Carbon-plot-microstructuring for all-polymer-transistors

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This contribution describes the use of a low-cost technology to form organic microstructures for electronical applications. We demonstrate the principle ability of this method through the fabrication of organic field effect transistors. With a computer driven plotter, substrates like printing foil and colloidal graphite (diluted in water) for the electrodes, we realized channel lengths of 20+10 micrometers. Compared with transistor devices, fabricated using conventional photolithographic methods and the same semiconducting material, this technique is a hopeful approach to produce micro electronic structures that are low-cost and all-organic.

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