

[NS-03]

Soft Lithographic Methods for Micro/Nanofabrication

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Micro/nanofabrication is essential to much of modern science and technology. The patterning required in microfabrication is usually carried out with photolithography. Despite the extraordinary success, photolithography has disadvantages. This presentation will describe soft lithography, a collective name for techniques based on self-assembly and molding, as a convenient and low-cost approach to micro/nanofabrication. I focus primarily on the procedures for three soft lithographic techniques, microcontact printing, decal transfer microlithography, and light-coupling mask, as well as their potential applications in the fabrication of patterns.