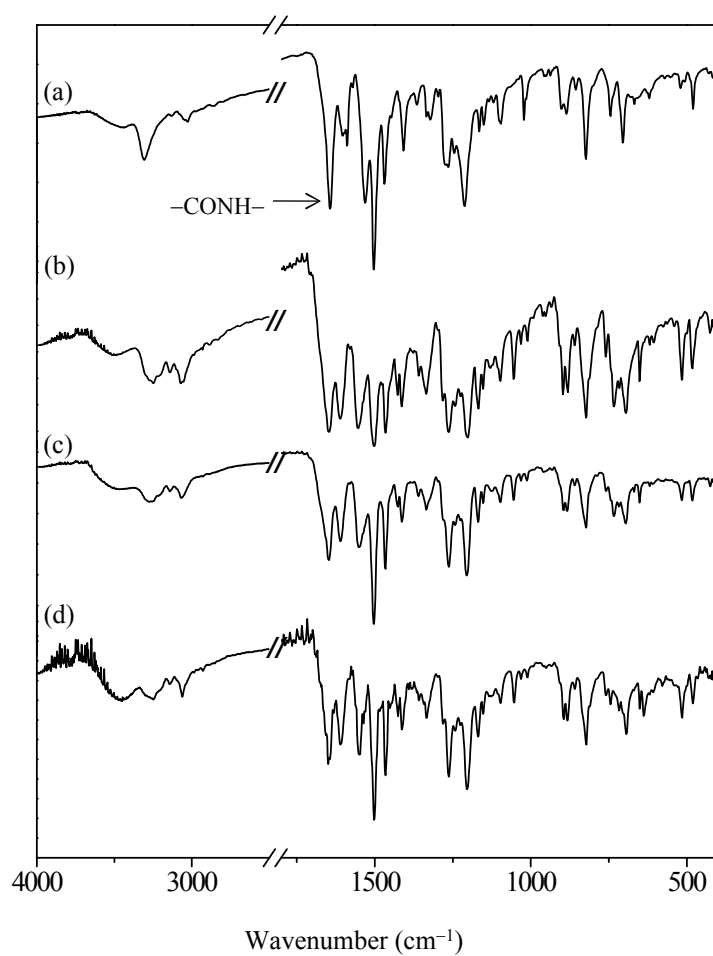


**<Electronic supplementary information (ESI)>**

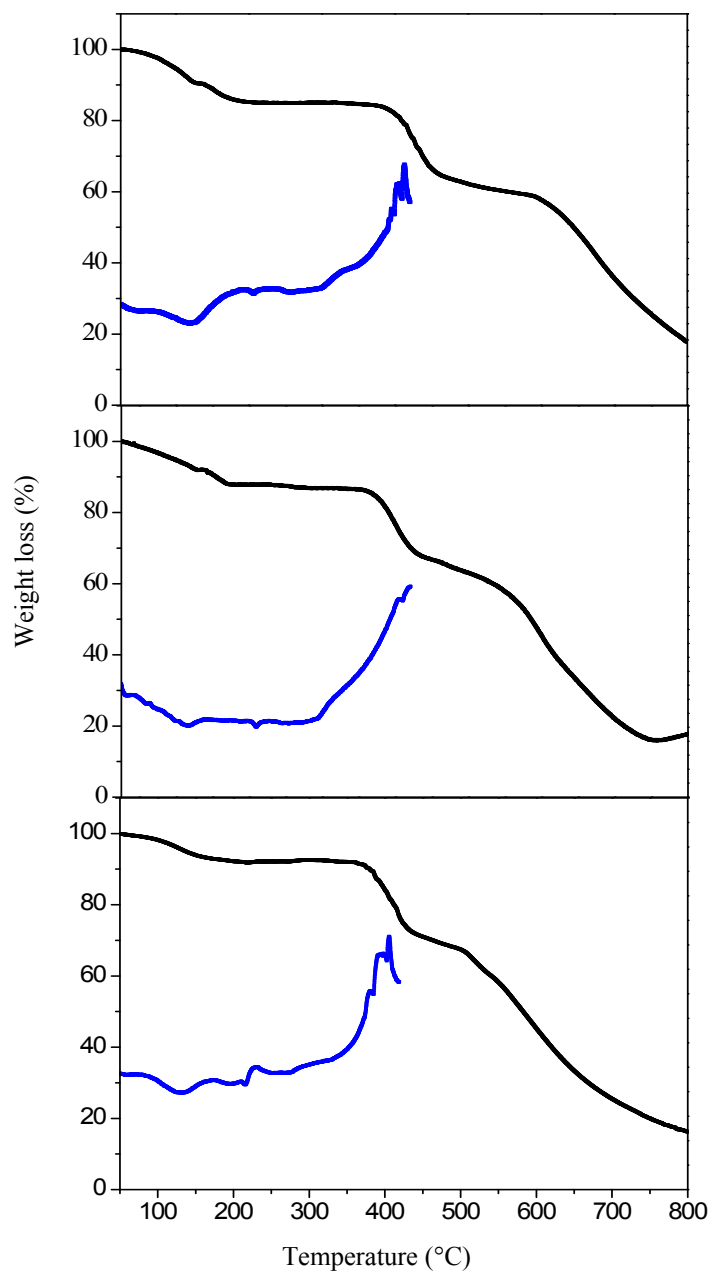
**Coordination-cyclodimeric array containing both channels and cages:  
photoluminescence recognition of diiodomethane**

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**Fig. S1.** FT-IR spectra of L (a),  $[\text{ZnCl}_2\text{L}]_2 \cdot 6\text{CH}_3\text{CN}$  (b),  $[\text{ZnBr}_2\text{L}]_2 \cdot 6\text{CH}_3\text{CN}$  (c), and  $[\text{ZnI}_2\text{L}]_2 \cdot 4\text{CH}_3\text{CN}$  (d).



**Fig. S2.** TGA (black line) and DSC (blue line) curves for metallacyclodimers,  $[\text{ZnCl}_2\text{L}]_2 \cdot 6\text{CH}_3\text{CN}$  (a),  $[\text{ZnBr}_2\text{L}]_2 \cdot 6\text{CH}_3\text{CN}$  (b), and  $[\text{ZnI}_2\text{L}]_2 \cdot 4\text{CH}_3\text{CN}$  (c).