

Royal Society of Chemistry approved training courses

Explore your options.
Develop your skills.
Discover learning
that suits you.

**Courses in the classroom,
the lab, or online**

Find something for every
stage of your professional
development. Search our
database by:

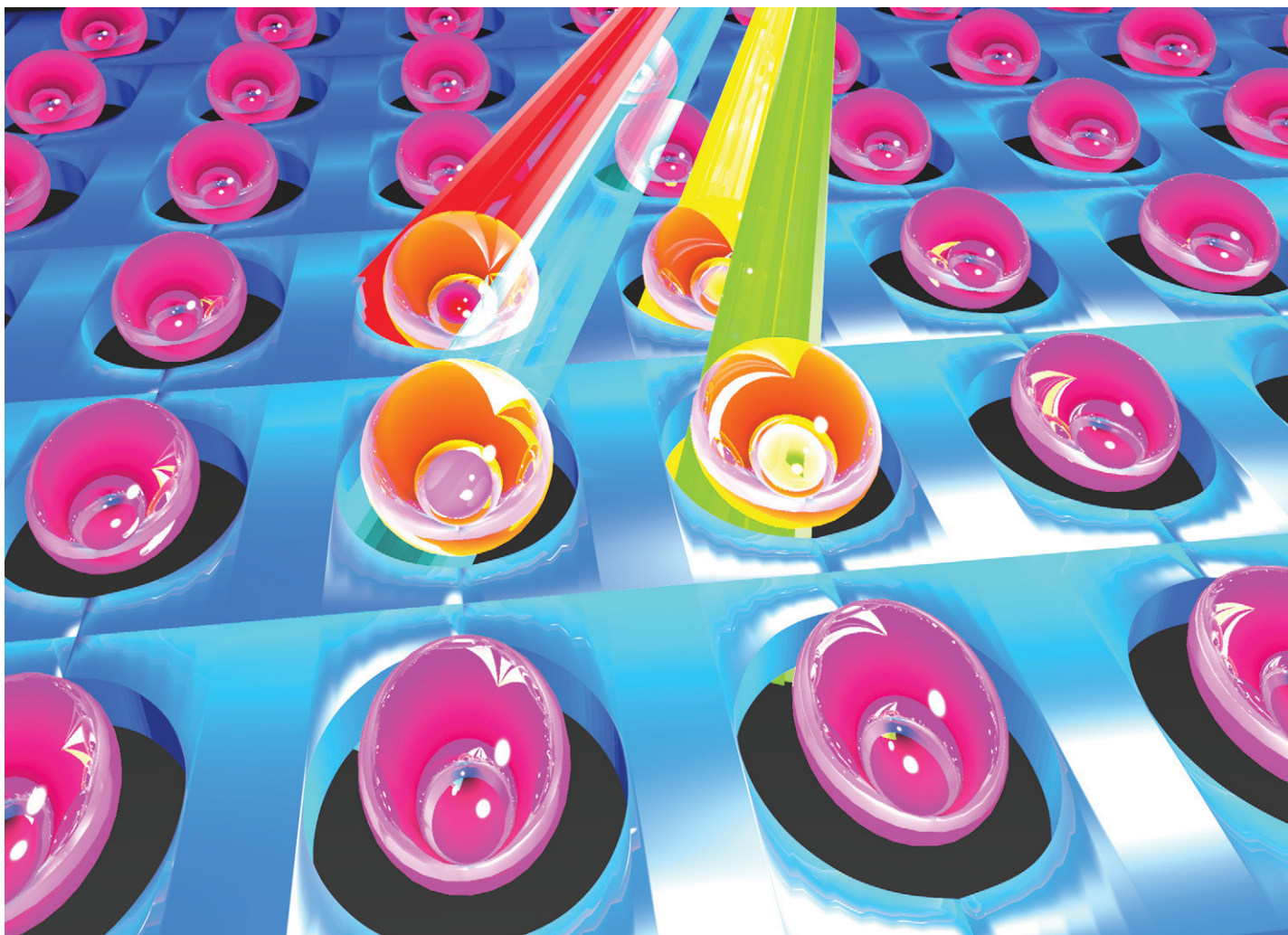
- subject area
- location
- event type
- skill level

Members **get at least 10% off**

Visit rsc.li/cpd-training



**SAVE
10%**



Showcasing research from Bio- μ -Nano Research Laboratory of Professor Tuhin Subhra Santra, Department of Engineering Design, Indian Institute of Technology Madras, India.

Ultrathin SU-8 membrane for highly efficient tunable cell patterning and massively parallel large biomolecular delivery

This study presents a novel and efficient technique that enables massively parallel high throughput single cell to cell cluster of cells patterning and precise delivery of small to large biomolecules into patterned cells. The cell patterning is achieved using a standalone, ultrathin 3D SU-8 micro-stencil membrane. Our platform successfully delivered PI dye, dextran, siRNA, and enzyme on patterned cells using a titanium micro-rings device active using infrared light pulses. The device is compact, reusable, and facilitates highly efficient cell patterning with high biomolecular transfection efficiency and cell viability, making it a promising tool for diagnostics and therapeutic applications.

As featured in:



See Tuhin Subhra Santra *et al.*,
Lab Chip, 2023, **23**, 4636.
Copyright owner is Srabani Kar.