Supporting information

Halogen-bonding contacts determining the crystal structure and fluorescence properties of organic salts

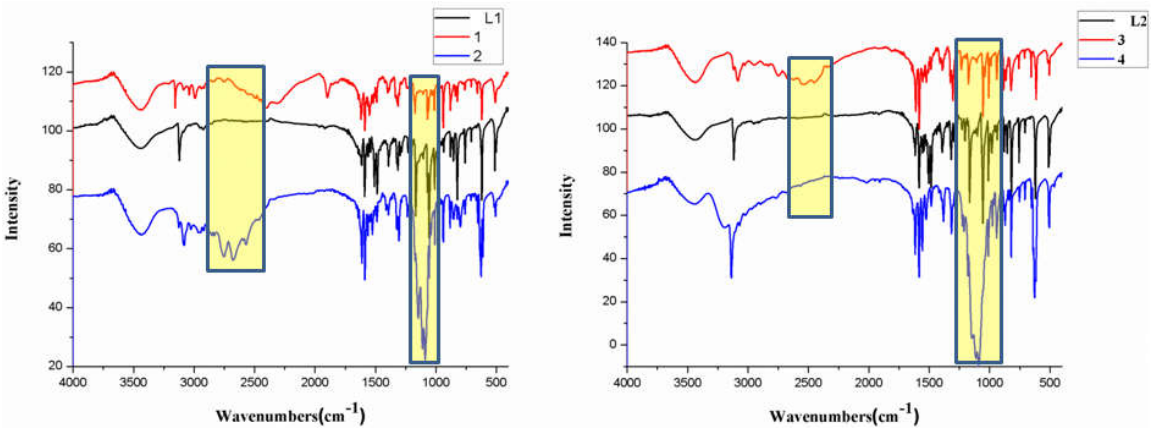


Fig. S1 IR spectra of compounds L_1, L_2 and salts **1**-**4**. The differences are highlighted.

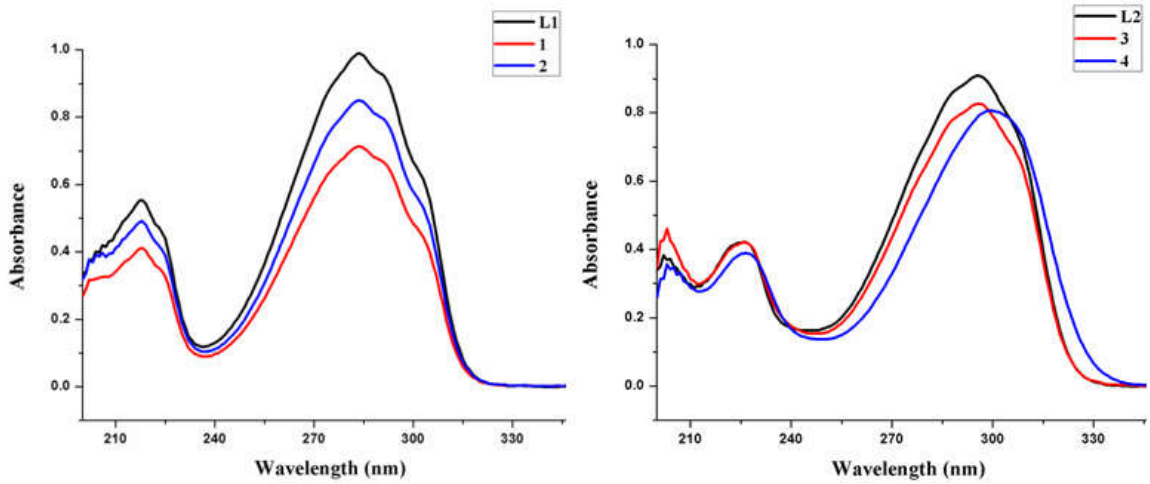
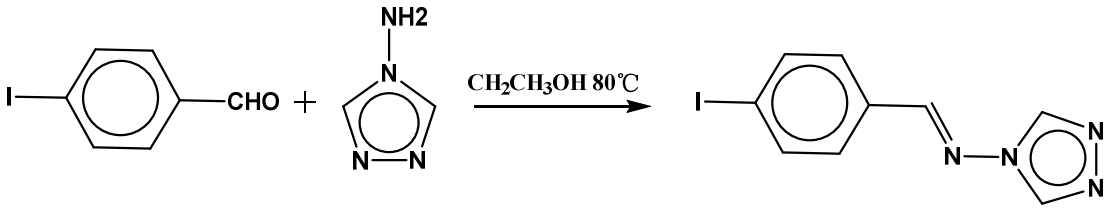


Fig. S2 UV-visible absorption spectra for ligand L_1, L_2 and salts **1**-**4** in methanol solution (2.5×10^{-6} mol·L^{-1}).

Table S1 Geometrical parameters for halogen bonds in compounds L_1, L_2 and crystals **2**, **3**.

Y-X···D	X···D (Å)	Symmetry operation
Compound L_1		
Br···N1	3.296	-1.5+x, 1.5-y, 1/2+z
Compound L_2		
I···N1	3.210	-1.5+x, 1/2-y, 1/2+z
crystal **2**		
O4···Br1	3.240	2-x, 2-y, 2-z
C4···Br1	3.524	1-x, 2-y, 2-z
crystal **3**		
Cl···I	3.344	1+x, -2+y, z
Cl···C1	3.376	-x, 2-y, 1-z

Scheme S1 The synthetic route for compound L_1.



Scheme S2 The synthetic route for compound L_2.

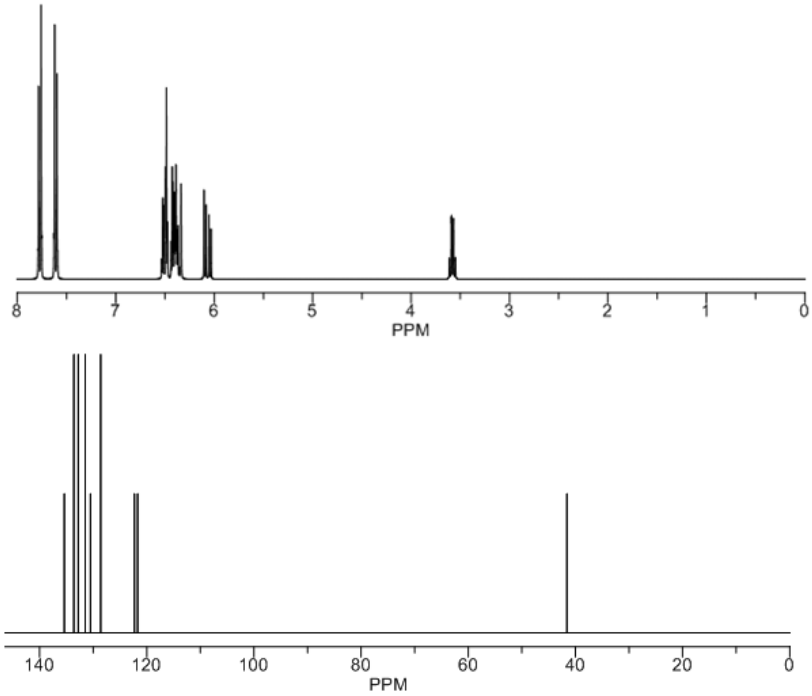


Fig. S3 ^{1}HNMR and ^{13}CNMR of compound *L1*.

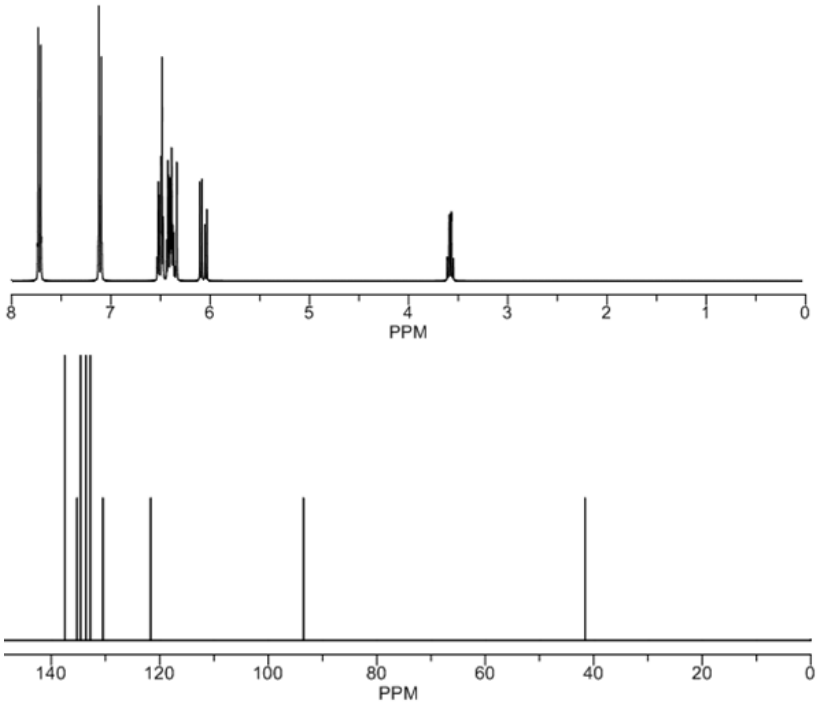


Fig. S4 ^{1}HNMR and ^{13}CNMR of compound *L2*.