

Supplement:

S1: CIF-data file of compound **2**.

S2: CIF-data file of compound **3**.

S3: CIF-data file of compound **5b**.

Fig. S1 Fluorescence emission spectra of the reference compound **8** ($35 \mu\text{mol L}^{-1}$) in acetonitrile in the presence of different metal salts ($70 \mu\text{mol L}^{-1}$).

Fig. S2 Quenching ratio $[(I_0 - I)/I_0]$ of the fluorescence intensity of **8** upon addition of 2 equiv. Cu^{2+} in the presence of 4 equiv. background metal ions in acetonitrile.

Fig. S3 $^1\text{H-NMR}$ spectrum of compound **5a** in CDCl_3 at 295 K.

Fig. S4 $^1\text{H-NMR}$ spectrum of compound **5b** in CDCl_3 at 295 K.

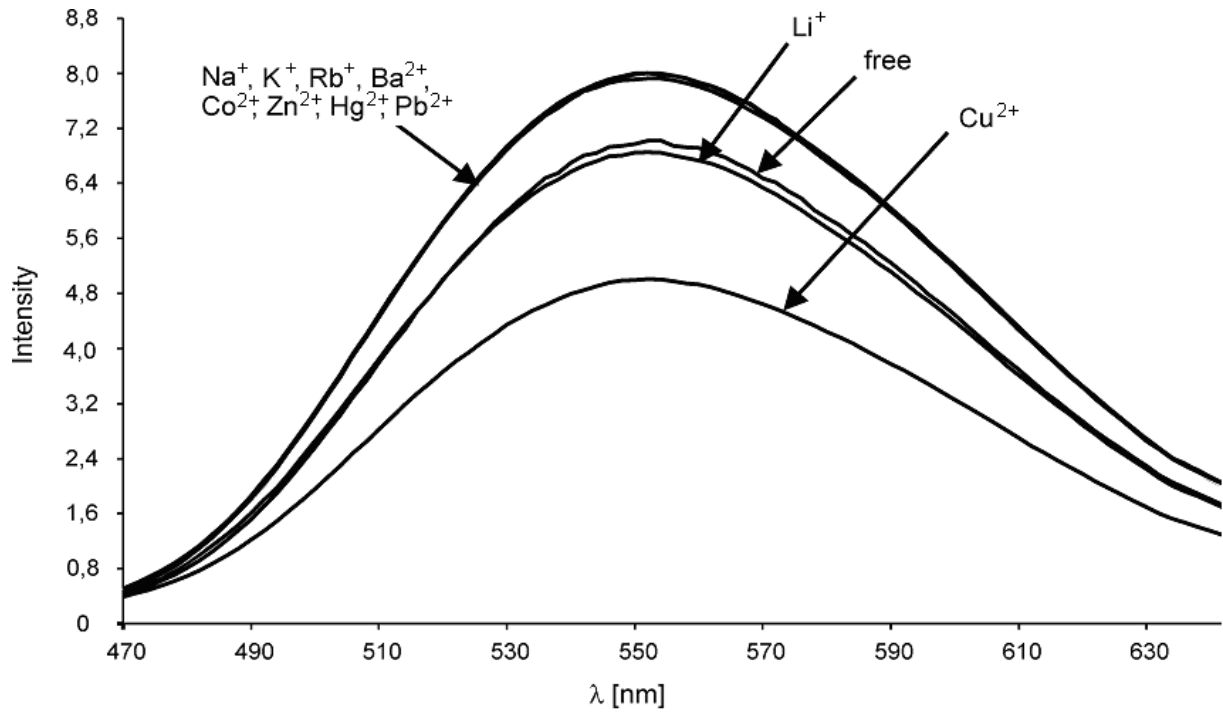


Figure S1

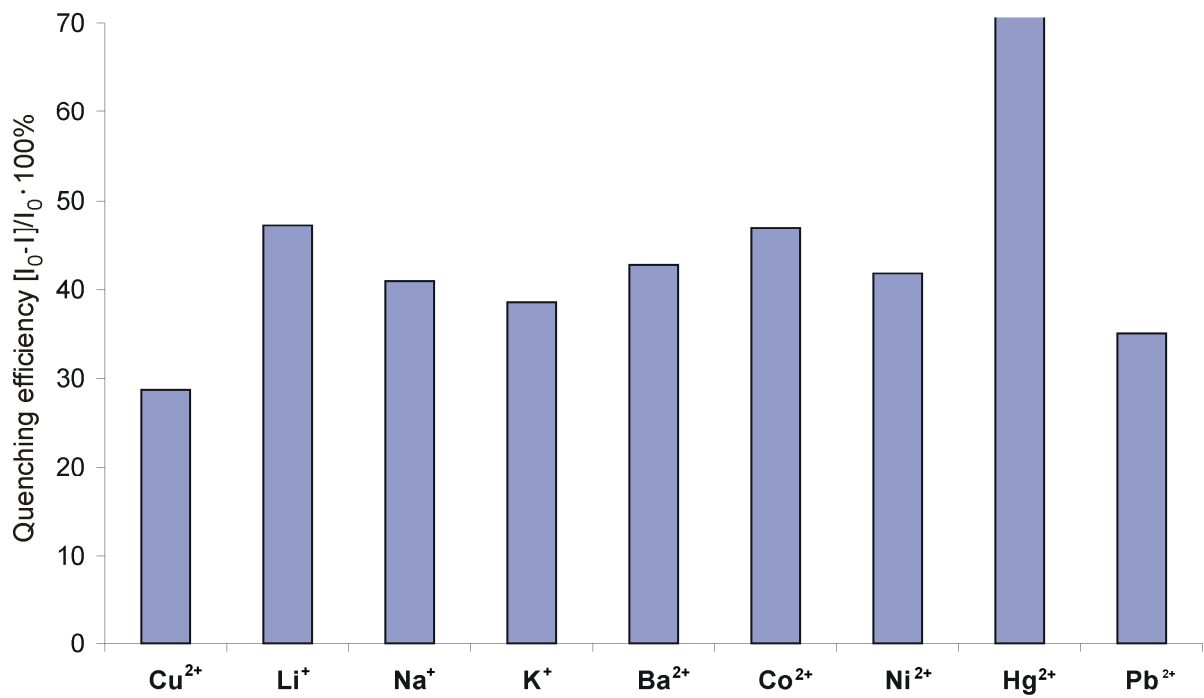


Figure S2

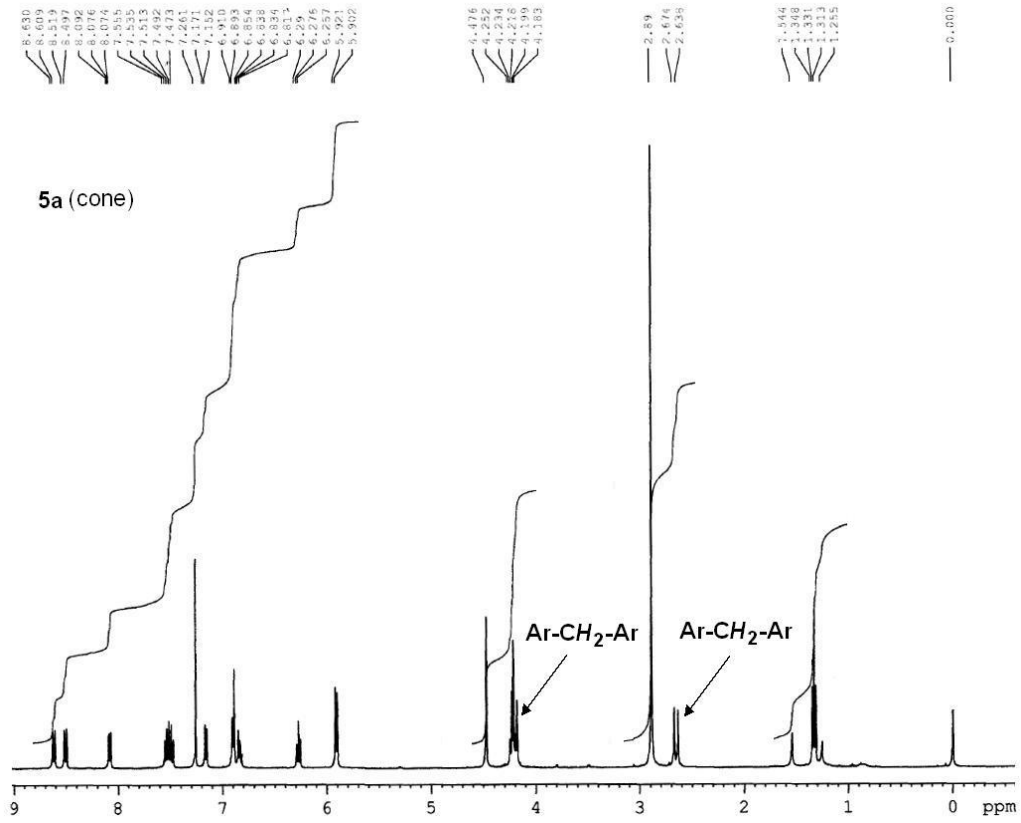


Figure S3

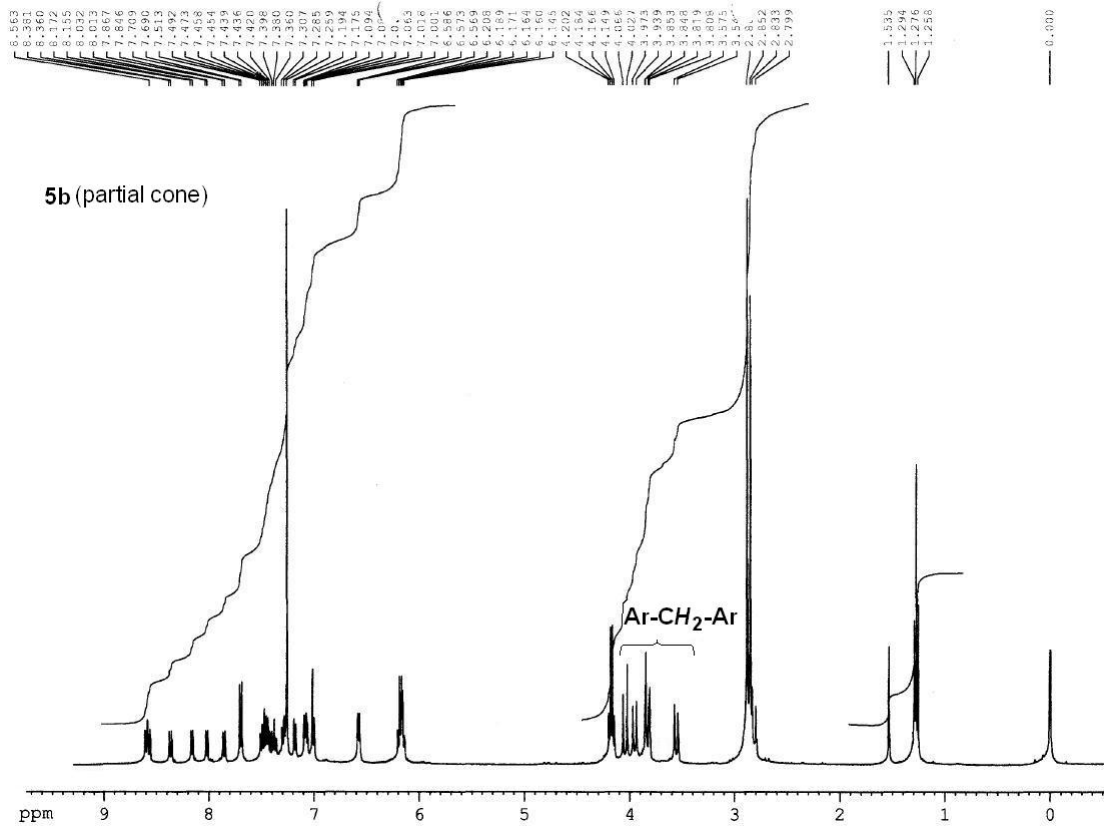


Figure S4