

## Collective transfer of nanopatterns using flexible conductive mold

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A new lithography method (nanoelectrode lithography) using a flexible conductive mold (FCM) to collectively transfer nano-patterns in large area via an electrochemical reaction is demonstrated. Compared to conventional nanoimprint methods, this method is not only able to reduce the number of process steps thus fabrication cost, but also can improve the throughput and the accuracy due to resistless process. Oxide nano-patterns with a half pitch of 200 nm corresponding to the conductive pattern of FCM were collectively transferred on a Si substrate in millimeter-scale area.

