

Jet-printed electrodes and semiconducting oligomers for elaboration of organic thin-film transistors. Sanaur, S.; Whalley, A.; Alameddine, B.; Carnes, M.; Nuckolls, C. Department of Packaging and Flexible Substrate, Center for Microelectronics of Provence - Georges Charpak, Ecole Nationale Supérieure des Mines de Saint-Etienne, Laboratoires Morandat, Gardanne, Fr. *Organic Electronics* (2006), 7(5), 423-427.

Abstract

A new oligomer of bithiophene and substituted fluorene has been successfully synthesized, exhibiting good FET performance. Our results show that devices can be obtained from inkjetted OTFTs and elaborated by direct writing without any particular pre-patterning or self-alignment techniques. We have also demonstrated the possibility to fabricate inexpensive OTFTs by direct writing paving the way toward using inkjet printing as the key technol. for such applications in plastic electronics. The ease of this technique allows charts a clear path to flexible electronics.