

# 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

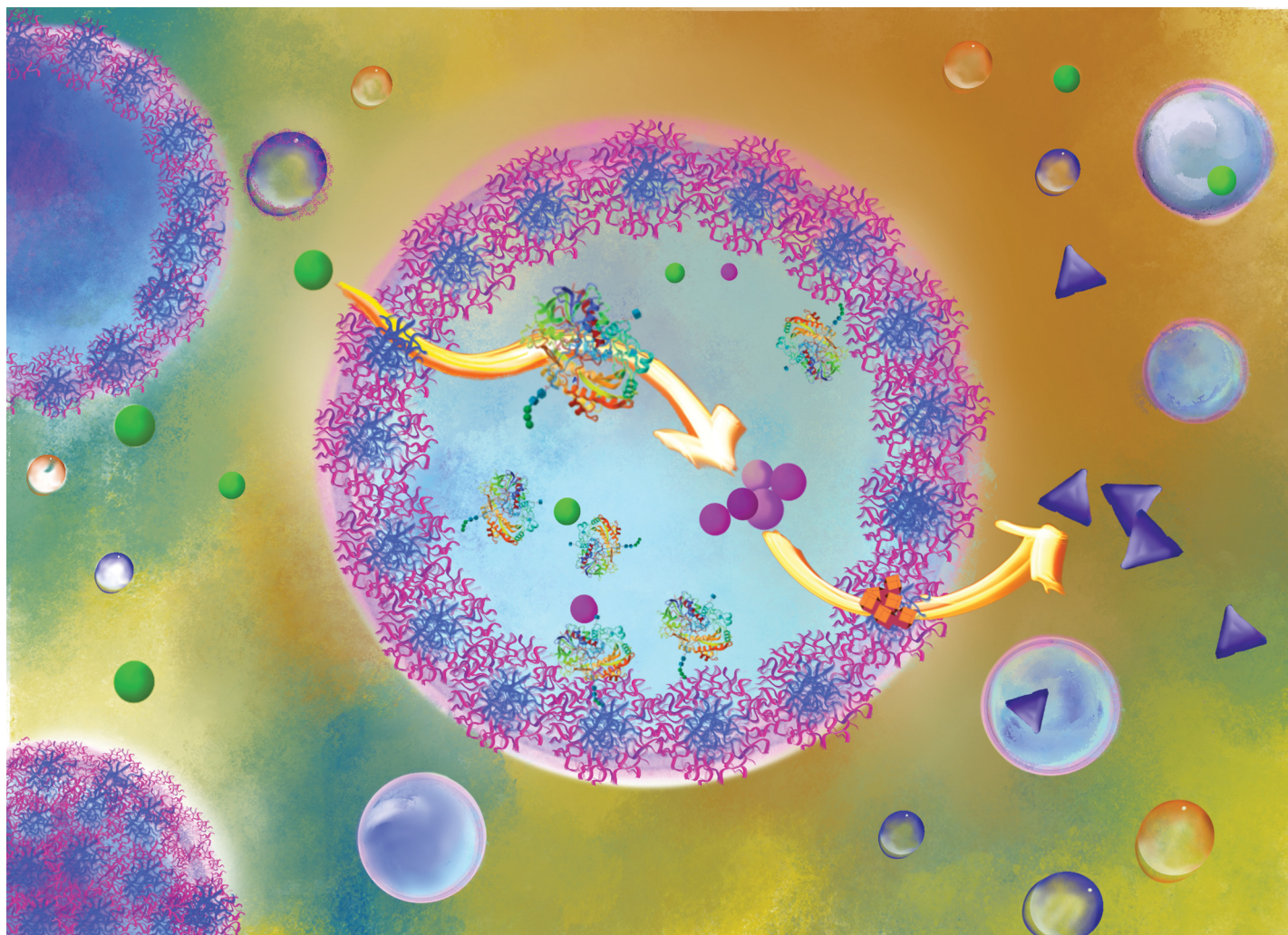
## Unlock your career potential

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

## Apply now

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





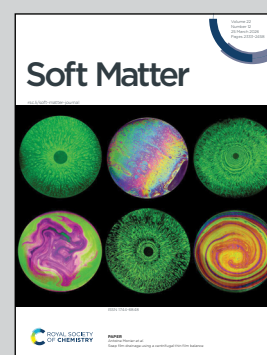
**Showcasing research from Professor Bijay P. Tripathi's laboratory, Department of Materials Science & Engineering, Indian Institute of Technology Delhi, New Delhi, India.**

Modular coupling of iron nanozymes and natural enzymes in responsive microgel reactors for enhanced cascade catalysis

$\text{Fe}_3\text{O}_4$  nanozyme-loaded poly(*N*-isopropylacrylamide-*co*-serine) microgels were assembled at oil-water interfaces to generate functional Pickering microcapsules. The iron nanozyme embedded within the microgel membrane worked in concert with enzymes sequestered in the aqueous core, creating a confined yet highly interactive reaction environment. This engineered spatial compartmentalization intensified cascade efficiency, establishing a responsive soft-matter reactor that unites structural precision with catalytic synergy for enhanced chemo-enzymatic transformations.

Image reproduced by permission of Bijay P. Tripathi from *Soft Matter*, 2026, **22**, 2364.

**As featured in:**



See Divya Gaur and Bijay P. Tripathi, *Soft Matter*, 2026, **22**, 2364.