

## Supplementary Information

# Position Effects of Metal Nanoparticles on the Performance of Perovskite Light-Emitting Diodes

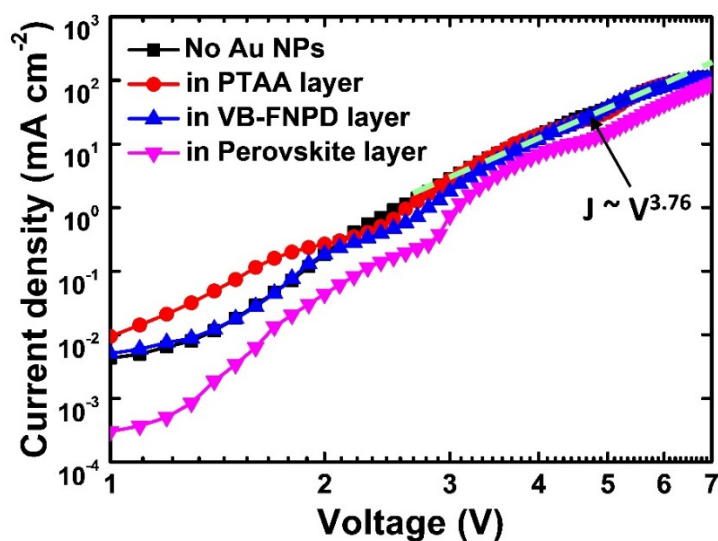
Chen-Min Yang <sup>1</sup> and Fang-Chung Chen <sup>1,2,3,\*</sup>

<sup>1</sup> Department of Photonics, College of Electrical and Computer Engineering, National Chiao Tung University, Hsinchu 30010, Taiwan; dennis51025@gmail.com

<sup>2</sup> Center for Emergent Functional Matter Science, National Chiao Tung University, Hsinchu 30010, Taiwan

<sup>3</sup> Department of Photonics, College of Electrical and Computer Engineering, National Yang Ming Chiao Tung University, Hsinchu 30010, Taiwan

\* Correspondence: fcchen@mail.nctu.edu.tw or fcchendop@nycu.nctu.edu.tw



**Figure S1.** The log-log plot of the J-V curves shown in Figure 4. The PeLEDs containing Au NPs at different device locations. The concentration of the NPs was  $5.0 \times 10^{-3} \text{ mg mL}^{-1}$ .

**Table S1.** Differential resistances of the PeLEDs in this study.

Device	Rs ( $\Omega$ )	Rsh ( $\Omega$ )
No Au NPs	$6.41 \times 10^2$	$7.84 \times 10^4$
in PTAA	$5.53 \times 10^2$	$4.67 \times 10^4$
in VB-FNPD	$6.89 \times 10^2$	$7.14 \times 10^4$
in Perovskite	$4.02 \times 10^2$	$2.31 \times 10^5$