

Efficient Fabrication of High-Performance Flexible Transistors using Pen Printing Technique

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A capillary pen drawing technique was developed as a new patterning methodology for the large-area patterning and fabrication of organic electronics. This approach provided several advantages over conventional approaches: the method was simple and versatile, there were no restrictions on the patterning shapes that could be produced, and the method could be tailored to a variety of substrates. Experimental results suggested several potential application directions for the site-selective patterning technique, including conductive text, electronic art, and electronic array connections. Our approach provides that capillary pen is a quite versatile method to fabricate the soluble organic patterns consisting of the semiconducting/conducting/insulating materials.