Acoustic Tweezers Can Position Tiny Objects

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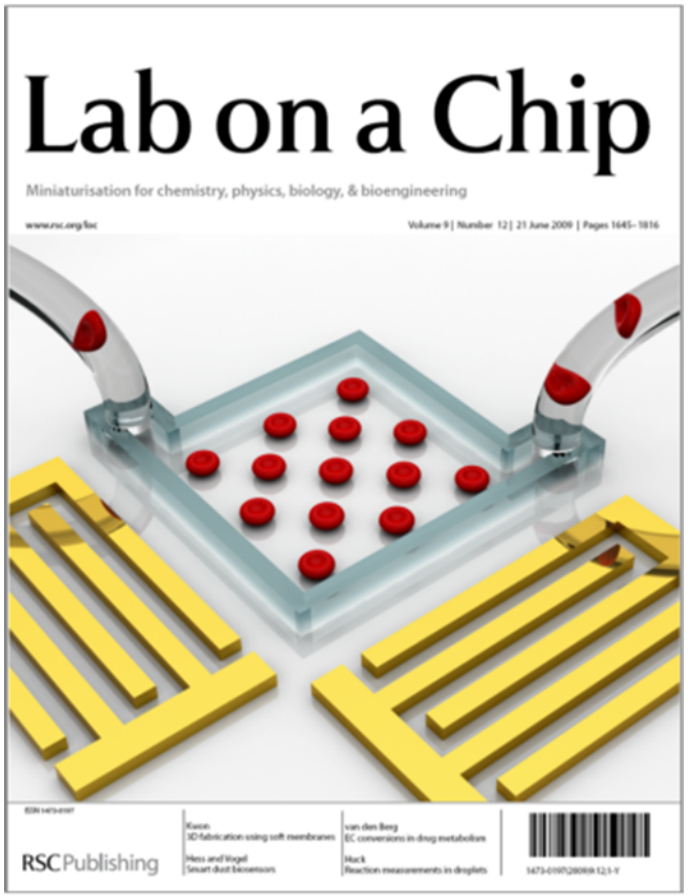
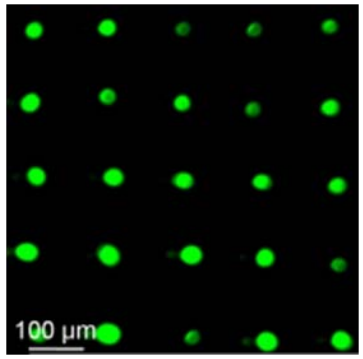
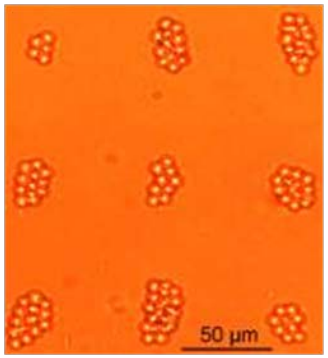


Researchers at the Penn State NNIN invented an "Acoustic Tweezers"—utilizing sound waves to manipulate particles into desired patterns on a microchip. The tweezers work virtually on all kinds of cells and other biomaterials regardless of size, shape or charge/optical properties, with a 500,000 times less power intensity than optical tweezers, an existing patterning method. This makes them cheaper and safer, ready to be used in many applications such as tissue engineering, cell studies, and drug screening and discovery.

J. Shi, *et al., Lab Chip.* 9, DOI: 10.1039/b910595f (2009).





Penn State Site
NNIN
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NNIN is a place for transferring innovative ideas to reality—acoustic tweezers can be an ideal tool in biomaterial manipulation.