Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2017

Electronic Supplementary Information

Precise control over reduction potential of fulleropyrrolidines for organic photovoltaic materials

M. Karakawa, T. Nagai, K. Adachi, Y. Ie, Y. Aso

Fig. S1 illustrates the advantages of the Prato reaction including the ease of synthesis and scale up, without the need for a metal catalyst.



Fig. S1. Synthetic procedure for fulleropyrrolidine derivatives.



Fig. S2. Cyclic voltammograms of fulleropyrrolidine derivatives, 1–7 and PNP.



Fig. S3. Film surface morphology for OPV cells (PTB7:fulleropyrrolidine), a) **1**, b) **2**, c) **3**, d) **4**, e) **5**, f) **6** and d) **7**



Average values are in parentheses.

Figure 4. *J-V* curves and EQE spectra of compound 4F with 5, 6 and 7.