

RSC Applied Polymers

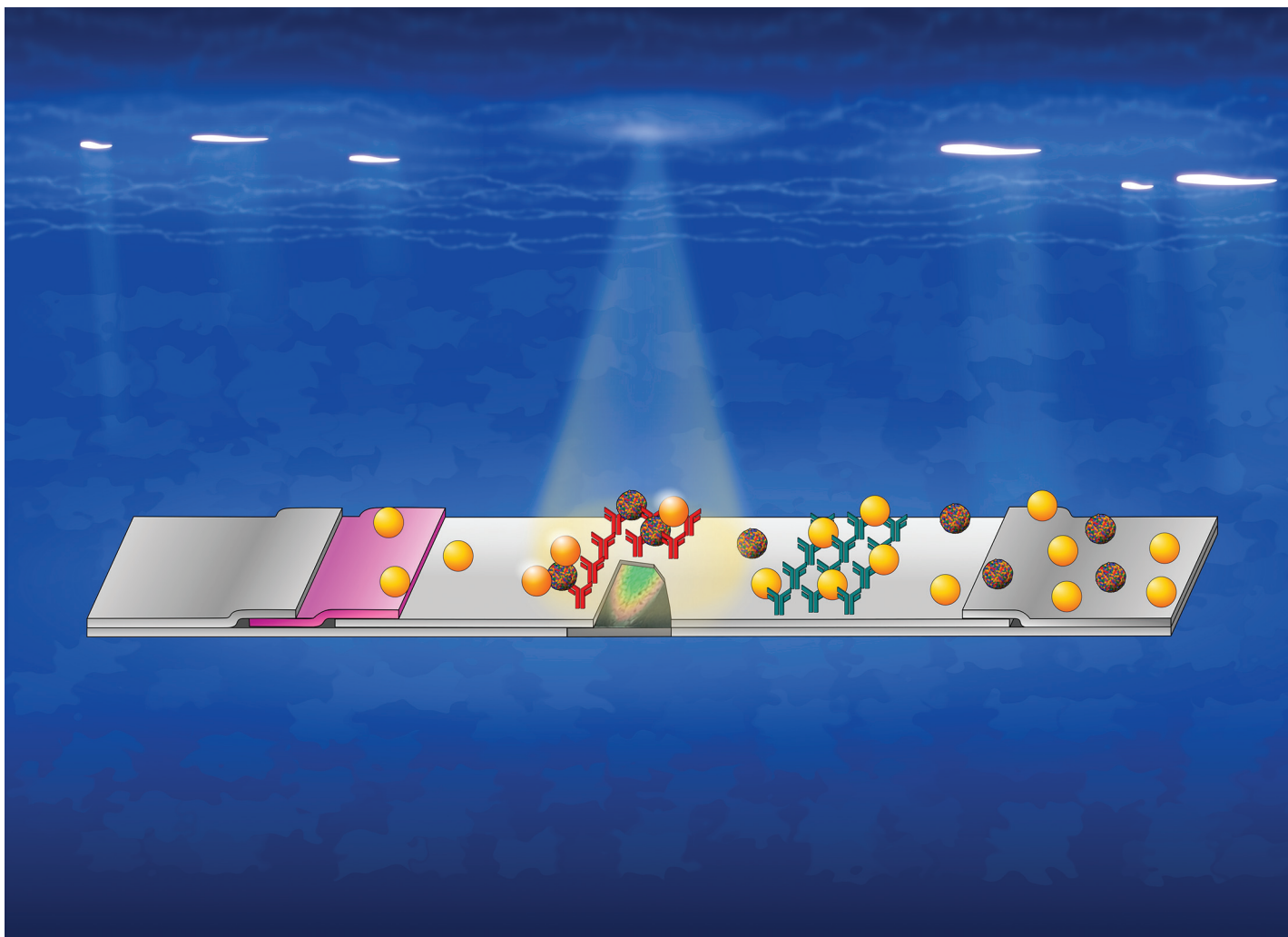
GOLD
OPEN
ACCESS

The application of polymers,
both natural and synthetic

Interdisciplinary and open access

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Fundamental questions
Elemental answers

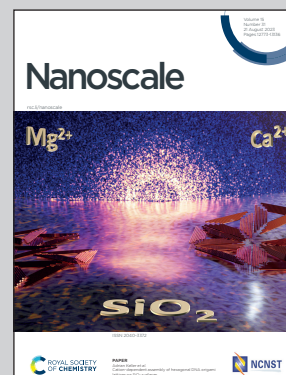


Showcasing research from Prof. Nguyen Thi Kim Thanh's laboratory, Biophysics Group, Department of Physics and Astronomy, University College London, UK.

Development of a thermochromic lateral flow assay to improve sensitivity for dengue virus serotype 2 NS1 detection

A lateral flow assay is combined with photothermal nanoparticles and thermochromic sheet for the detection of recombinant dengue virus serotype 2 NS1 protein. By optically stimulating nanoparticles, their temperature is raised and thus being sensed by thermochromic sheet, which results in coloured visual signal. This thermal sensing-based technique is cost-effective and shows significant sensitivity enhancement.

As featured in:



See Nguyen Thi Kim Thanh *et al.*, *Nanoscale*, 2023, **15**, 12915.