

Nanomanufacturing Tools and Processes for Flexible Electronics and Sensors Applications

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The Center for High-rate Nanomanufacturing (CHN) is developing tools and processes that will enable high-rate/high-volume bottom-up, precise, parallel assembly of nanoelements (such as carbon nanotubes, nanoparticles, etc.) and polymer nanostructures. The center has developed and fabricated a variety of novel templates with nanostructures down to 20 nm and utilized them to conduct directed assembly of carbon nanotubes, nanoparticles, and polymers. The presentation will describe how these nanomanufacturing processes can be used in a number of applications, including EMI shielding, flexible electronics, structural materials, and novel sensors.

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