Supporting Information

Excitation Wavelength-Dependent Room Temperature Phosphorescence Based on Dual Confinements of Organic-Inorganic Matrix for Dynamic Information Encryption

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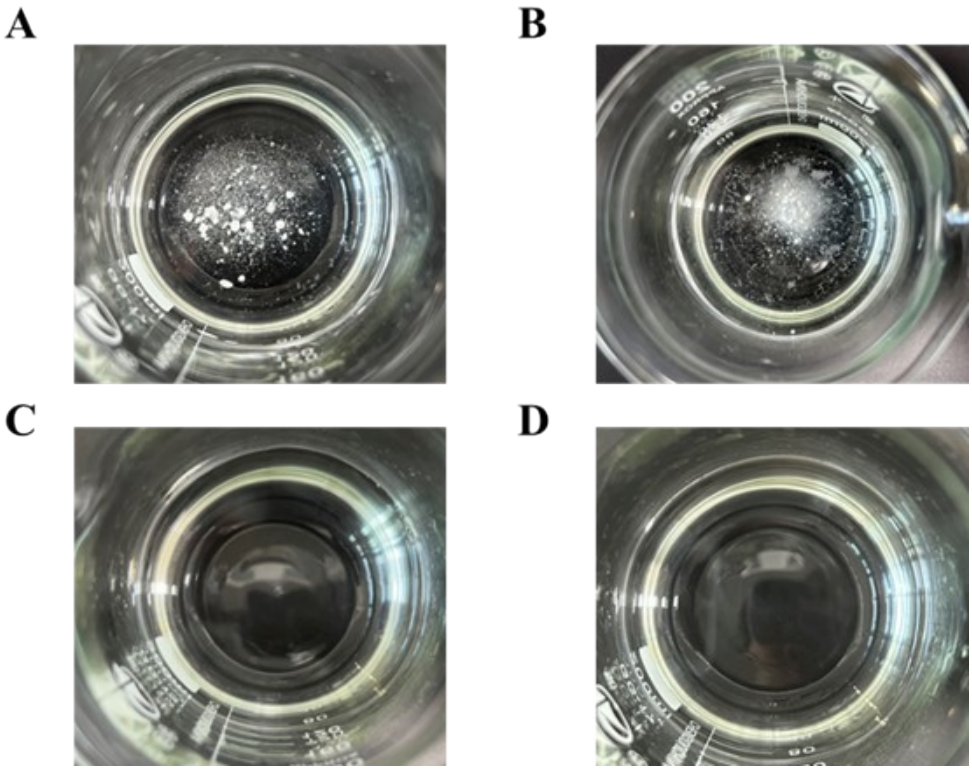

Fig. S1. Different dissolution temperatures were used to dissolve TA: (A) 30 °C; (B) 40 °C; (C) 50 °C; and (D) 60 °C.

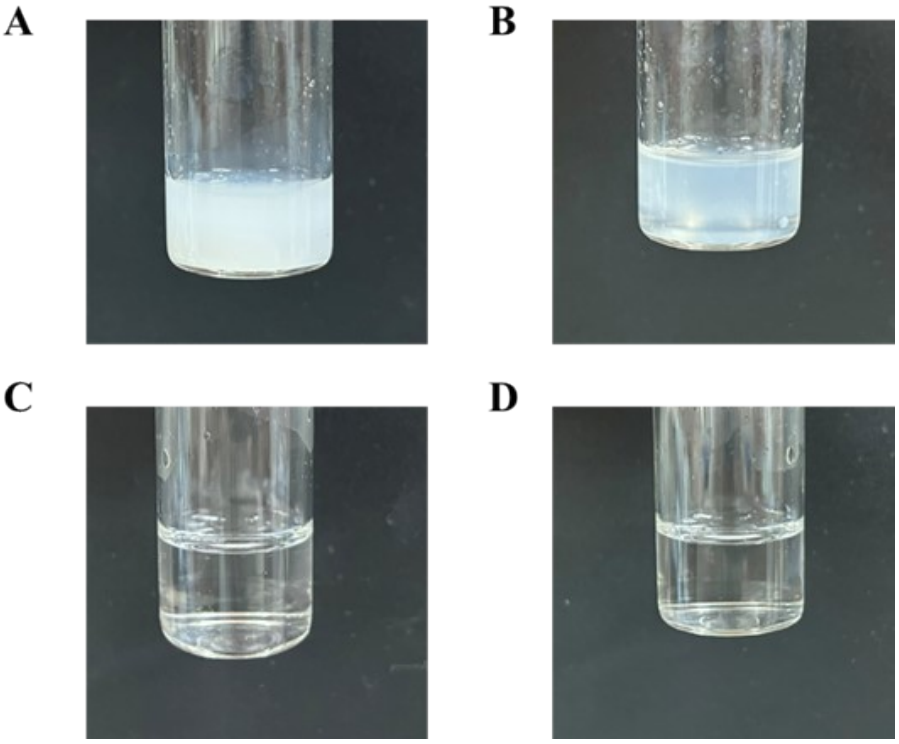

Fig. S2. CDs-LDHs were etched using different mass fractions of HCl, respectively (A) non-etching. (B) 5% HCl. (C) 10% HCl. (D) 15% HCl.

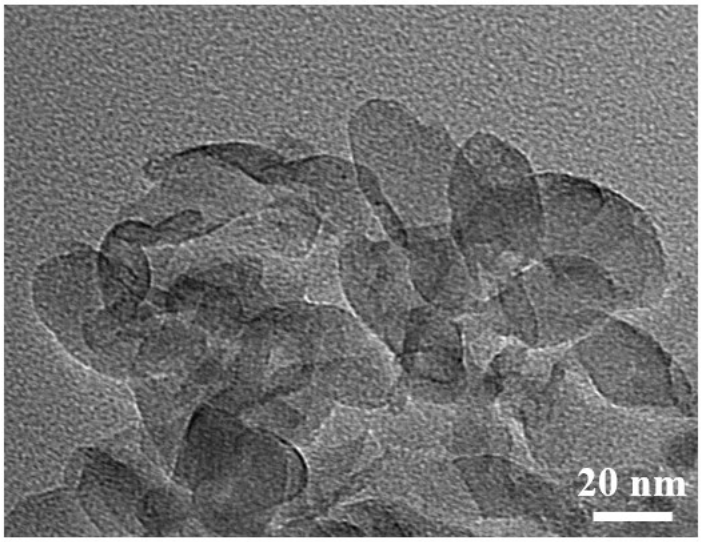

Fig. S3. TEM images of TA-LDHs.

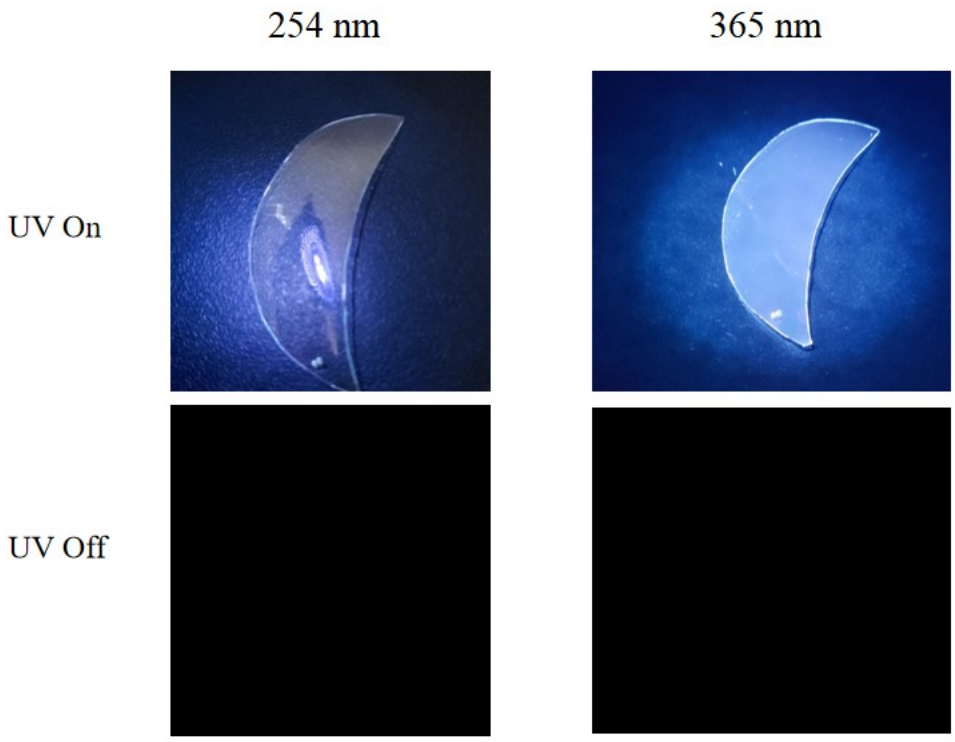

Fig. S4. Photographs of PVA before and after turning off the 254 nm and 365 nm UV lamp.

Table S1. The RTP decay and RTP quantum yield of CDs-LDHs and CDs-LDHs@PVA.

Sample	QY (%)	τ_{ave} (ms)
CDs-LDHs	4.15	127.11
CDs-LDHs@PVA	5.04	205.24