

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.

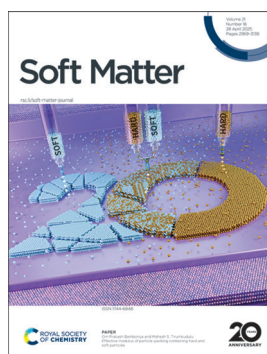
IN THIS ISSUE

ISSN 1744-6848 CODEN SMOABF 21(16) 2969-3138 (2025)



Cover

See Siddharth Deshpande *et al.*, pp. 2977–2985. Image reproduced by permission of Pim Vink from *Soft Matter*, 2025, 21, 2977.



Inside cover

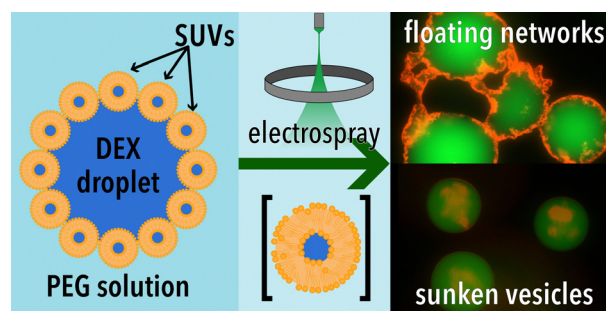
See Om Prakash Bamboriya and Mahesh S. Tirumkudulu, pp. 2986–2993. Image reproduced by permission of Mahesh S. Tirumkudulu from *Soft Matter*, 2025, 21, 2986.

PAPERS

2977

Towards electro spray-assisted production of lipid-based synthetic cell assemblies

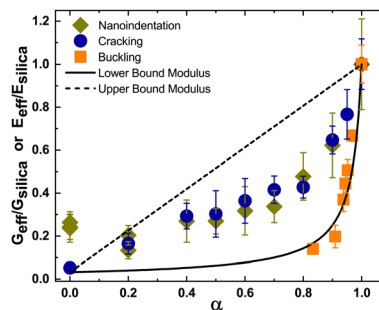
Pim Vink, Lawrence W. Honaker and Siddharth Deshpande*



2986

Effective modulus of particle-packing containing hard and soft particles

Om Prakash Bamboriya and Mahesh S. Tirumkudulu*



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



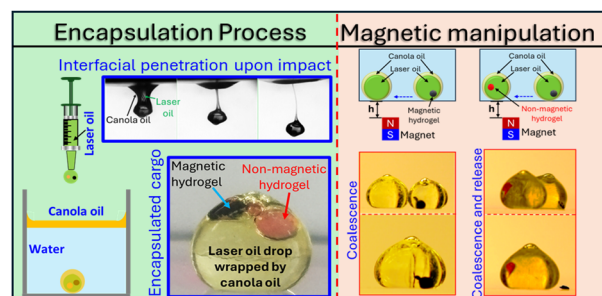
**SAVE
10%**



2994

Magnetic manipulation of liquid-wrapped hydrogels

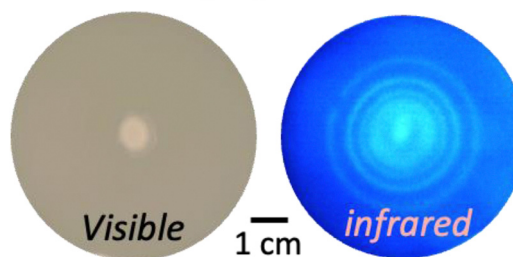
Utsab Banerjee, Sirshendu Misra and Sushanta K. Mitra*



3005

Chemical reactions with Liesegang rings: generation of non-permanent thermal patterns

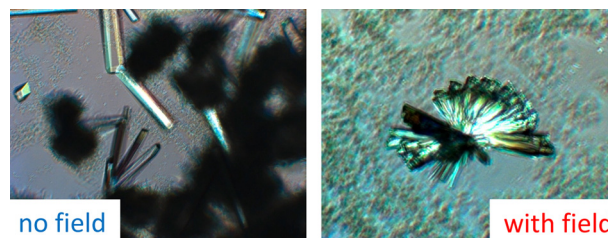
Hatice Ari, Rana Uzunlar, Elif Sila Akbulut, Istvan Lagzi and Bilge Baytekin*

Patterns of infrared radiation

3012

Electric field-induced control of protein crystal morphology

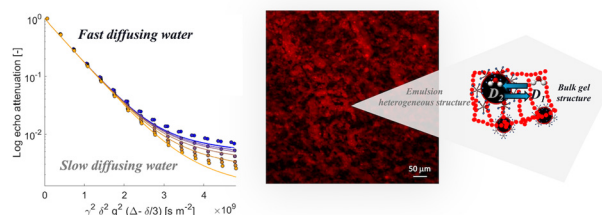
Debes Ray, Mahnoush Madani, Jan K.G. Dhont, Florian Platten* and Kyongok Kang*



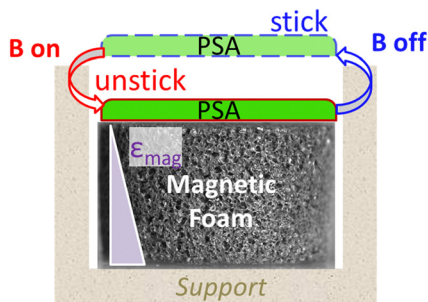
3022

Probing molecular motion and microstructure into emulsion gels by PFG NMR and advanced microscopy for microstructural observations

Carmine D'Agostino,* Valentina Preziosi,* Carmine Schiavone, Maria Vittoria Maiorino, Giuseppina Caiazza and Stefano Guido



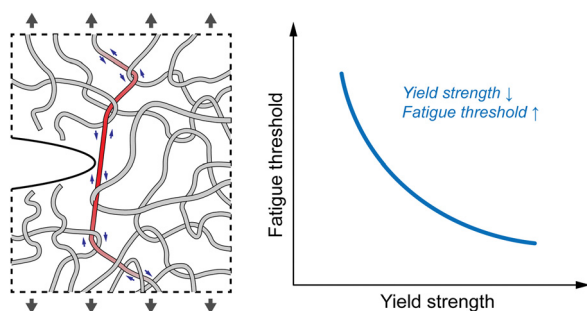
3030



“Magnetic marshmallows” for soft robotics: magneto-mechanical characterization and application in switchable adhesion structures

Maxime Bès, Samuel Lamont, Azadeh Dufour-Lamartinié, Jean-Claude Mancer, Ludovic Olanier, Jérôme Robert, Franck Vernerey and Artem Kovalenko*

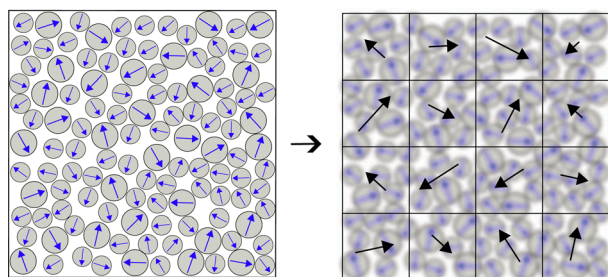
3040



How does a polymer glass resist fatigue crack growth?

Christine Heera Ahn, Zheqi Chen, Xianyang Bao and Zhigang Suo*

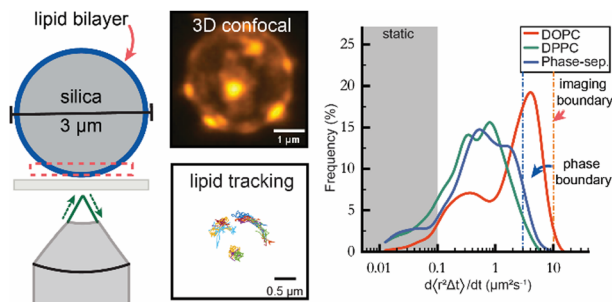
3047



An elastoplastic model approach for the relaxation dynamics of active glasses

Tanmoy Ghosh,* Peter Sollich and Saroj Kumar Nandi

3058



Single-lipid tracking reveals heterogeneities in the nanoscale dynamics of colloid-supported lipid bilayers

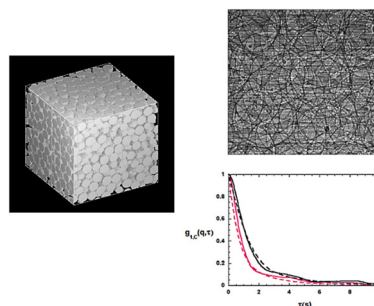
Levena Gascoigne, Roderick P. Tas,* Pepijn G. Moerman and Ilja K. Voets*



3067

Probing particle dynamics in a fully opaque porous network using X-ray differential dynamic radiography (XDDR)

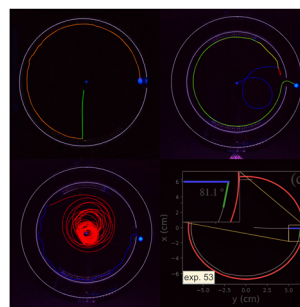
P. Levitz,* L. Michot, N. Malikova, M. Scheel and T. Weitkamp



3080

Narrow escape for active camphor particles: facilitated escape and aging

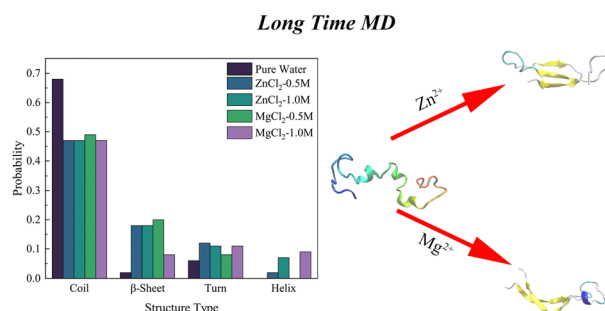
Raúl Salgado-García,* Orlando Díaz-Hernández, Andrés Castañeda-Jonapá, Gustavo Morales-Padrón, Alberto Estudillo, Thomas Buhse and José-Manuel Cruz*



3092

Molecular mechanism of the effect of ZnCl₂ and MgCl₂ solution on the conformation of the tau_{267–312} monomer

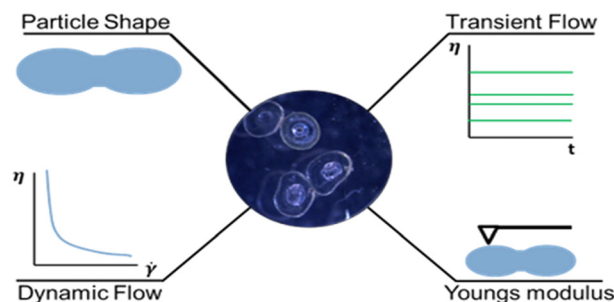
Yipeng Chen, Jiantao Yin, Yanhui Liu, Yue Huang, Wenjun Zong and Rongri Tan*



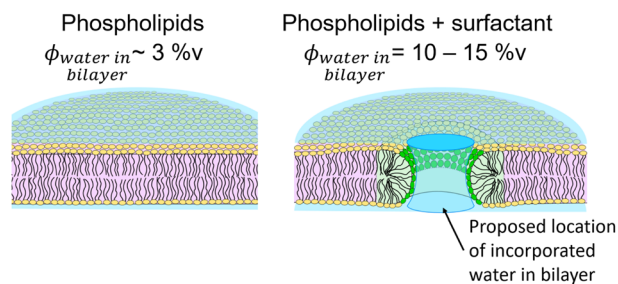
3101

Development and characterization of a Dextran/CaCl₂-based blood-mimicking fluid: a comparative study of rheological and mechanical properties in artificial erythrocyte suspensions

Gesine Hentschel,* Katharina Doll-Nikutta, Marc Mueller, Philipp Berg and Birgit Glasmacher



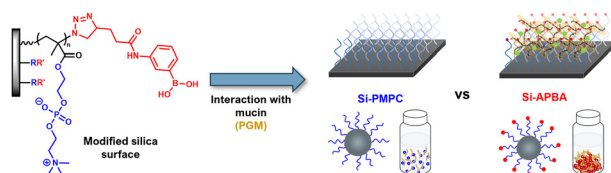
3117



Increased water presence in phospholipid fluid bilayers upon addition of lysolipids

Fernanda Alvarado Galindo*, Joachim Venzmer, Najet Mahmoudi, Michael Gradzielski and Ingo Hoffmann*

3125



Boronic acid-mediated mucin/surface interactions of zwitterionic polymer brushes

Karla E. Cureno Hernandez, Jeonghun Lee, Sunghoon Kim, Zach Cartwright and Margarita Herrera-Alonso*

