

# Soft Matter

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## IN THIS ISSUE

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### Cover

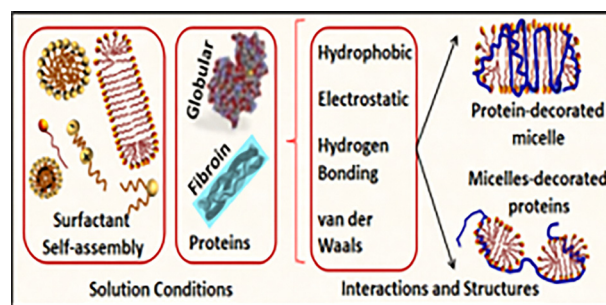
See Atsuomi Shundo, Keiji Tanaka *et al.*, pp. 5005–5013. Image reproduced by permission of Atsuomi Shundo from *Soft Matter*, 2025, 21, 5005.

## REVIEW

4979

### Surfactant-driven modifications in protein structure

Sugam Kumar, Debasish Saha, Debes Ray and Vinod K. Aswal\*

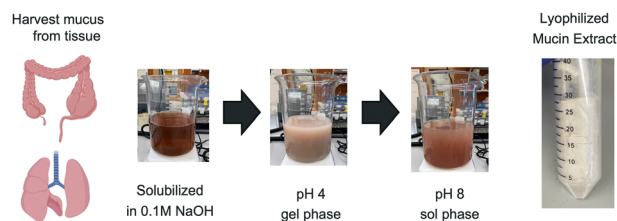


## COMMUNICATION

4999

### Microrheology of gel-forming airway mucins isolated from porcine trachea

Elizabeth M. Engle, Sydney Yang, Allison Boboltz, Sahana Kumar, Alexa Stern and Gregg A. Duncan\*



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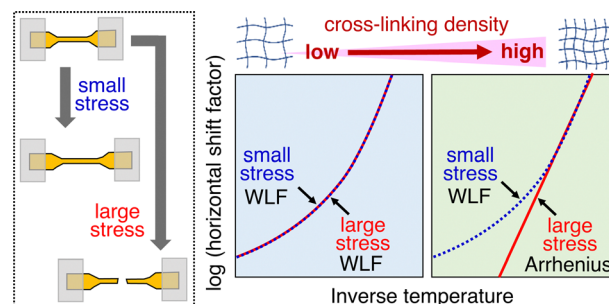
**SAVE  
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5005

### Impact of cross-linking on the time–temperature superposition of creep rupture in epoxy resins

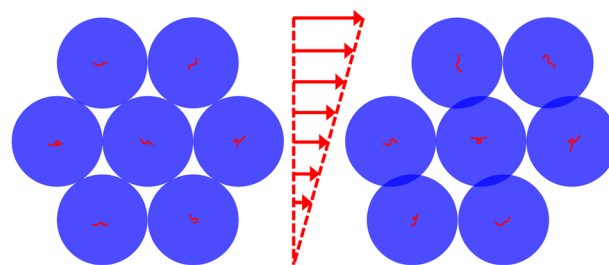
Atsuomi Shundo,\* Mika Aoki, Satoru Yamamoto and Keiji Tanaka\*



5014

### Response of a polyelectrolyte under oscillatory shear of low frequency

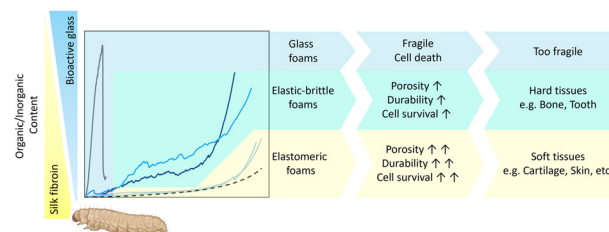
Hao Peng, Chao Zhou, Wu Zhou, Jingfa Yang and Jiang Zhao\*



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### Interfacing bioactive glass with silk fibroin: a soft matter approach to tunable mechanics and enhanced biocompatibility

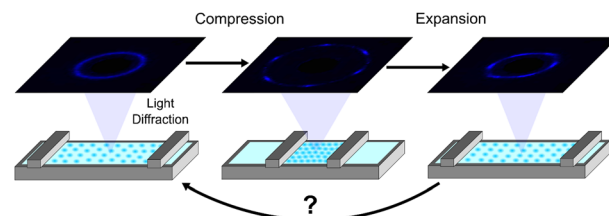
Apipon Methachittipan, Ayuth Vejpongsa, Juthatip Manissorn, Duangruedee Khwannimit, Thanaphum Wannalobon, Chayanon Ngambenjawang, Siriporn Damrongsakkul, Kittikhun Wangkanont, Khaow Tonsomboon, Chonlatap Usaku and Peerapat Thongnuek\*



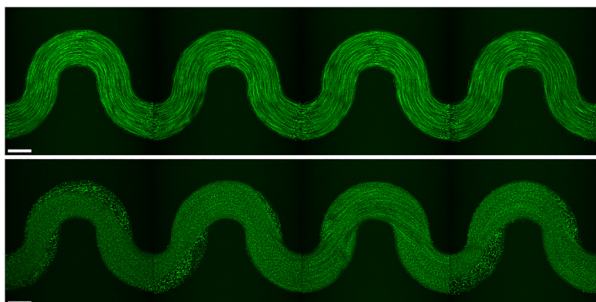
5030

### Compression, expansion and relaxation of soft colloidal monolayers at the air/water interface

Vahan Abgarjan, Keumkyung Kuk, Jonathan Linus Samuel Garthe, Tillmann Lukas Wigger and Matthias Karg\*



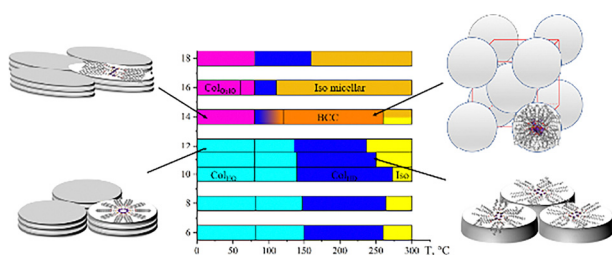
5045



### Elastic instability of wormlike micelle solution flow in serpentine channels

Emily Y. Chen and Sujit S. Datta\*

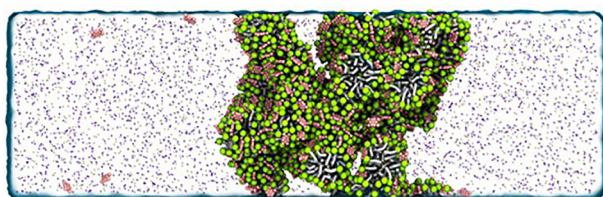
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### Self-assembling supramolecular columnar organogels formed by wedge shaped cesium 3,4,5-alkyloxy benzene sulfonates

E. Song, U. Beginn, A. A. Stupnikov, A. V. Bakirov, M. A. Shcherbina,\* M. Möller and S. N. Chvalun

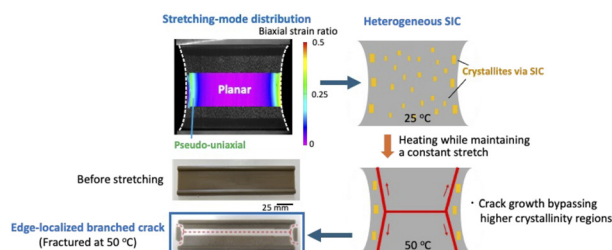
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### Thermodynamic anatomy of micelle-small molecule coacervation

Fengxiang Zhou, Minyue Lu and Lingxiang Jiang\*

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### Pronounced effect of strain biaxiality on high-temperature behavior of strain-crystallizing elastomers

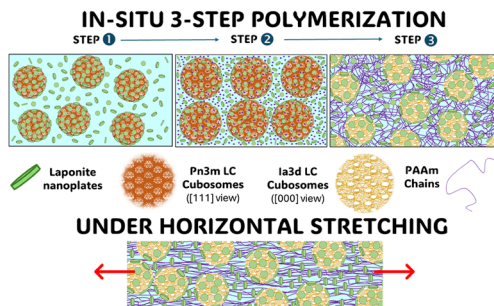
Ryosuke Osumi, Thanh-Tam Mai, Katsuhiko Tsunoda and Kenji Urayama\*



5089

### Design of ultra-stretchable physical hydrogels cross-linked by cubosomes: structural changes revealed by SANS during *in situ* polymerisation and mechanical deformation

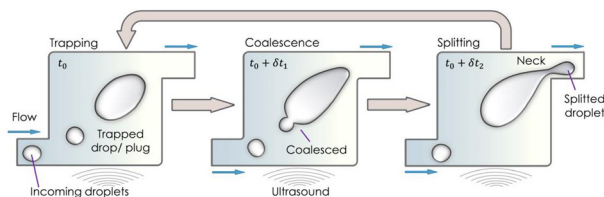
Filippo Ferdeghini, Clémence Le Coeur, Zineb Guennouni, François Boué, Fabrice Cousin and François Muller\*



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### Trapping, coalescence, and splitting of drops in an ultrasound-actuated microcavity

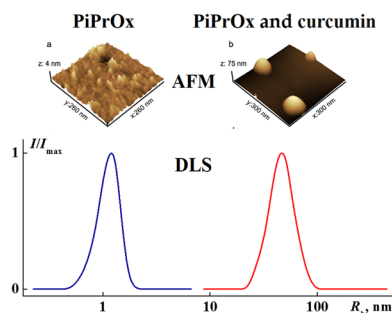
Lokesh Malik, Subhas Nandy, Niladri Sekhar Satpathi, Debasish Ghosh, Thomas Laurell and Ashis Kumar Sen\*



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### Poly-2-isopropyl-2-oxazoline: conformational characteristics, LCST behavior and complexation with curcumin

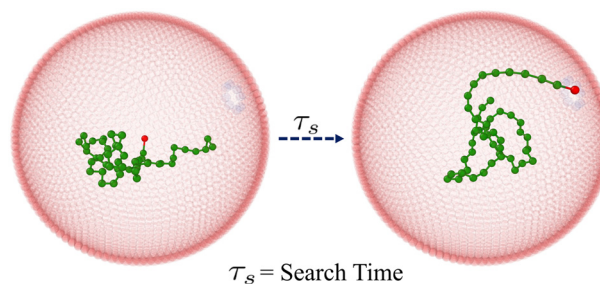
T. Yu. Kirila,\* N. D. Kozina, M. A. Golovina, M. P. Sokolova, A. V. Tenkovtsev and A. P. Filippov



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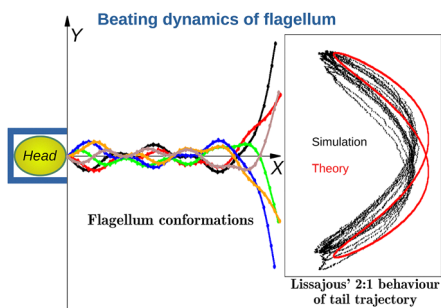
### Target search of a polymer with an active head

Rajiblochan Sahoo, Arvind Saini and Rajarshi Chakrabarti\*



## PAPERS

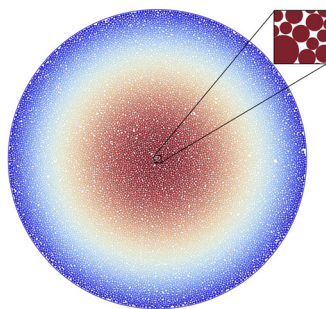
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### Active-like dynamics of worm-like chains driven by an external traveling-wave force

Fabio Cecconi,\* Andrea Puglisi, Massimiliano Viale and Dario Lucente

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### Continuum mechanics of differential growth in disordered granular matter

Noemie S. Livne, Tuhin Samanta, Amit Schiller, Itamar Procaccia and Michael Moshe\*

## CORRECTION

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### Correction: Evolution of shear zones in granular packings under pressure

Mahnoush Madani, Maniya Maleki, János Török and M. Reza Shaebani\*

