

# Soft Matter

Where physics meets chemistry meets biology for fundamental soft matter research

[rsc.li/soft-matter-journal](http://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(20) 3563-3676 (2026)



### Cover

See Daichi Sato, Yoshiko Takenaka *et al.*, pp. 3569–3578. Image reproduced by permission of Daichi Sato from *Soft Matter*, 2026, 22, 3569.



### Inside cover

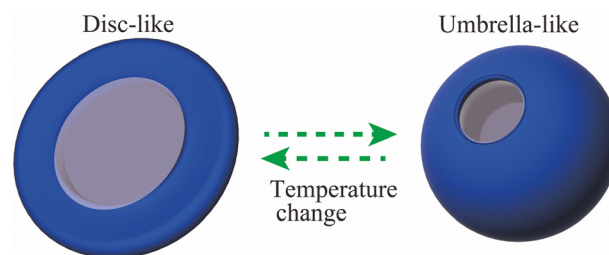
See Atul N. Parikh *et al.*, pp. 3579–3589. Image reproduced by permission of Archan Vyas and Atul Parikh from *Soft Matter*, 2026, 22, 3579.

## PAPERS

3569

### Morphological changes in smectic liquid crystal microstructures

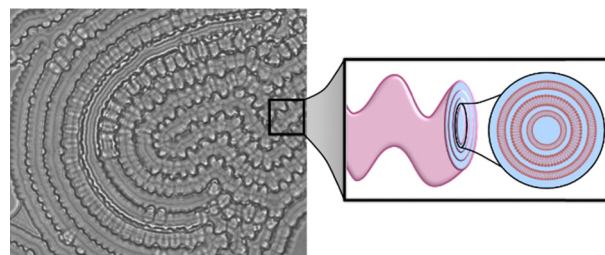
Daichi Sato, Yutaka Sumino, Takahiro Yamamoto, Igor Mušević and Yoshiko Takenaka\*



3579

### Entropic depletion of macromolecular solutes induces symmetry-breaking surface wrinkling in myelin figures

Archan P. Vyas, Pallavi D. Sambre, Leren Wang, Prianka Deshmukh and Atul N. Parikh\*



# 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)



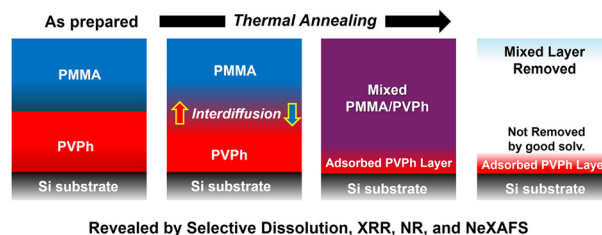
**SAVE  
10%**



3590

### Interfacial adsorption competing with thermal mixing in confined hydrogen-bonded polymer bilayers

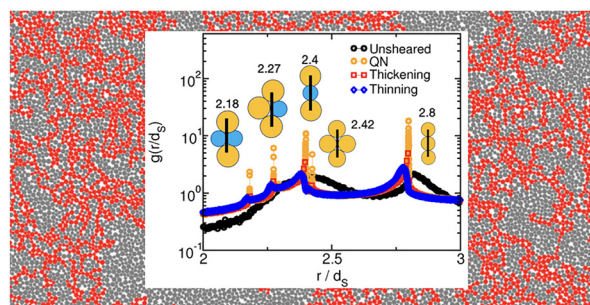
Hisashi Tetsutani, Masashi Ohno, Yohei Nakanishi, Tsukasa Miyazaki, Mikihiro Takenaka, Norifumi L. Yamada, Hideki Seto, Hiroyuki Aoki and Katsuhiko Yamamoto\*



3598

### Disentangling microstructural elements of shear thickening suspensions via computer simulations of a minimal model

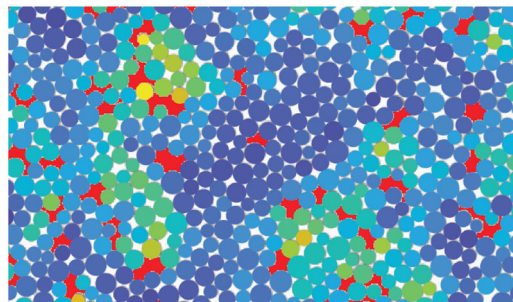
William C. J. Buchholtz, Daniel L. Blair, Jeffrey S. Urbach, H. A. Vinutha\* and Emanuela Del Gado\*



3610

### Structural aging of a cohesive and amorphous granular solid under cyclic loading

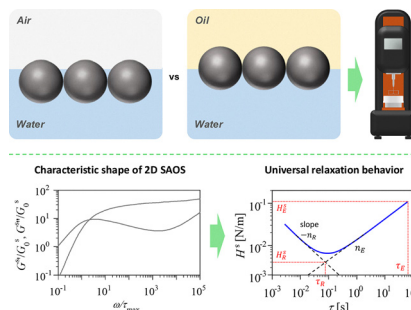
William Hobson-Rhoades, Douglas J. Durian, Yue Fan and Hongyi Xiao\*



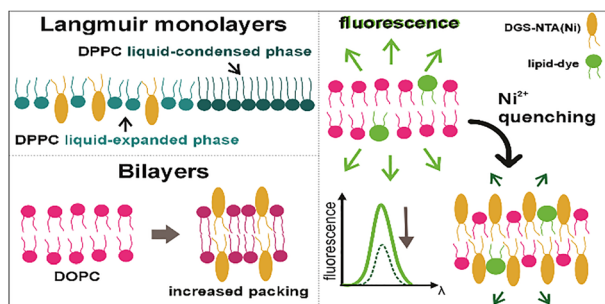
3620

### Scaling dynamics of particles confined at fluid–fluid interfaces

Eduarda B. Oliveira, Elton L. Correia, H. Henning Winter and Sepideh Razavi\*



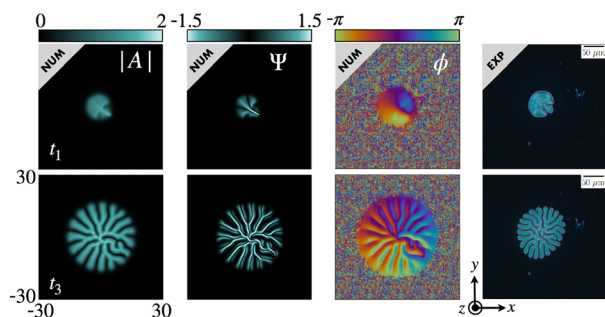
3633



### NTA-Ni lipids affect membrane phase behavior and fluorescence of lipid-like dyes

Agustin Mangiarotti,\* Maria Julia Altamirano, Maira Celeste Dominguez and Natalia Wilke\*

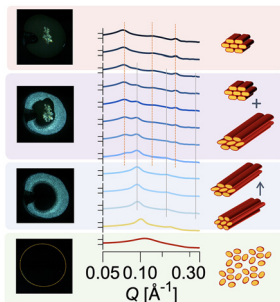
3646



### Confined labyrinthine pattern in chiral liquid crystal droplets

M. Rubio-Saldias,\* V. Fernandez-Gonzalez, M. G. Clerc, P. I. Hidalgo and J. Vergara

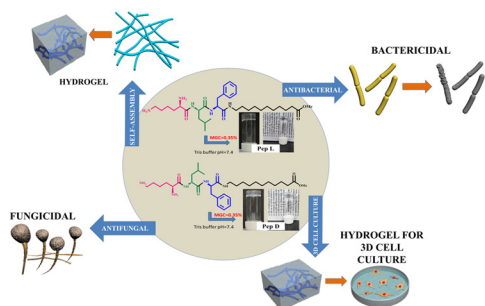
3653



### Liquid crystalline order delays crystallisation in mixed surfactant systems

Sepideh Khodaparast,\* William N. Sharratt, Robert M. Dalgliesh and João T. Cabral

3662



### Lysine containing amphiphilic peptide-based non-cytotoxic soft materials with potential antifungal and antibacterial activities for 3D cell culture

Sagnik Banerjee, Sayani Haldar, Supratim Bose, Sandipan Chatterjee, Valeria Castelletto, Ian W. Hamley, Deepak Kumar Sinha and Arindam Banerjee\*

