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Electroluminescence Efficiency Enhancement in Quantum Dot Light-Emitting Diodes by Embedding a Silver Nanoisland Layer

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SI-1:

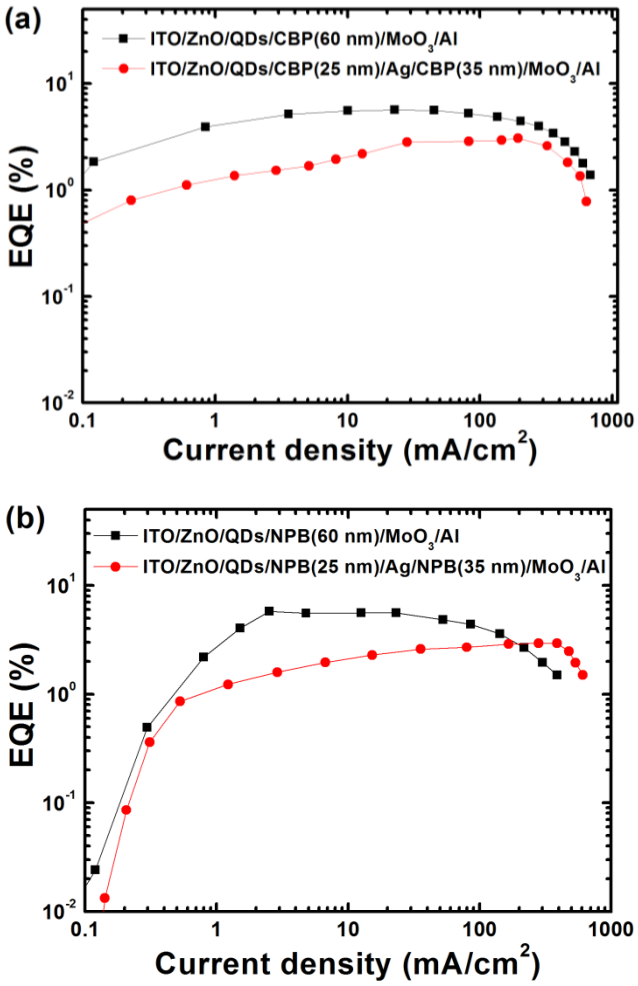

Figure S1. Comparison of efficiency for the plasmonic QLEDs using CBP (a) and NPB (b) as HTLs and their respective reference device as a function of current density.

SI-2:

The radiative decay rate without MNP is calculated using the exciton decay rate without MNP times the quantum yield ($\gamma_{0,r} = Y_0 \gamma_{0,exc}$). And, the radiative decay rate with MNP is calculated using the exciton decay rate without MNP times the quantum yield and time the enhancement factor ($\gamma_r = A(\omega_{emiss})\gamma_{0,r}$).

SI-3:

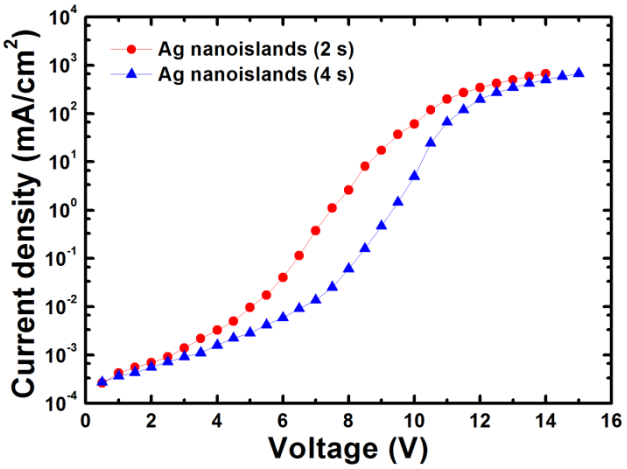

Figure S3. Comparison of J-V curve for the QLEDs embedded Ag nanoislands with the Ag deposition time of 2 s and 4 s, respectively.