SPring-8利用推進協議会 次世代先端デバイス研究会(第1回) 2014年3月14日 @連合会館(御茶ノ水・東京)





















SIDE CHAIN TUNING

















NAPHTHODITHIOPHENE & NAPHTHOBISTHIADIAZOLE S Ν S Naphtho[1,2-b:5,6-b']dithiophene Naphtho[1,2-c:5,6-c']bis[1,2,5]thiadiazole (NDT) (NTz) C₁₂H₂₅ C₁₀H₂₁ **PNDTBT** C₁₀H₂₁ C12H25 PNTz4T $\mu = \sim 0.77 \text{ cm}^2/\text{Vs}$ $\mu = ~0.6 \text{ cm}^2/\text{Vs}$ PCE = 6.3% (~8%) I. Osaka, K. Takimiya, et al. JACS. 2010, 132, 5000. I. Osaka, K. Takimiya, et al. JACS, 2012, 134, 3498. I. Osaka, K. Takimiya, et al. JACS. 2011, 133, 6852. I. Osaka, K. Takimiya, et al. J. Mater. Chem. C. 2013, 1, 1297. Y. Cao, et al. JACS, 2011, 133, 9638.





SYNTHESIS OF PNNTs WITH ALKYLATED NDT









SUMMARY

