

# Soft Matter

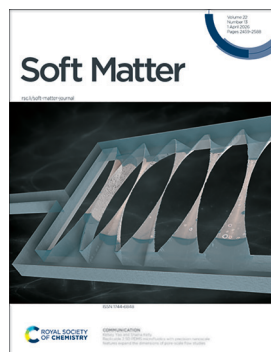
Where physics meets chemistry meets biology for fundamental soft matter research

[rsc.li/soft-matter-journal](https://rsc.li/soft-matter-journal)

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

## IN THIS ISSUE

ISSN 1744-6848 CODEN SMOABF 22(13) 2459-2588 (2026)



### Cover

See Kelsey Yao and Shaina Kelly, pp. 2466–2473. Image reproduced by permission of Kelsey Yao and Shaina Kelly from *Soft Matter*, 2026, 22, 2466. Acknowledgement: Modifications applied using AI.



### Inside cover

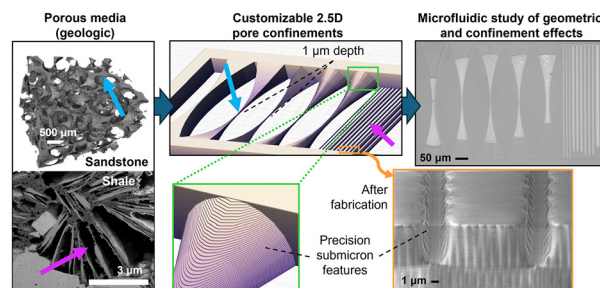
See Nobuyuki Magome, Kenichi Yoshikawa *et al.*, pp. 2482–2486. Image reproduced by permission of N. Magome and K. Yoshikawa from *Soft Matter*, 2026, 22, 2482.

## COMMUNICATIONS

2466

### Replicable 2.5D PDMS microfluidics with precision nanoscale features expand the dimensions of pore-scale flow studies

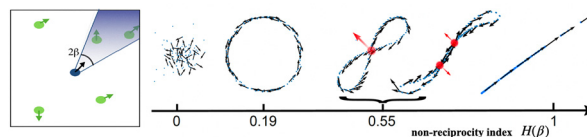
Kelsey Yao and Shaina Kelly\*



2474

### Zoology of collective patterns modulated by non-reciprocal, long-range interactions

Edgardo Brigatti and Fernando Peruani



# 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](https://rsc.li/cpd-training)



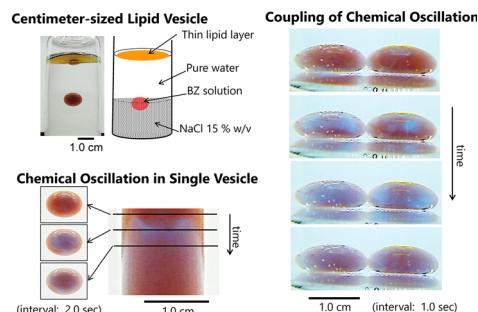
**SAVE  
10%**



2482

### Ultra-giant lipid vesicles functioning as a centimeter-sized smart chemical reactor

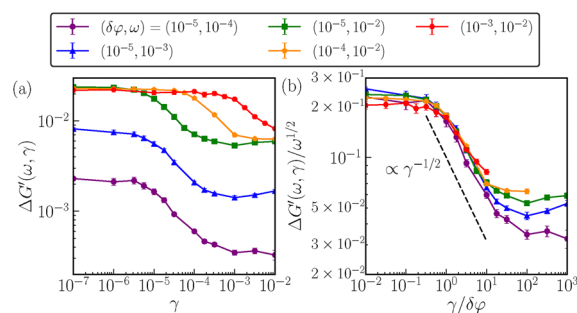
Nobuyuki Magome,\* Kaichi Nomura, Masato Hayashi, Yutaka Sumino and Kenichi Yoshikawa\*



2487

### Pre-yielding mechanical response near the jamming transition

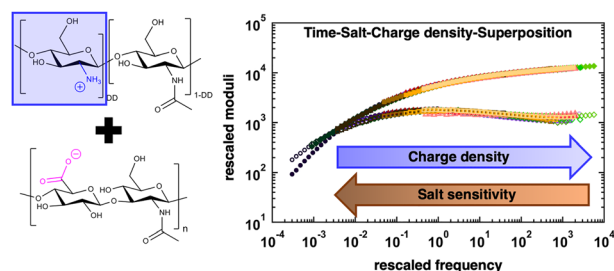
Hidemasa Bessho,\* Takeshi Kawasaki and Kunimasa Miyazaki



2499

### The effect of charge density on the viscoelasticity and underwater adhesion of entangled complex coacervates from semi-rigid polysaccharides

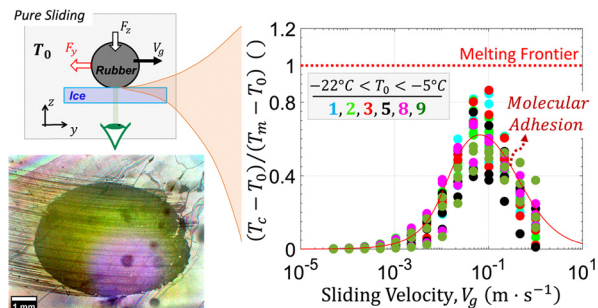
Maxime Precheur, Ali Kanan, Alexei Dmitrievitsj Filippov, Kylian Virieux, Stéphane Trombotto, Fouzia Boulmedais and Mehdi Vahdati\*



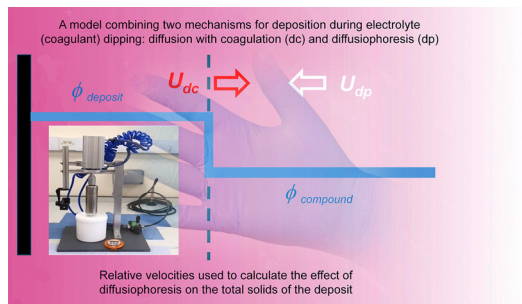
2514

### Ice–rubber friction mechanisms across scales

Anderson Dalavale Kaiser Pinto, Denis Mazuyer and Juliette Cayer-Barrioz\*



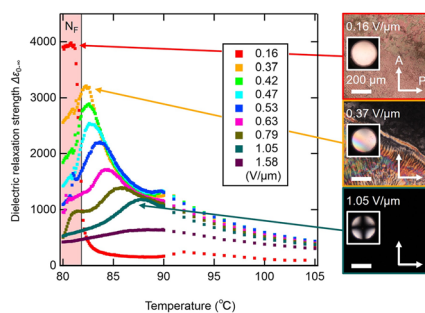
2526



### Mechanisms of electrolyte (coagulant) dipping for thin nitrile gloves

Robert Groves, Kota Hatakeyama and Alexander F. Routh\*

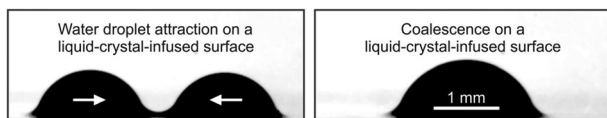
2538



### Field-induced phase transition behaviour of ferroelectric nematic liquid crystals under DC electric fields

Mahiro Nakase, Hirokazu Kamifuji, Kazuma Nakajima,\* Hirotsugu Kikuchi, Kenjiro Fukuda and Masanori Ozaki\*

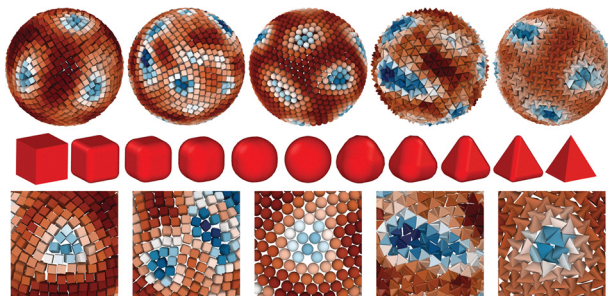
2545



### Water droplet attraction and coalescence on liquid-crystal-infused textured and porous surfaces

Filip Ferš, Xiaoguang Wang and Uroš Tkalec\*

2558

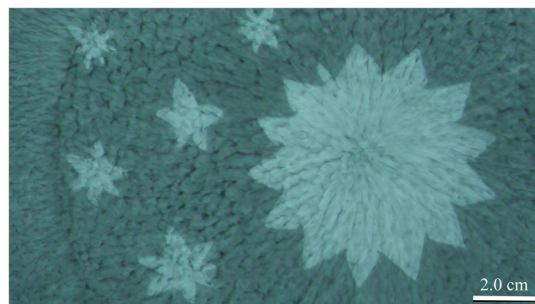


### Using particle shape to control defects in colloidal crystals on spherical interfaces

Gabrielle N. Jones, Philipp W. A. Schönhofer and Sharon C. Glotzer\*



2568

**Crack patterns of black ink film: sumi-wari**Michiko Shimokawa,\* Lucas Goehring, Akie Kinoshita,  
Ludovic Pauchard and Hidetsugu Sakaguchi

2578

**Nudging cell migration from within through microrod-induced morphological deformation**

Masayuki Hayakawa,\* Tatsuya Tanaka and Hiroaki Suzuki

