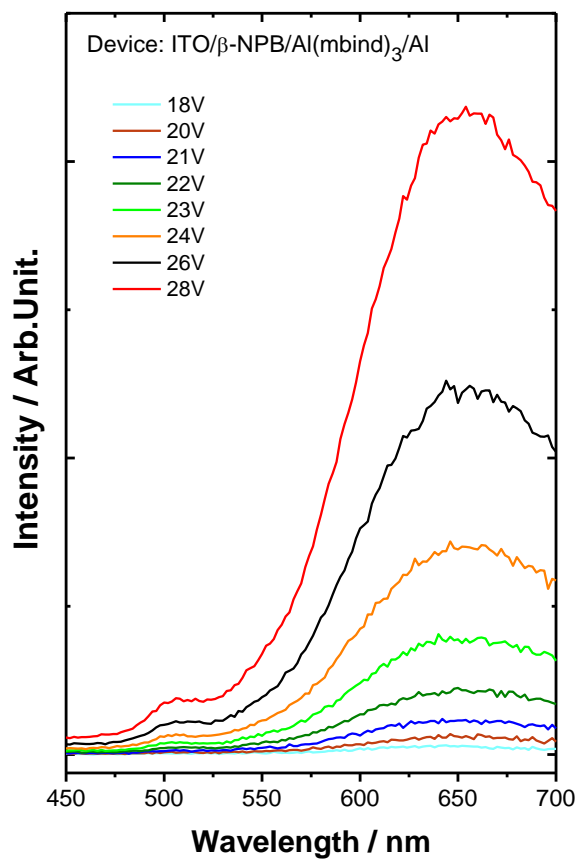


Figure S6. Electroluminescence spectra of bilayer device glass/ITO/ β -NPB/Al(mbind)₃/Al.