

Advance your career in science

with professional recognition that showcases
your **experience, expertise and dedication**

Stand out from the crowd

Prove your commitment
to attaining excellence in
your field

Gain the recognition you deserve

Achieve a professional
qualification that inspires
confidence and trust

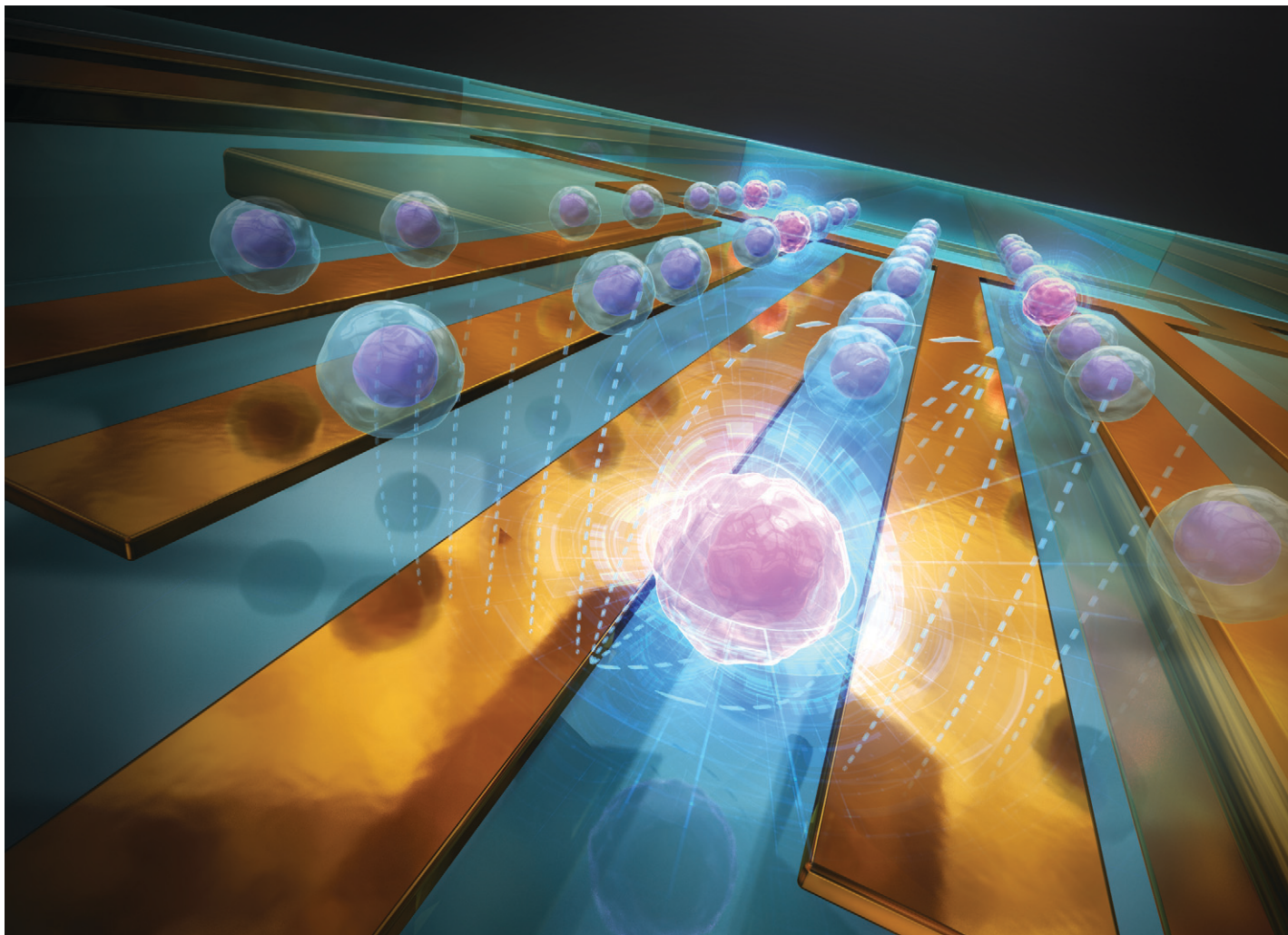
Unlock your career potential

Apply for our professional
registers (RSci, RSciTech)
or chartered status
(CChem, CSci, CEnv)

Apply now

[rsc.li/professional-development](https://www.rsc.li/professional-development)





Showcasing research from Micro/nanoscale thermofluidics research group of Professor Masahiro Motosuke, Tokyo University of Science, Tokyo, Japan.

Continuous-flow electroration (cROT): improved throughput characterization for dielectric properties of cancer cells

This study presents a novel assay platform, continuous-flow electroration (cROT), a label-free characterization technique for the electric properties of cancer cells under continuous flow conditions. The electrode array on the top and bottom substrates torques the cells with a vertical rotation axis to the main flow in the microchannel. The proposed cROT device can perform simultaneous measurements of electric properties, cytoplasm conductivity and membrane permittivity, for multiple cells with an improved throughput.

As featured in:



See Masahiro Motosuke *et al.*, *Lab Chip*, 2023, **23**, 4986.