

Soft Matter

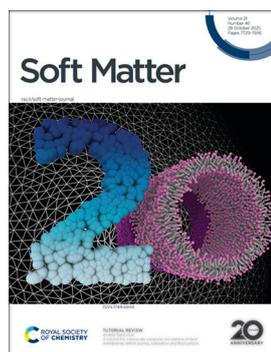
Where physics meets chemistry meets biology for fundamental soft matter research

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 21(40) 7729-7896 (2025)



Cover

See Anđela Šarić *et al.*, pp. 7736–7756. Image reproduced by permission of Maitane Muñoz-Basagoiti and Miguel Amaral from *Soft Matter*, 2025, 21, 7736. Artist credit: Maitane Muñoz-Basagoiti and Miguel Amaral.



Inside cover

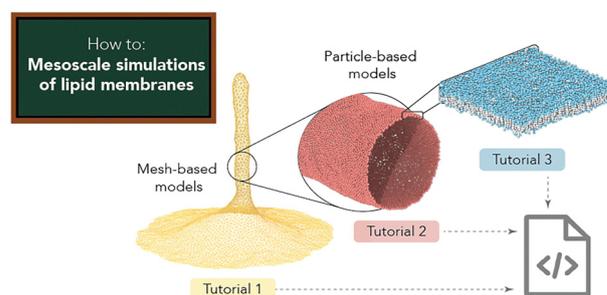
See Rebecca Kramer-Bottiglio *et al.*, pp. 7757–7767. Image reproduced by permission of Nidhi Pashine from *Soft Matter*, 2025, 21, 7757.

TUTORIAL REVIEW

7736

A tutorial for mesoscale computer simulations of lipid membranes: tether pulling, tubulation and fluctuations

Maitane Muñoz-Basagoiti, Felix Frey, Billie Meadowcroft, Miguel Amaral, Adam Prada and Anđela Šarić*

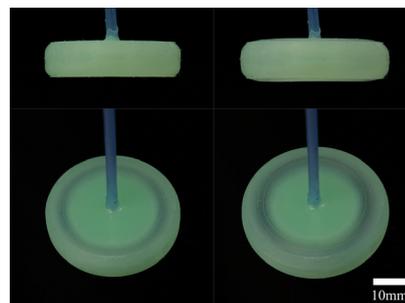


PAPERS

7757

Tuning the size and stiffness of inflatable particles

Nidhi Pashine, Dong Wang, Robert Baines, Medha Goyal, Mark D. Shattuck, Corey S. O'Hern and Rebecca Kramer-Bottiglio*



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



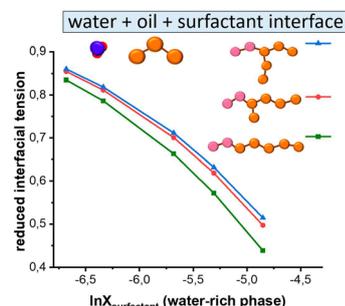
**SAVE
10%**



7768

Prediction of the effect of branching of molecular chain on the structure of interface and interfacial tension in systems containing water, alkane and nonionic surfactant

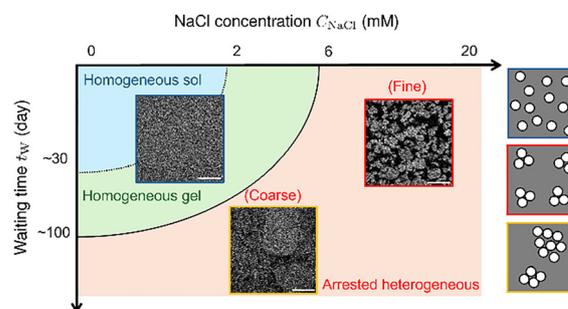
Polina O. Sorina and Alexey I. Victorov*



7776

Real-space observation of salt-dependent aging in LAPONITE® gels

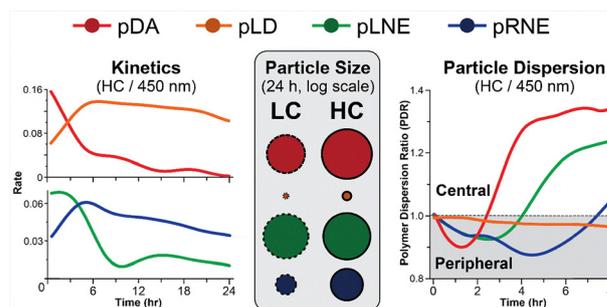
Shunichi Saito,* Sooyeon Kim, Yuichi Taniguchi and Miho Yanagisawa*



7786

Chirality and concentration govern polycatecholamine self-assembly: a comparative study of dopamine, levodopa, and norepinephrine

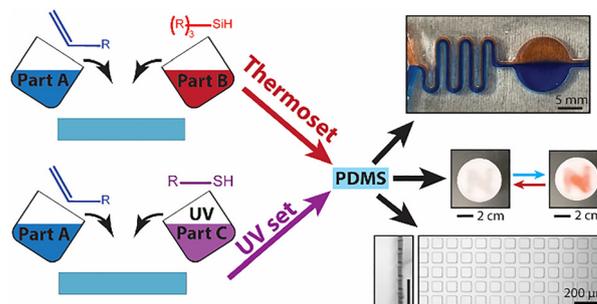
Alexander J. Steeves and Fabio Variola*



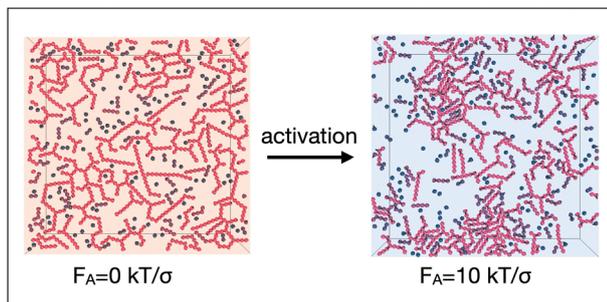
7803

Facile conversion of commercial silicones from thermoset to ultraviolet-set for increased processing versatility

Matthew R. Jamison, Spencer Pak, Eric J. Markvicka and Stephen A. Morin*



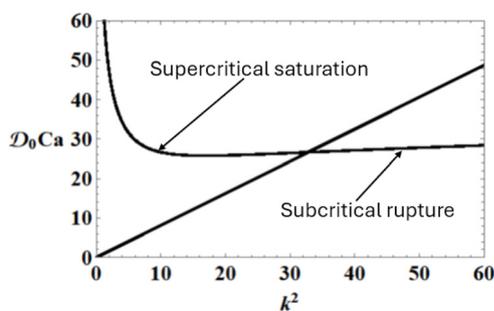
7811



Activation of colloidal patchy particle networks

H. J. Jonas, N. Oikonomas, P. Schall and P. G. Bolhuis*

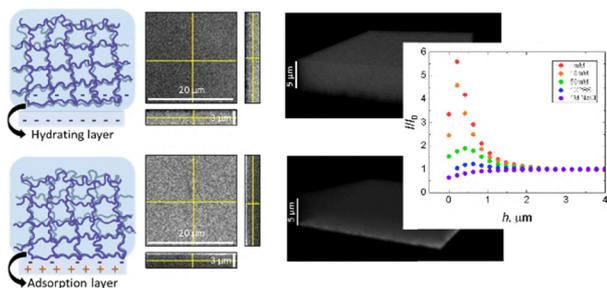
7824



Branching dynamics in electrohydrodynamic instabilities of viscoelastic soft gels

Gyandeep Balram and Bhagavatula Dinesh*

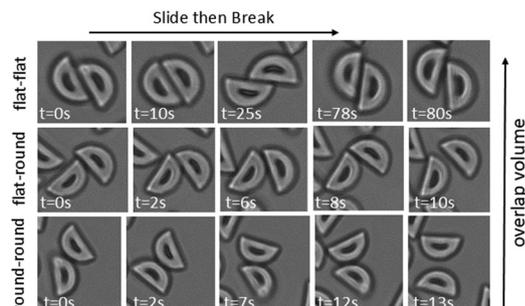
7842



Local deformation and dynamics of cross-linked hyaluronic acid gels at charged interfaces

Sujata Dhakal, Samyuktha Chandrasekar, Adediwura Deborah Adedeji and Svetlana Morozova*

7851



Lifetime and fluctuations of specific bonds between anisotropic colloids mediated through depletion interactions

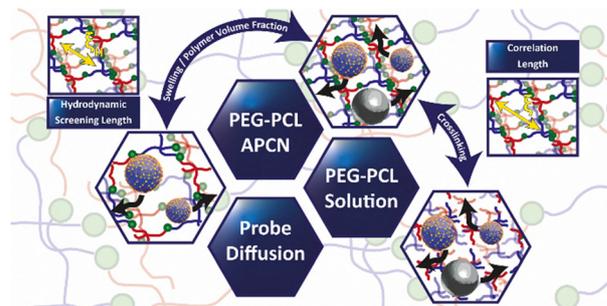
M. Mayarani,* Justine Laurent, Martin Lenz, Olivia du Roure* and Julien Heuvingh



7860

Diffusive probe penetration for characterization of diffusion-governing length scales in amphiphilic PEG–PCL co-networks

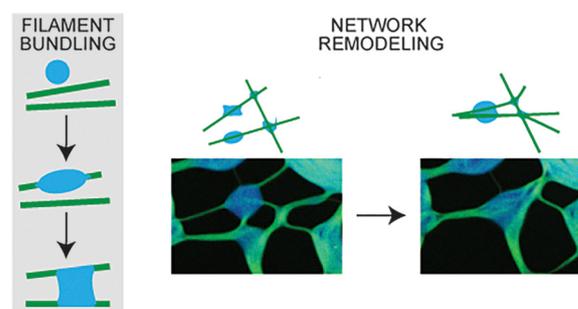
Sebastian Seitel, Nico Perez Lopez, Stephanie Ihmann, Frank Böhme and Sebastian Seiffert*



7872

Protein condensates induce biopolymer filament bundling and network remodeling via capillary interactions

Carolyn A. Feigeles, Artis Brasovs, Adam Puchalski, Olivia Laukat, Konstantin G. Kornev and Kimberly L. Weirich*



7881

Why epithelial cells collectively move against a traveling signal wave

Tatsuya Fukuyama, Hiroyuki Ebata, Akihisa Yamamoto, Ryo Ienaga, Yohei Kondo, Motomu Tanaka, Satoru Kidoaki, Kazuhiro Aoki and Yusuke T. Maeda*

