Electronic Supplementary Material (ESI) for New Journal of Chemistry.

This journal is © The Royal Society of Chemistry and the Centre National de la Recherche Scientifique 2022

A multi-stimuli-responsive CsPbBr₃@PL-MOFs functional anti-counterfeiting material

Yanli Li, Huijun Li*, Zhouqing Xu*

Department of Chemistry and Chemical Engineering, Henan Polytechnic University, Jiaozuo

454000, P. R. China

Supporting Figures.

- Fig. S1 (a) The XRD patterns of simulated HPU-22 and synthesized HPU-22; (b) the SEM image and (c) elemental mapping of HPU-22.
- Fig. S2 XPS survey spectra of CsPbBr₃@BT@HPU-22.
- Fig. S3 The PXRD patterns of CsPbBr₃@HPU-22 after moisture treating for different times.
- Fig. S4 The XPS results of HPU-22, $CsPbBr_3@HPU-22$ and $H_2O@CsPbBr_3@HPU-22$ after drying.
- Fig. S5 The PL properties data of HPU-22 treated by HCl and Et₃N.
- Fig. S6 The PXRD patterns of HPU-22, HPU-22 treated by HCl and HPU-22 treated by HCl and Et_3N .

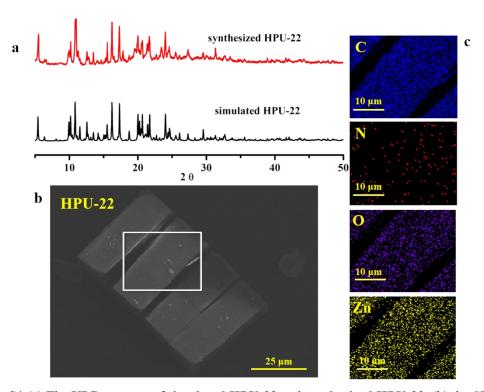


Fig. S1 (a) The XRD patterns of simulated HPU-22 and synthesized HPU-22; (b) the SEM image and (c) elemental mapping of HPU-22.

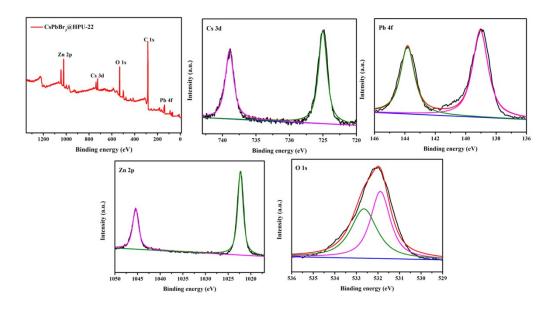


Fig. S2 XPS survey spectra of CsPbBr₃@BT@HPU-22.

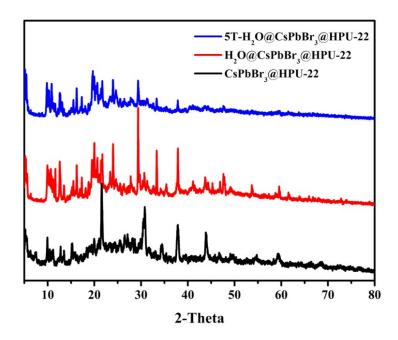


Fig. S3 The PXRD patterns of CsPbBr₃@HPU-22 after moisture treating for different times.

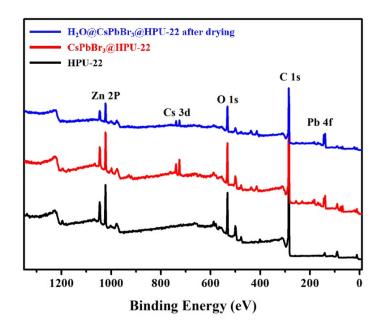


Fig. S4 The XPS results of HPU-22, CsPbBr $_3$ @HPU-22 and H $_2$ O@CsPbBr $_3$ @HPU-22 after drying.

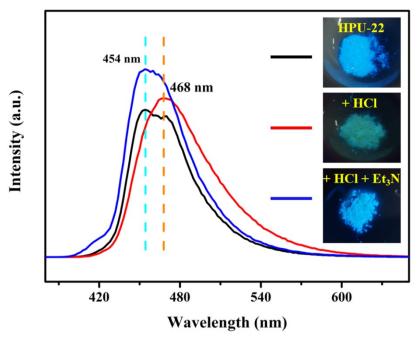
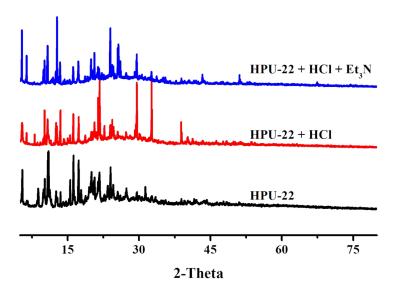


Fig. S5 The PL properties data of HPU-22 treated by HCl and Et₃N.



 $\label{eq:Fig.S6} \textbf{Fig. S6} \mbox{ The PXRD patterns of } \mbox{HPU-22}, \mbox{HPU-22} \mbox{ treated by HCl and } \mbox{HPU-22} \mbox{ treated by HCl and } \mbox{Et}_3\mbox{N}.$