Bis(tri-\textit{n}-alkylsilyl oxide) silicon phthalocyanines: A Start to Establishing a Structure Property Relationship as both Ternary Additives and Non-Fullerene Electron Acceptors in Bulk Heterojunction Organic Photovoltaic Devices.

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Figure S1. A) Thermo gravimetric analysis (TGA) obtained from powders of (3HS)$_2$-SiPc (green), (3BS)$_2$-SiPc (red) and (3TS)$_2$-SiPc (blue). TGA was performed at a heating rate of 10 °C / min under nitrogen.
Figure S2: Films of P3HT:\((3XS)_2\) spin-casted on glass at 25°C at 500 rpm for one minute
**Figure S3:** Films of P3HT:(3XS)$_2$ spin-casted on ITO at 25°C at 500 rpm for one minute.

P3HT:(3HS)$_2$-SiPc  P3HT:(3BS)$_2$-SiPc  P3HT:(3TS)$_2$-SiPc

**Figure S4:** Films of P3HT:(3XS)$_2$ spin-casted on PEDOT:PSS at 25°C at 1000 rpm for one minute.

P3HT:(3HS)$_2$-SiPc  P3HT:(3BS)$_2$-SiPc  P3HT:(3TS)$_2$-SiPc

**Figure S5:** Films of P3HT:(3XS)$_2$ (weight ratio of 1:0.8) spin-casted on PEDOT:PSS at 45°C at 1000 rpm for one minute.
Figure S6: Photographs of apparent crystals grown of \((3TS)_2\)-SiPc by evaporation from pyridine.

Figure S7: UV-Vis absorption of ternary thin films.