**A series of linear π conjugated arylene oligomers based on
1,5-naphthalene subunit: synthesis, characterization and properties**

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1. NMR spectra of the intermediates and the title oligomers

Fig. S1.1 The ^1H NMR spectra (400 MHz) of **2a**.

Fig. S1.2 The ^1H NMR spectra (400 MHz) of **2b**.

Fig. S1.3 The ^1H NMR spectra (400 MHz) of **3a**.

Fig. S1.4 The ^1H NMR spectra (400 MHz) of **3b**.

Fig. S1.5 The ¹H NMR spectra (400 MHz) of **4a**.

Fig. S1.6 The ¹H NMR spectra (400 MHz) of **4b**.

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Fig. S1.9 The ^1H NMR spectra (400 MHz) of **6a**.

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Fig. S1.11 The ^1H NMR spectra (400 MHz) of **8a**.

Fig. S1.12 The ^1H NMR spectra (400 MHz) of **8b**.

Fig. S1.13 The ^1H NMR spectra (400 MHz) of **9a**.

Fig. S1.14 The ^1H NMR spectra (400 MHz) of **9b**.

Fig. S1.15 The ¹H NMR spectra (400 MHz) of 10a.

Fig. S1.16 The ¹H NMR spectra (400 MHz) of 10b.

2. Thermogravimetric analysis (TGA)

Fig. S2 TGA diagrams of the title oligomers.

3. Differential scanning calorimetry (DSC)

Fig. S3 The DSC curves of the oligomers on the first cooling scan and the second

heating scan in N₂.

4. Cyclic voltammetry (CV)

Fig. S4 The cyclic voltammogram of the title oligomers.