

**Supporting Information**

**Efficient Charge Transfer from Organometal Lead Halide Perovskite  
Nanocrystals to Free Base *Meso*-Tetraphenylporphyrins**

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**Figure S3.** Fluorescence spectra of TPP solution after dilution with Chloroform solvent.

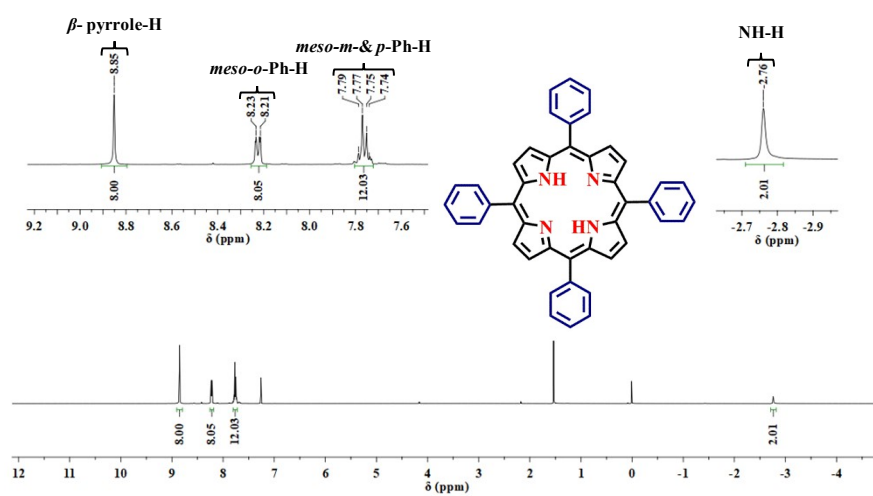
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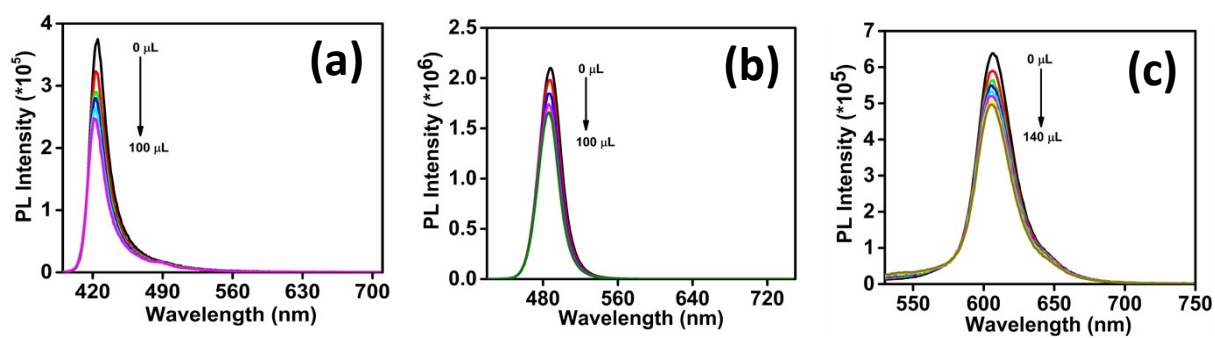
**Figure S6.** XRD pattern of (a) green luminescent  $\text{MAPbBr}_3$  and (b) red luminescent  $\text{MAPbI}_3$  perovskite nanocrystal.

**Figure S7 (a).**  $^1\text{H}$  -NMR spectra of TPP in presence of PNCs in  $\text{CDCl}_3$  solvent. **(b).**  $^1\text{H}$ -NMR spectra of TPP molecules in  $\text{CDCl}_3$  solvent.

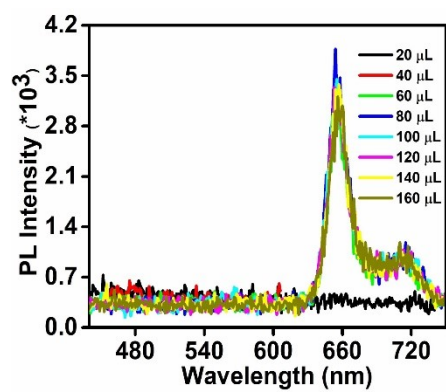
**Figure S8.** FT-IR spectra of TPP in the presence and absence of PNCs.



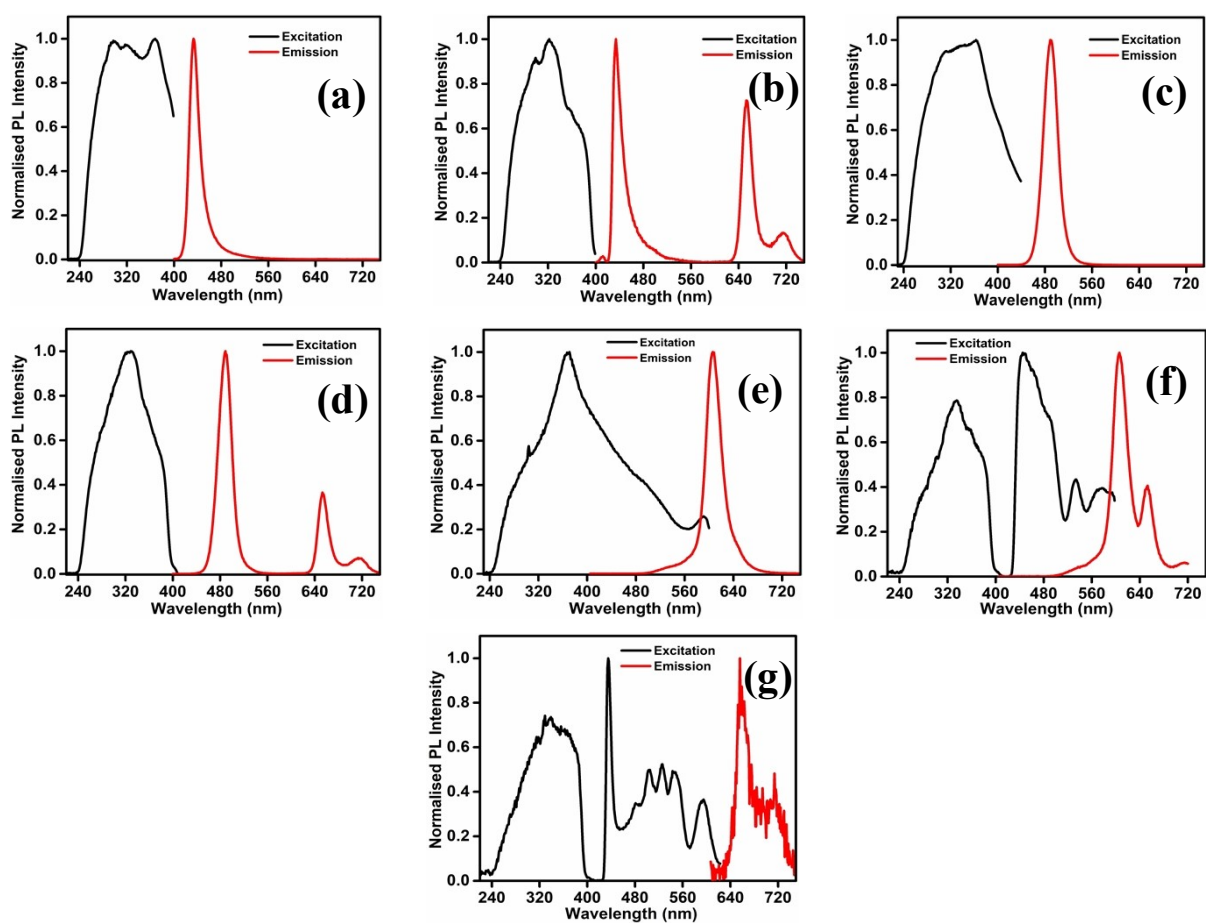
**Figure S1**  $^1\text{H-NMR}$  Spectrum of TPP in  $\text{CDCl}_3$  at 298 K.



**Figure S2.** Fluorescence spectra of blue, green and red luminescent MAPbX<sub>3</sub> (X = Br, I) perovskite nanocrystals solution with addition of 100 μL of solvent (CHCl<sub>3</sub>).

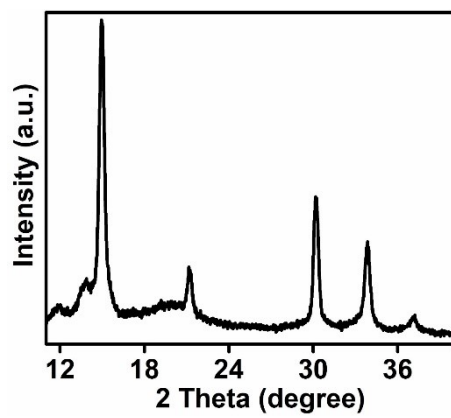


**Figure S3.** Fluorescence spectra of TPP solution after dilution with Chloroform solvent.

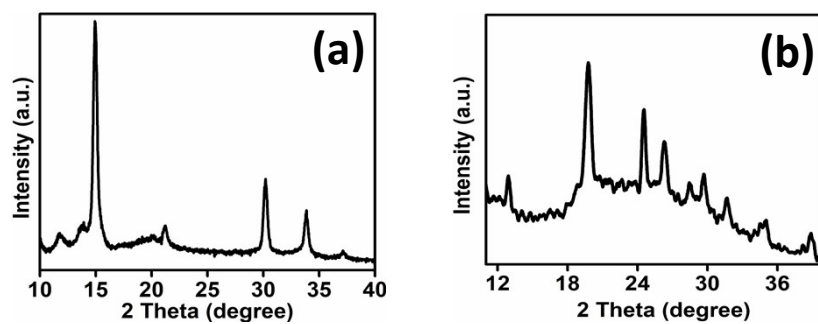


**Figure S4.** Excitation spectra of (a) PS-A (b) PS-A@TPP (c) PS-B (d) PS-B@TPP (e) PS-C (f) PS-C@TPP (g) TPP.

The excitation spectra of PNCs and PNCs@TPP were recorded at the emission wavelength of respective fluorescent perovskite nanocrystals.

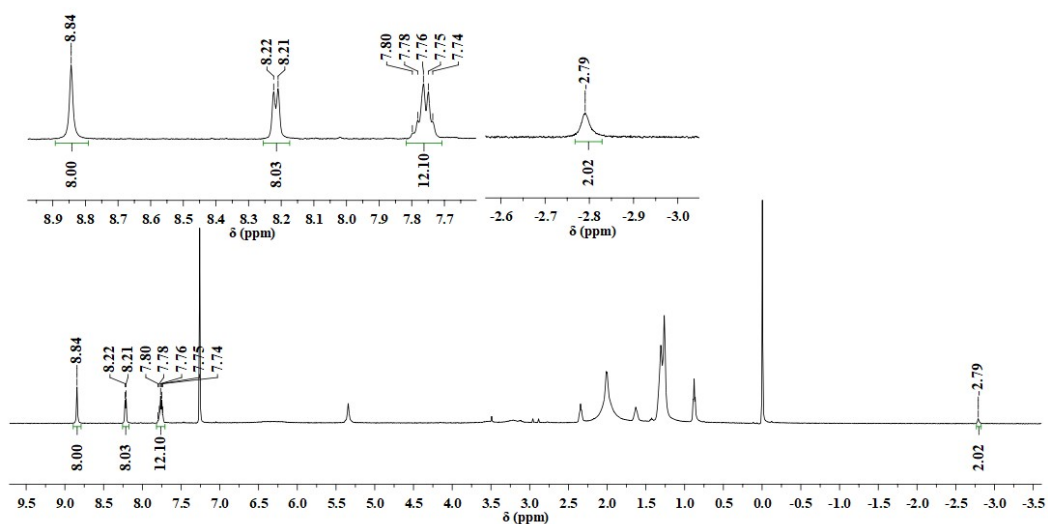


**Figure S5.** XRD pattern of MAPbBr<sub>3</sub>@TPP nanocomposites.

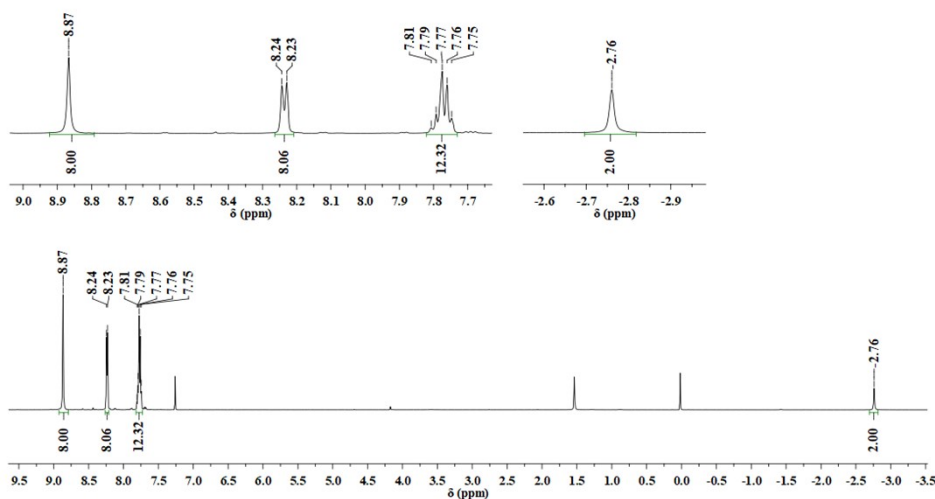


**Figure S6.** XRD pattern of (a) green luminescent MAPbBr<sub>3</sub> and (b) red luminescent MAPbI<sub>3</sub> perovskite nanocrystal.

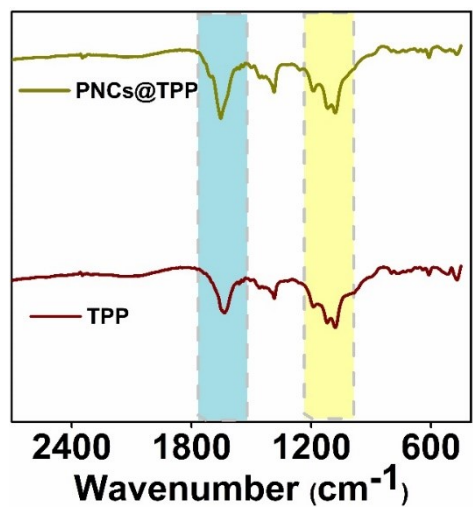




**Figure S7(a).**  $^1\text{H}$ -NMR spectra of PNCs@TPP nanocomposites in  $\text{CDCl}_3$  solvent.



**Figure S7(b).**  $^1\text{H}$ -NMR spectra of TPP molecules in  $\text{CDCl}_3$  solvent.



**Figure S8.** FT-IR spectra of TPP in the presence and absence of PNCs.