Supplementary Information

Single Step Reductive Polymerization of Functional 3,4-Propylenedioxythiophenes via Direct C-H Arylation Catalyzed by Palladium Acetate

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Figure 1. ^1^H NMR of P1-a in CDCl$_3$
Figure 2. $^1$H NMR of 3d in CDCl$_3$
Figure 3. $^{13}$C NMR of 3d in CDCl$_3$
Figure 4. $^1$H NMR of 3e in CDCl$_3$
Figure 5. $^1$H NMR of P3a in CDCl$_3$
Figure 6. $^1$H NMR of P3b in CDCl$_3$
Figure 7. $^1$H NMR of P3c in CDCl$_3$
Figure 8. $^1$H NMR of P3d in CDCl$_3$
Figure 9. $^1$H NMR of P3e in CDCl$_3$
Figure 10: Solution doping of P1a in CHCl₃ using SbCl₅ as studied by UV-vis Spectroscopy.
Figure 11: Solution doping of P3a in CHCl₃ using SbCl₅ as studied by UV-vis Spectroscopy.
Figure 12: Solution doping of P3b in CHCl₃ using SbCl₅ as studied by UV-vis Spectroscopy.
Figure 13: Solution doping of P3c in CHCl₃ using SbCl₅ as studied by UV-vis Spectroscopy.
Figure 14: Solution doping of P3d in CHCl₃ using SbCl₅ as studied by UV-vis Spectroscopy.
Figure 15: Solution doping of P3e in CHCl₃ using SbCl₅ as studied by UV-vis Spectroscopy.