

Supplementary Information for
Two-Color Polarized Emission and Angle-dependent Luminescence Based on
Layer-by-layer Assembly of Binary Chromophores/Layered Double Hydroxide
Thin Films

Rui Gao,^a Xiaodong Lei,^a Mingxing Chen,^b Dongpeng Yan,^{*,a} and Min Wei^a

a: State Key Laboratory of Chemical Resource Engineering, Beijing University of Chemical
Technology, Beijing 100029, P. R. China.

b: College of Chemistry and Molecular Engineering, Peking University, Beijing, 100871, P. R.
China.

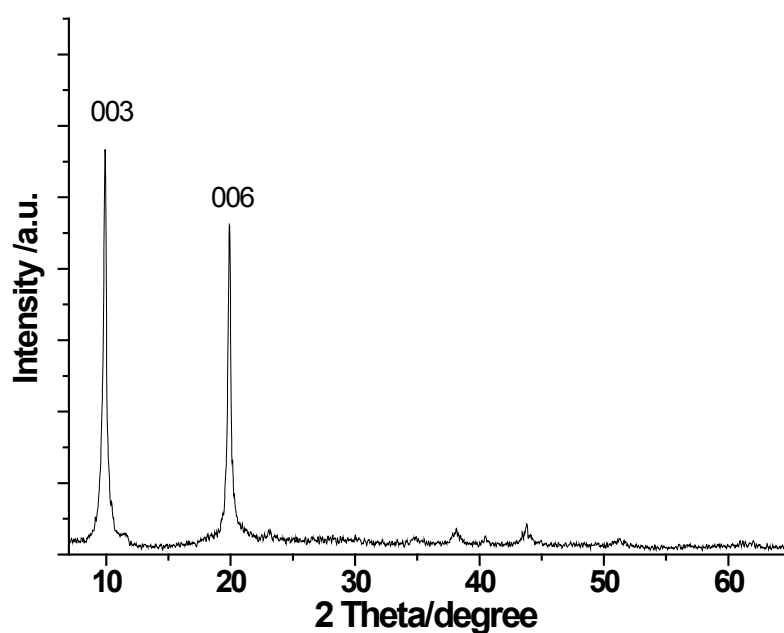


Fig. S1. Powder XRD pattern of LDH-nitrate.

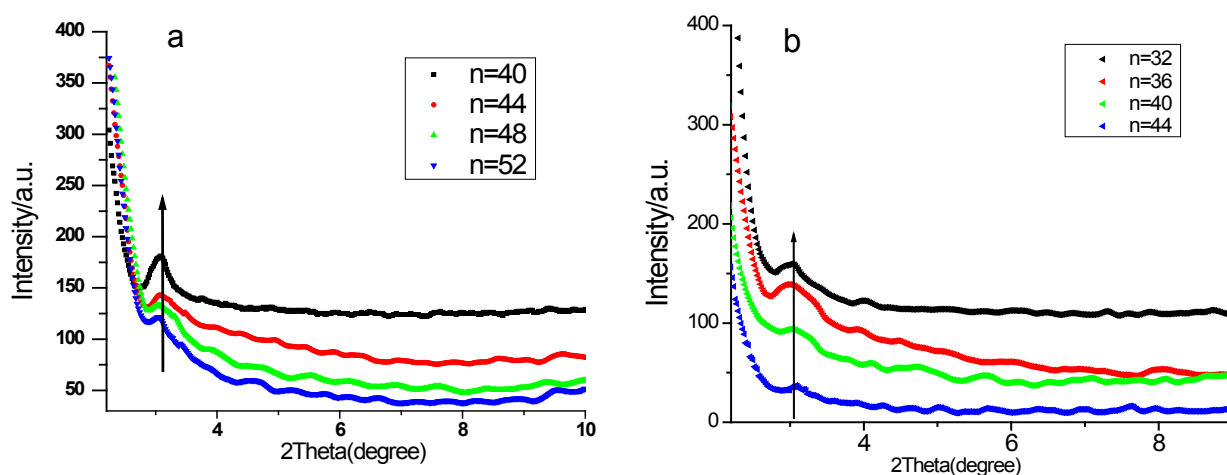


Fig. S2. XRD patterns of a) the (VBL@SPT/LDH)_n UTFs ($n = 40, 44, 48, 52$);
b) the (VBL@Ru(dpds)₃/LDH)_n UTFs ($n = 32, 36, 40, 44$).

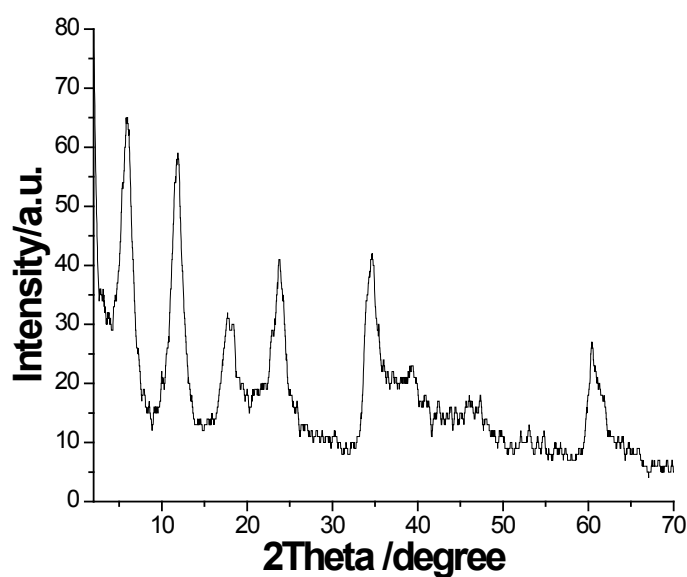


Fig. S3. Powder XRD pattern of the VBL intercalated LDH.

VBL intercalated LDH system has been prepared by a typical co-precipitation method.^[1] The XRD pattern of the VBL/LDH shows that the 003 reflection peak appears at ca. 5.85°, which corresponds to basal spacing of 1.51 nm.

Reference:

[1] D. P. Yan, J. Lu, M. Wei, D. G. Evans and X. Duan, *J. Phys. Chem. B*, 2009, **113**, 1381.