

Electronic Supplementary Information for

Luminescent Ultrathin Film of the Anionic Styrylbiphenyl Derivatives/Layered Double Hydroxide and its Reversible Sensing for Heavy Metal Ions

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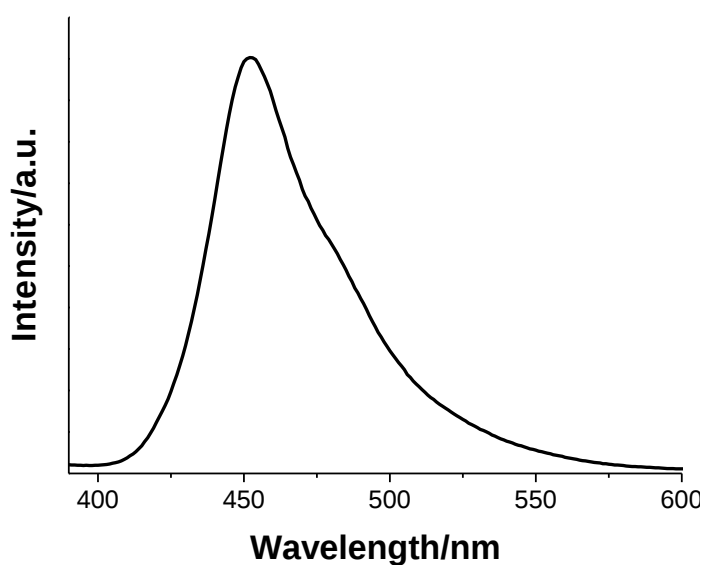


Fig. S1. The PL spectrum of the drop-casting BTBS film.

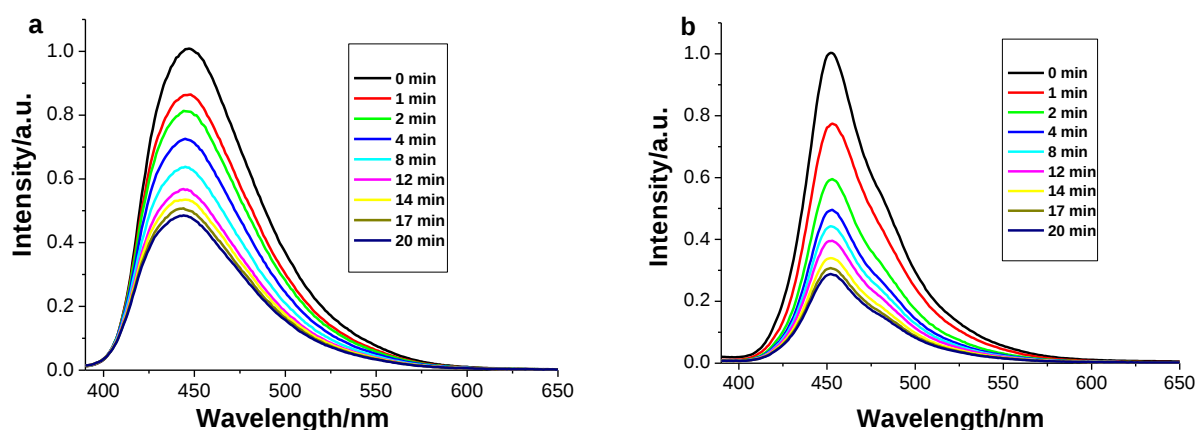


Fig. S2. The variation of PL spectra with irradiation time for a) the (BTBS/LDH)₃₂ UTF, and b) the drop-casting film.

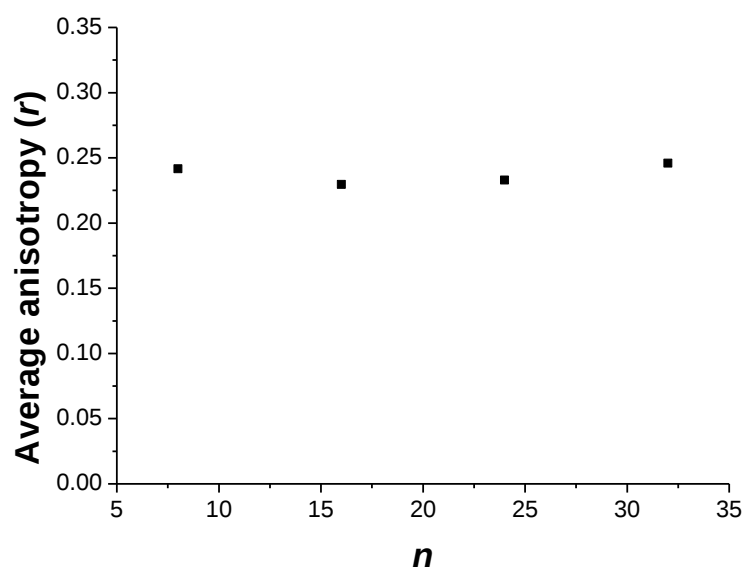
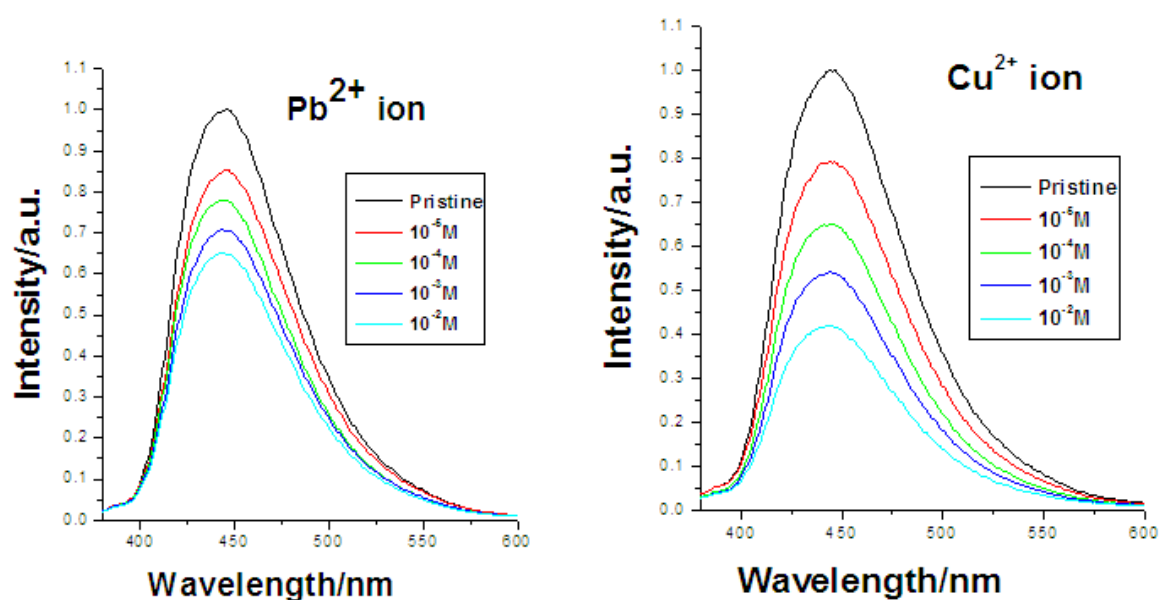


Fig. S3. The correlation between fluorescence anisotropy values (r) of the BTBS/LDH UTFs (averaged in the range 430–470 nm) and the number of bilayers for the measurement mode of glancing incidence geometry.



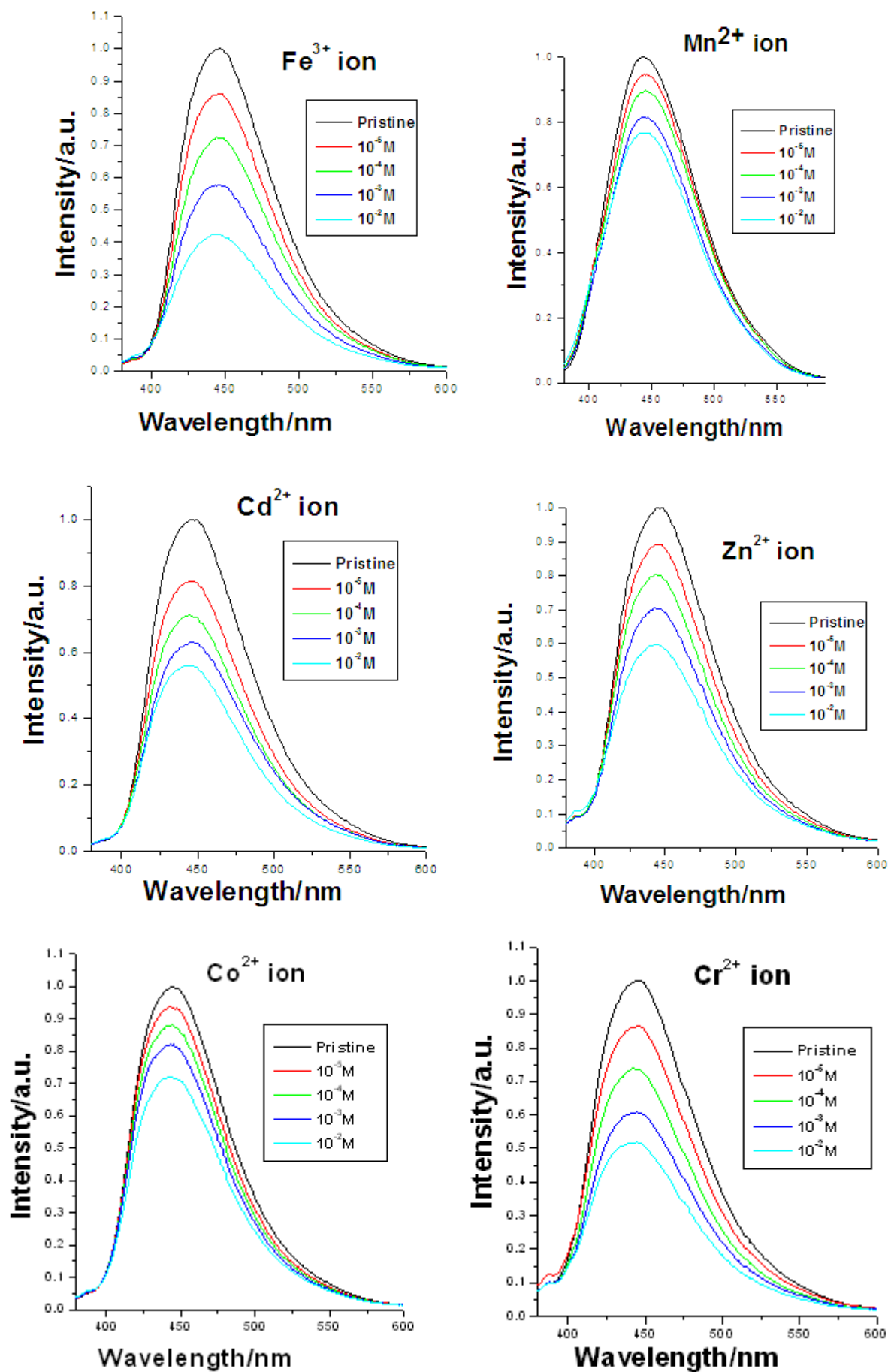


Fig. S4. The luminescent response profiles of the UTF to different metal ions with varying concentrations.

Table S1. Quenching coefficients (Ksv) of different metal ions on the luminescence change of the

UTF	
Metal Ions	K _{sv} (M ⁻¹)
Ca ²⁺	16.2
Mn ²⁺	32.3
Co ²⁺	41.0
Pb ²⁺	58.4
Zn ²⁺	71.1
Cd ²⁺	84.2
Cr ³⁺	100.2
Fe ³⁺	141.8
Cu ²⁺	148.1
Hg ²⁺	319.2