

Supporting information

Co-assembly and luminescence tuning of hybrids with task-specified ionic liquid encapsulating and linking lanthanide-polyoxometalates and complexes

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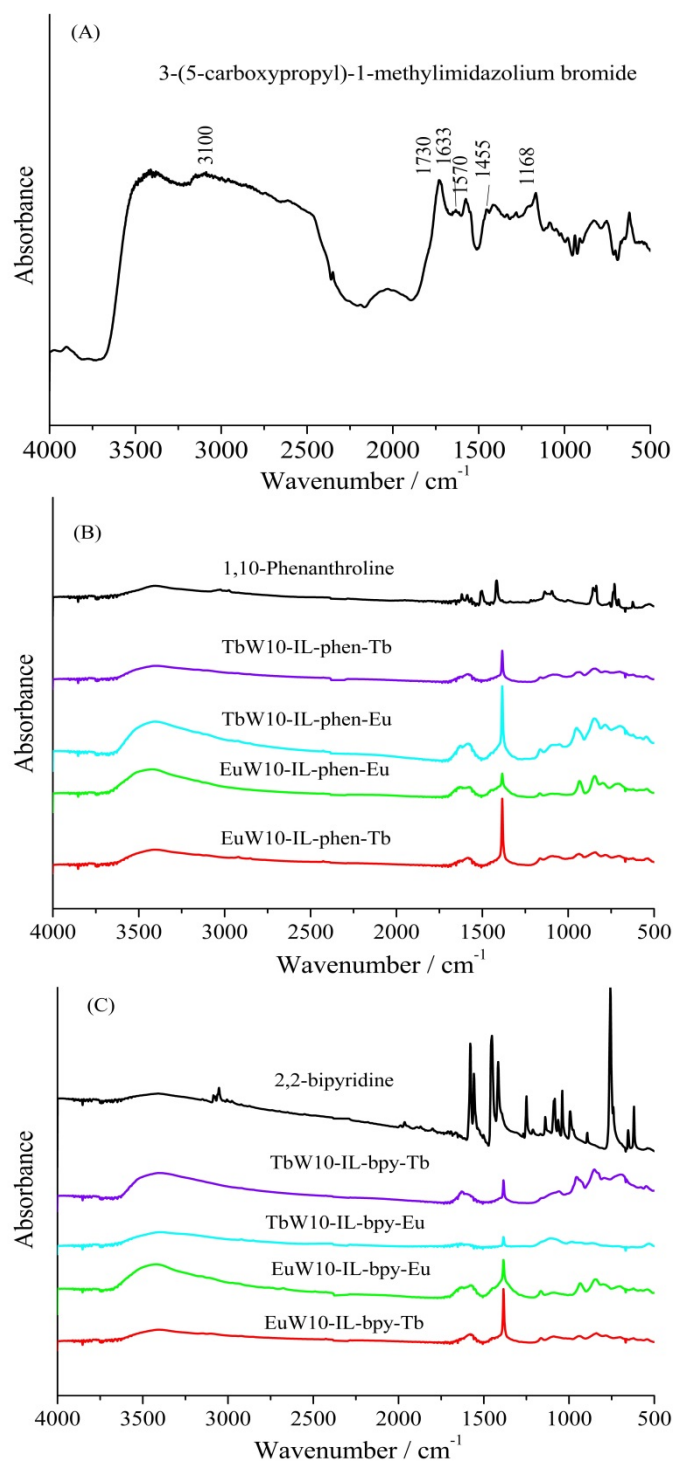
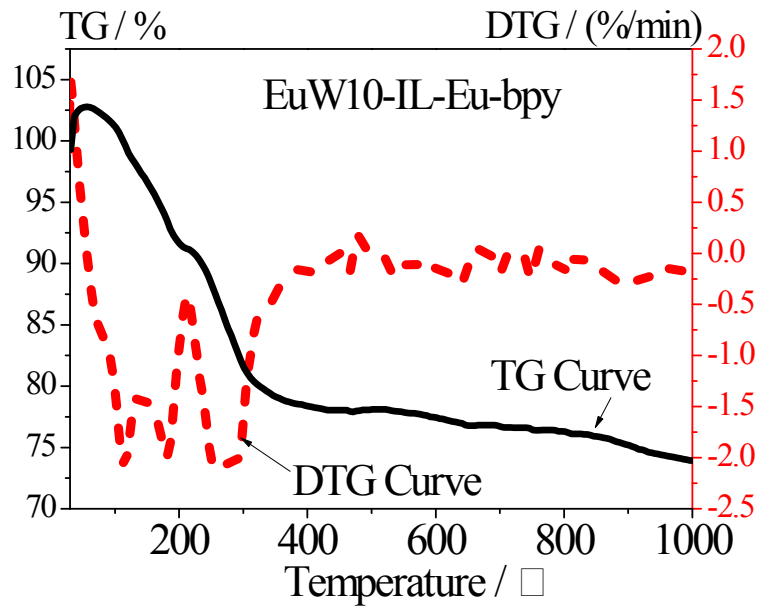
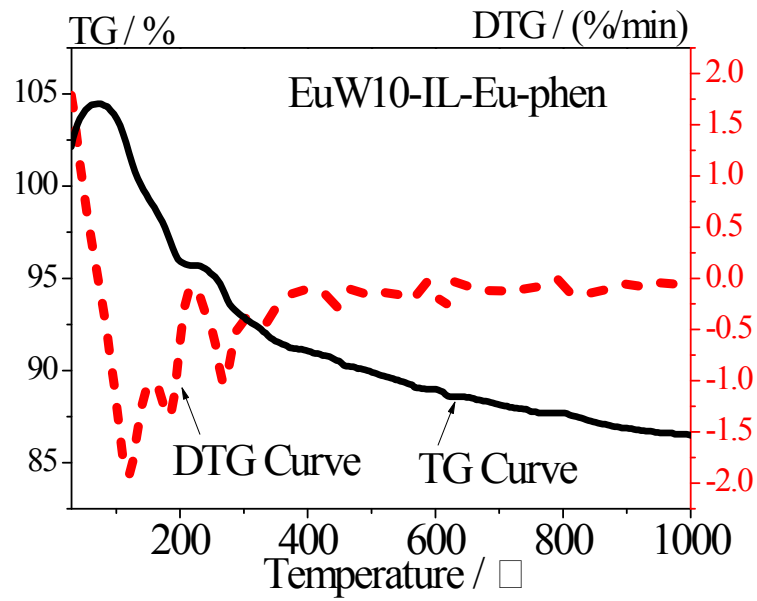


Fig. S1 The FTIR spectra of task-specified ionic liquid IM^+Br^- (A), four 1,10-phenanthroline hybrids(B), four 2, 2'-bipyridine hybrids(C).

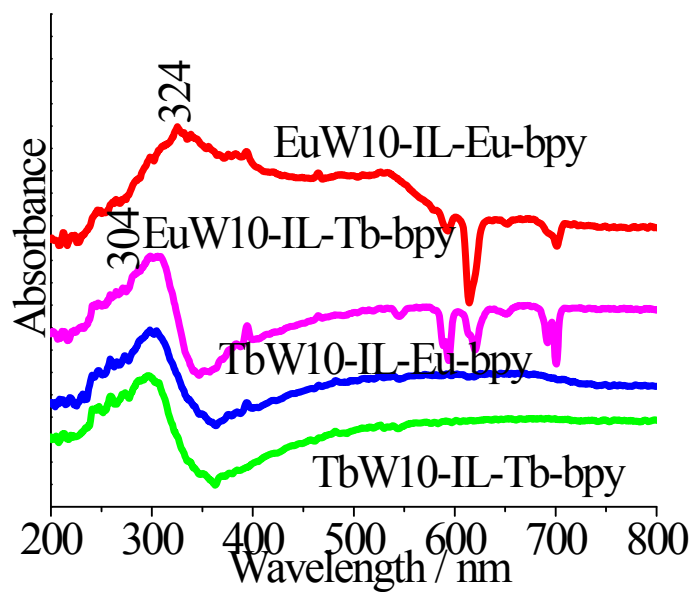


(a)

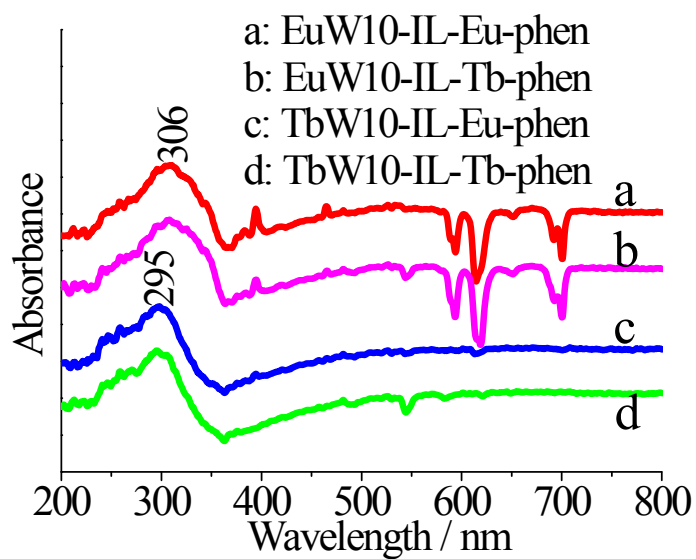


(b)

Fig. S2 Thermal gravimetric curves of EuW10-IL-Eu-bpy(a) and EuW10-IL-Eu-phen (b) hybrids



(a)



(b)

Fig. S3 The UV-vis diffuse reflection absorption spectra of all hybrids.

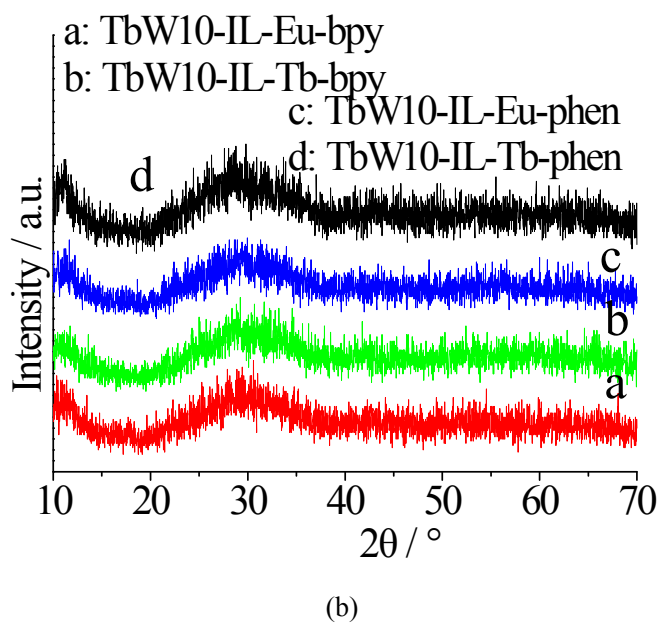
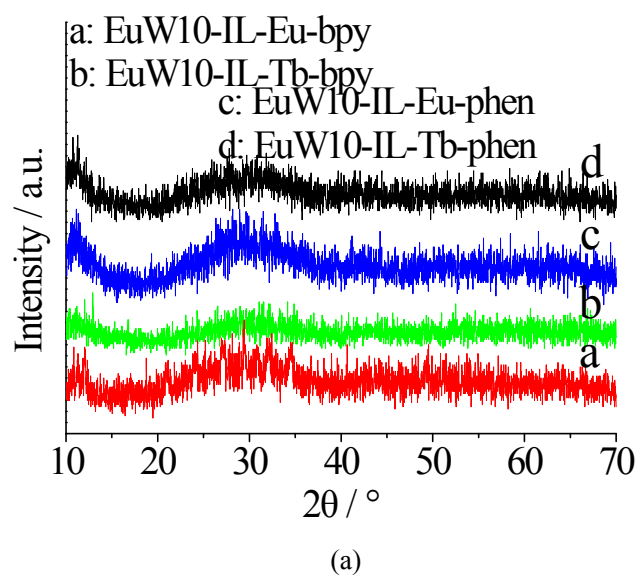


Fig. S4 The XRD patterns of europium polyoxometalates hybrids (a) and terbium polyoxometalates hybrids (b).