

Soft Matter

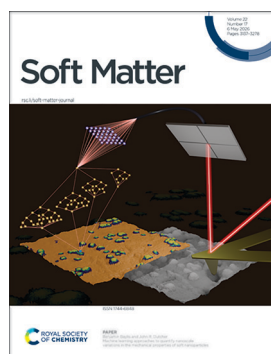
Where physics meets chemistry meets biology for fundamental soft matter research

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(17) 3137-3278 (2026)



Cover

See Benjamin Baylis and John R. Dutcher, pp. 3143–3155. Image reproduced by permission of Benjamin Baylis from *Soft Matter*, 2026, 22, 3143.



Inside cover

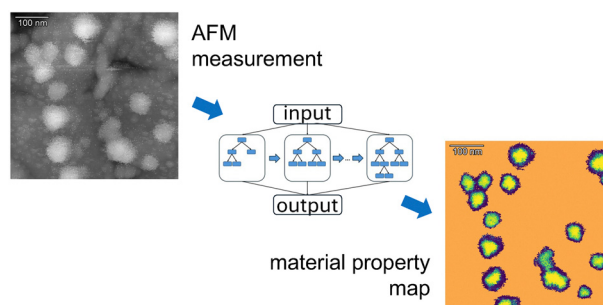
See Kyle J. M. Bishop, Bhuvnesh Bharti *et al.*, pp. 3156–3164. Image reproduced by permission of Bhuvnesh Bharti from *Soft Matter*, 2026, 22, 3156.

PAPERS

3143

Machine learning approaches to quantify nanoscale variations in the mechanical properties of soft nanoparticles

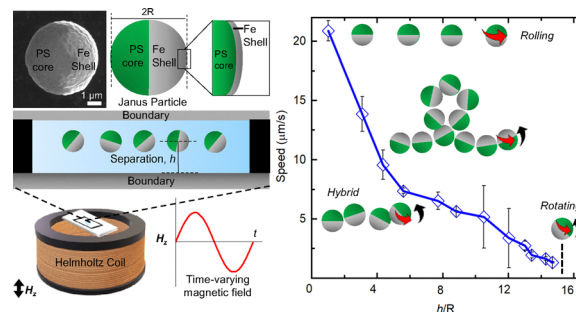
Benjamin Baylis and John R. Dutcher*



3156

Steady rotation and wall-mediated dynamics of magnetic Janus particles in oscillating fields

Amrutha Raghu, Kyle J. M. Bishop* and Bhuvnesh Bharti*



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



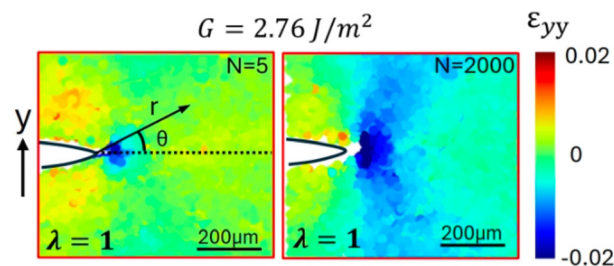
**SAVE
10%**



3165

Microscopic measurement of the local deformation field establishes the mechanistic origin of the fatigue threshold for soft brittle materials

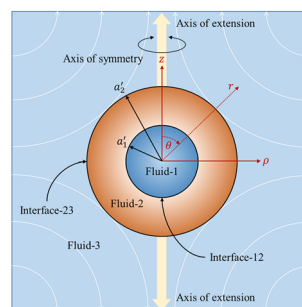
Umut Altuntas, Chenzhuo Li and John Martin Kolinski*



3174

Morphology of compound viscoelastic drops in extensional flows

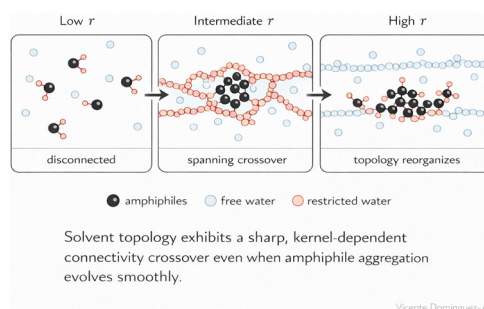
Malay Vyas and Uddipta Ghosh*



3196

A solvent-topology perspective on hydrophobic aggregation

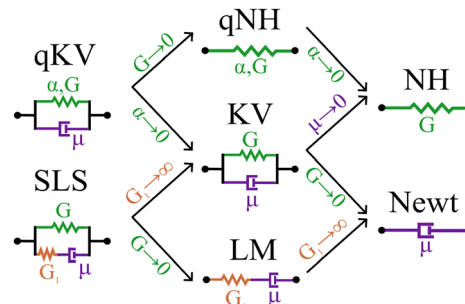
Vicente Dominguez-Arca



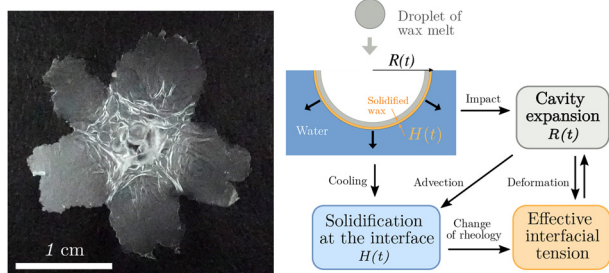
3207

Hierarchical Bayesian constitutive model selection for high-strain-rate soft material characterization

Victor Sanchez, Sawyer Remillard, Bachir A. Abeid, Lehu Bu, Spencer H. Bryngelson, Jin Yang, Jonathan B. Estrada and Mauro Rodriguez Jr.*



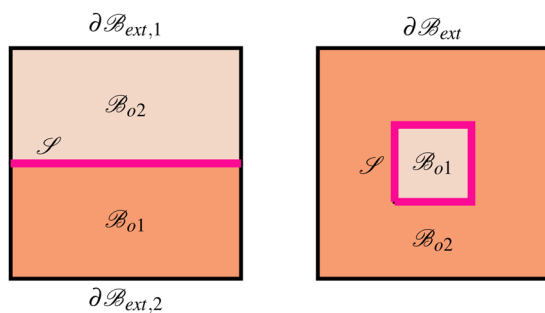
3224



Effective interfacial tension of a film solidified during the collision of a molten wax droplet with a water surface

So Kitsunezaki,* Rina Nakashioya, Chihiro Uemura and Akio Nakahara

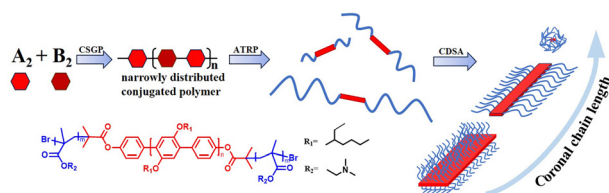
3238



Thermal dehydration of swollen heterogeneous soft materials

Michele Curatolo, Giuseppe Tomassetti, Ruud van der Sman and Luciano Teresi*

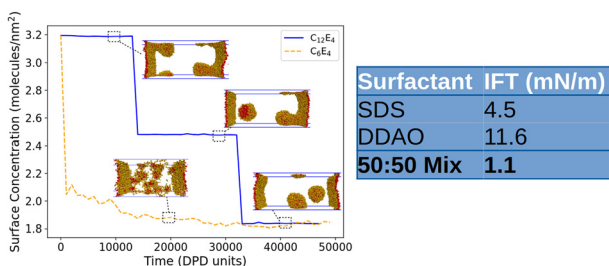
3252



Morphological transitions in the crystallization-driven self-assembly of narrowly distributed π -conjugated triblock copolymers

Bin Huang, Donglai Tian, Zhubin Liu, Yan Chen Deng, Guiyou Wang* and Aiguo Hu*

3259



Quantitative prediction of oil–water interfacial tension in surfactant systems using dissipative particle dynamics

Rachel L. Hendrikse,* Carlos Amador, Matthew Davies and Mark R. Wilson*

