Birefringent, emissive coordination polymers incorporating bis(benzimidazole)pyridine as an anisotropic building block - Supporting Information

John R. Thompson[a,b], Ryan J. Roberts[a], Vance E. Williams[*a,b], and Daniel B. Leznoff[†a]

[a] Department of Chemistry, Department of Chemistry, Simon Fraser University, 8888 University Drive, Burnaby, British Columbia, V5A 1S6, Canada

[b] 4D LABS, Simon Fraser University, 8888 University Drive, Burnaby, British Columbia, V5A 1S6, Canada

[*] To whom correspondence should be addressed: Fax: 778-782-3765; Tel: 778-782-8059; E-mail: vancew@sfu.ca.

[†] To whom correspondence should be addressed: Fax: 778-782-3765; Tel: 778-782-4887; E-mail: dleznoff@sfu.ca.

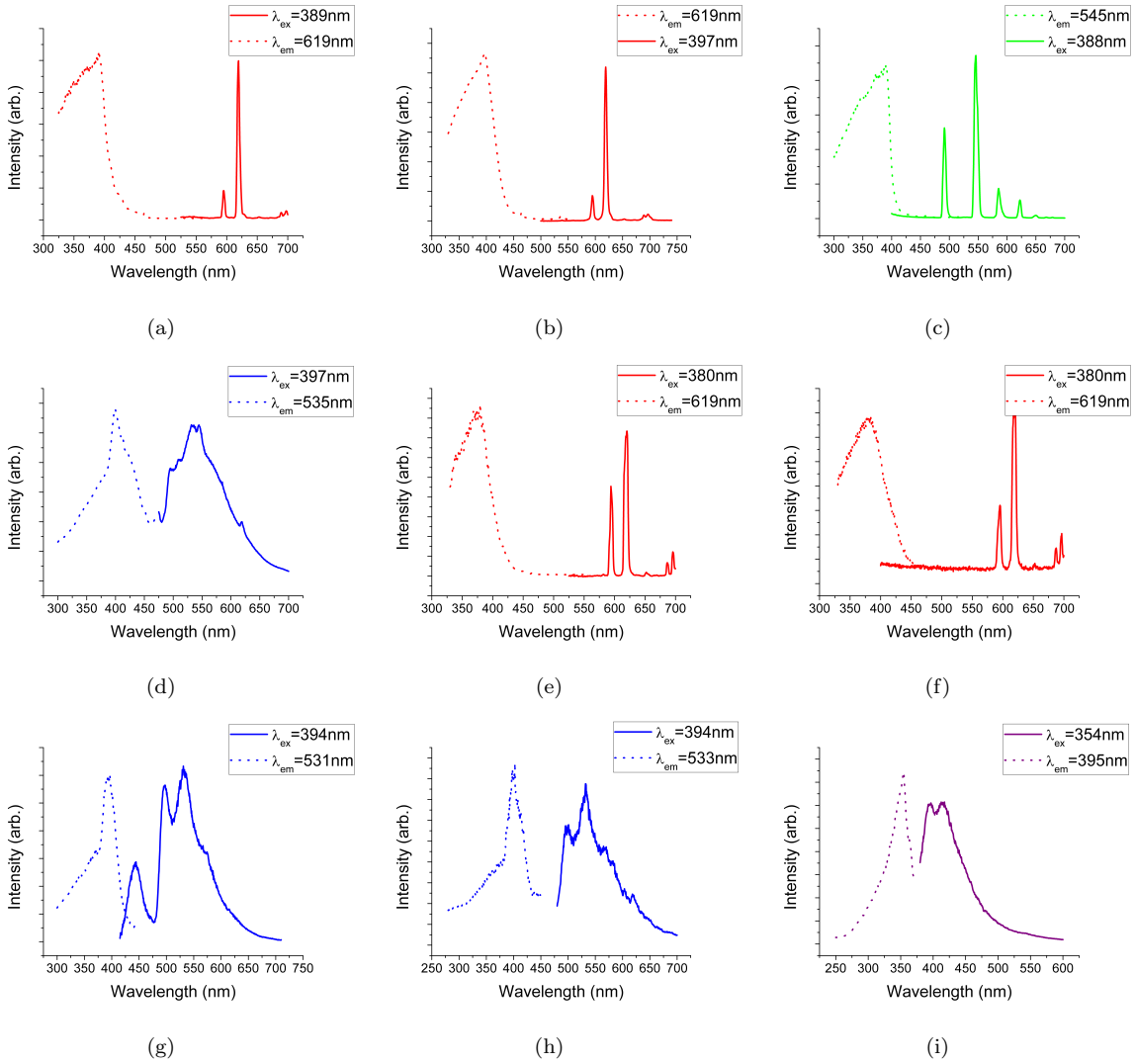
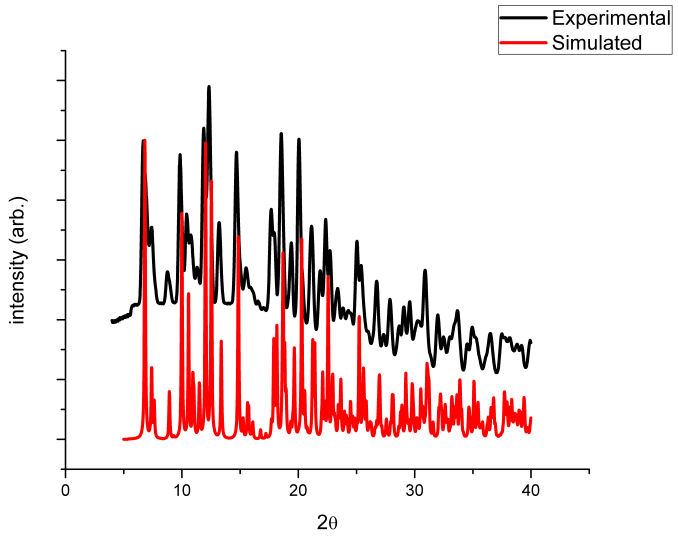
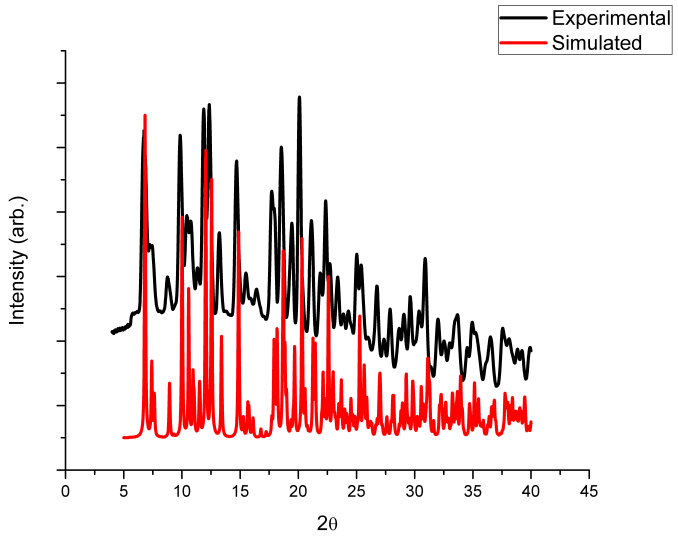


Figure S1: a)Luminescence of $Eu(BBP)(NO_3)_2[Au(CN)_2]\cdot(CH_3CN)$ at 77 K b)Luminescence of $Eu(BBP)(NO_3)_2[Au(CN)_2]\cdot(CH_3CN)$ at RT c) Luminescence of $Tb(BBP)(NO_3)_2[Au(CN)_2]\cdot(CH_3CN)$ at 77 K d) Luminescence of $Gd(BBP)(NO_3)_2[Au(CN)_2]\cdot(CH_3CN)$ at 77 K e) Luminescence of $Eu(BBP)_2[Au(CN)_2]_3\cdot 4H_2O$ at 77 K f) Luminescence of $Eu(BBP)_2[Au(CN)_2]_3\cdot 4H_2O$ at RT g) Luminescence of $Gd(BBP)_2[Au(CN)_2]_3\cdot 4H_2O$ at 77 K h) Luminescence of $[Gd(BBP)_2(NO_3)_2]NO_3\cdot H_2O$ at 77 K i) Luminescence of BBP at 77 K.



(a)



(b)

Figure S2: a)PXRD of $Eu(BBP)_2[Au(CN)_2]_3 \cdot 4\,H_2O$ (black) and simulated PXRD of $Eu(BBP)_2[Au(CN)_2]_3 \cdot 2\,(CH_3CN)$ (red) b)PXRD of $Gd(BBP)_2[Au(CN)_2]_3 \cdot 4\,H_2O$ (black) and simulated PXRD of $Gd(BBP)_2[Au(CN)_2]_3 \cdot 2\,(CH_3CN)$ (red).