Supporting Information

Application of UV-absorbing Silver(I) Luminescent Down Shifter for PTB7 Organic Solar Cells for Enhanced Efficiency and Stability

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Figure S1. ¹H NMR spectrum (400 MHz, CDCl₃, 298 K) of [Ag(POP)(Bphen)](BF₄) (AgPOP).



Figure S2. ${}^{31}P{}^{1}H$ NMR spectrum (162 MHz, CDCl₃, 298 K) of [Ag(POP)(Bphen)](BF₄) (AgPOP).



Figure S3. GPC elution curves. The measurements were carried out using THF as the solvent and calibrated by polystyrene standards.



Figure S4. UV-vis spectra of PTB7 in (a) THF solutions and (b) films.



Figure S5. Cyclic voltammogram of PTB7 on Pt plate in MeCN solution containing 0.1 M n-Bu₄NPF₆. Scan rate = 0.10 V/s.