

# Soft Matter

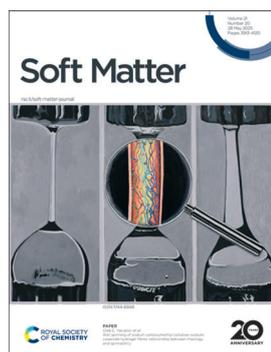
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## IN THIS ISSUE

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### Cover

See Gleb E. Yakubov *et al.*, pp. 3946–3956. Image reproduced by permission of Prof. Gleb Yakubov, Ms Lathika Vaniyan and Mr Julien Masson from *Soft Matter*, 2025, 21, 3946.



### Inside cover

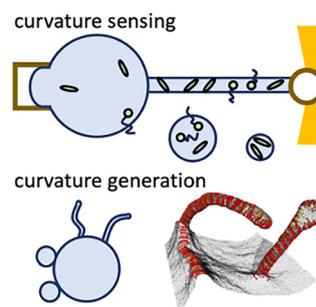
See Mingfeng Wei, Lixin Wu *et al.*, pp. 3941–3945. Image reproduced by permission of Lixin Wu from *Soft Matter*, 2025, 21, 3941.

## REVIEW

3922

### Curvature-sensing and generation by membrane proteins: a review

Hiroshi Noguchi

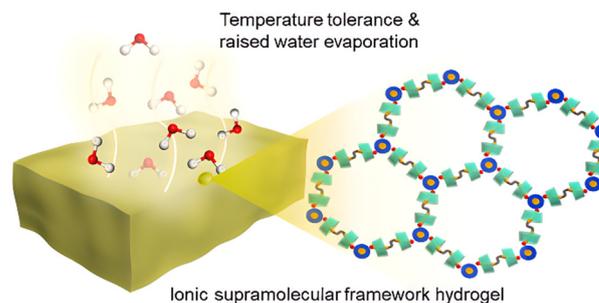


## COMMUNICATION

3941

### Cluster-directed ionic framework supramolecular hydrogel with high-temperature tolerability and enhanced water evaporation

Jiaxu Wang, Liang Yue, Mingfeng Wei,\* Bao Li and Lixin Wu\*



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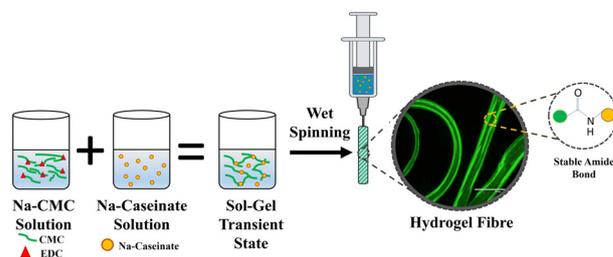
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3946

### Wet spinning of sodium carboxymethyl cellulose–sodium caseinate hydrogel fibres: relationship between rheology and spinnability

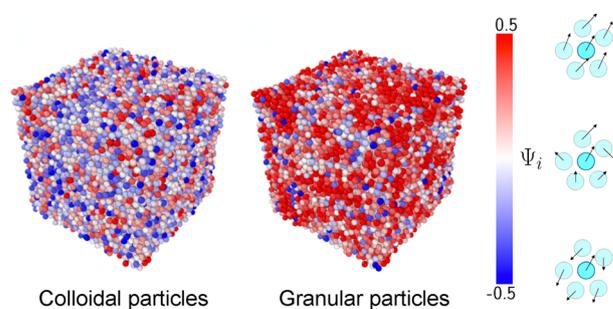
Lathika Vaniyan, Pallab Kumar Borah, Galina E. Pavlovskaya, Nick Terrill, Joshua E. S. J. Reid, Michael Boehm, Philippe Prochasson, Reed A. Nicholson, Stefan Baier and Gleb E. Yakubov\*



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### Enhanced collective vibrations in granular materials

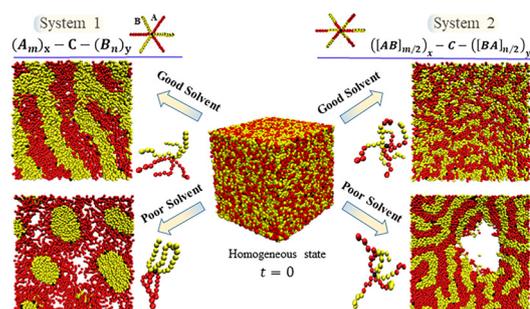
Shihori Koyama,\* Norihiro Oyama, Hideyuki Mizuno and Atsushi Ikeda



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### Self-assembly kinetics of miktoarm star polymers in diverse solvent environments: insights from dissipative particle dynamics simulations

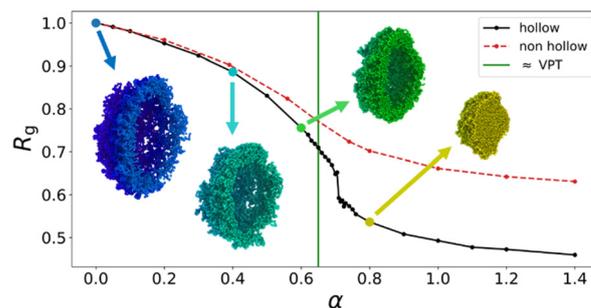
Devendra Kumar Verma and Awaneesh Singh\*



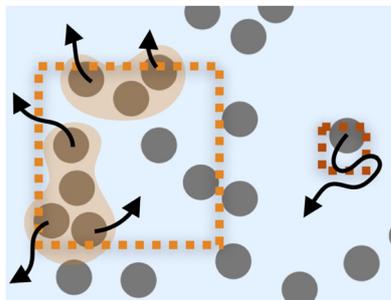
3979

### Numerical insights on the volume phase transition of thermo-responsive hollow microgels

Leah Rank and Emanuela Zaccarelli\*



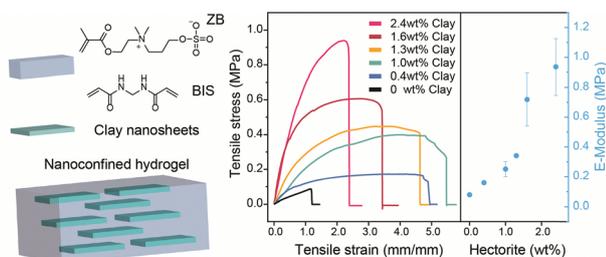
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### Measuring collective diffusion coefficients by counting particles in boxes

Adam Carter, Eleanor K. R. Mackay, Brennan Sprinkle, Alice L. Thorneywork and Sophie Marbach\*

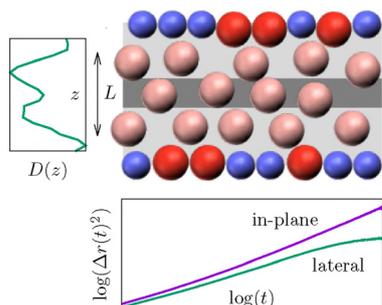
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### Tunable mechanical properties and phase transitions in nanoconfined polyzwitterionic UCST hydrogels

Sebastian Loescher, Chen Liang, Remi Plamont, Josef Breu,\* Olli Ikkala\* and Hang Zhang\*

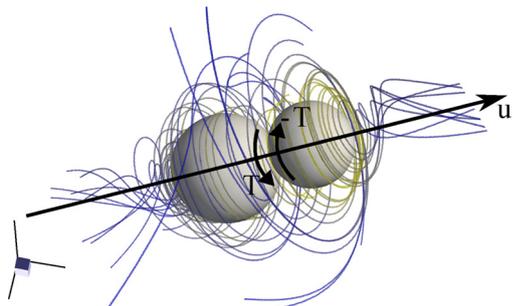
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### Inhomogeneous diffusion in confined colloidal suspensions

Gerhard Jung,\* Alejandro Villada-Balbuena and Thomas Franosch

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### Inertia-driven propulsion of asymmetric spinner-dimers at moderate Reynolds numbers

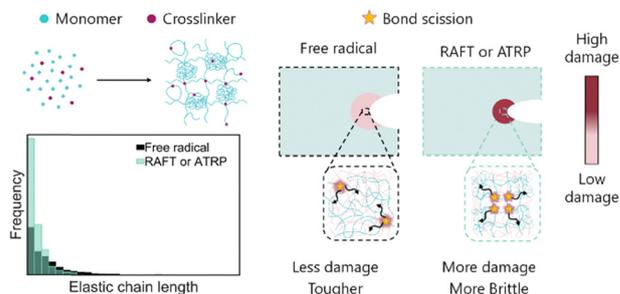
Zaiyi Shen,\* Dongfang Fu and Juho S. Lintuvuori\*



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## Designing soft and tough multiple-network elastomers: impact of reversible radical deactivation on filler network architecture and fracture toughness

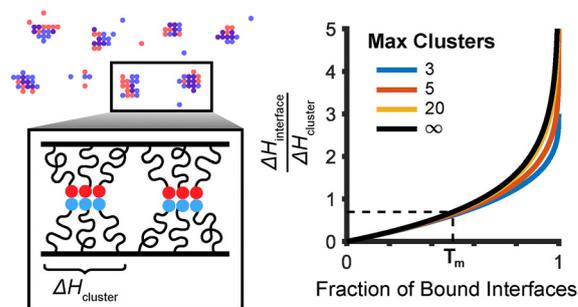
Aaliyah Z. Dookhith, Zidan Zhang, Venkat Ganesan and Gabriel E. Sanoja\*



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## Modeling the role of supramolecular clustering in multivalent assembly

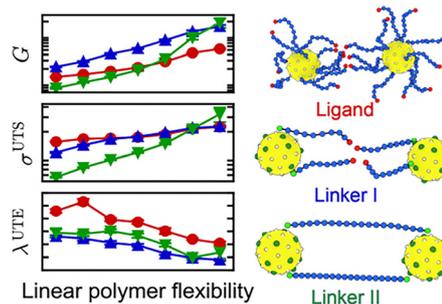
Nicholas Sbalbi, Artem Petrov, Jacob Sass, Matthew Ye, Alfredo Alexander-Katz and Robert J. Macfarlane\*



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## Effects of ligand vs. linker on phase behavior and mechanical properties of nanoparticle gels

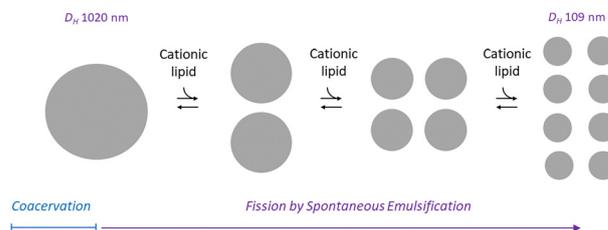
Qizan Chen, Dinesh Sundaravadivelu Devarajan, Arash Nikoubashman, Michael P. Howard\* and Jeetain Mittal\*



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## Formation of RNA lipid nanoparticles: an equilibrium process with a liquid intermediate stage

Jessica Boutros, Ziyue Li, Leah Wright and Robert J. Falconer\*



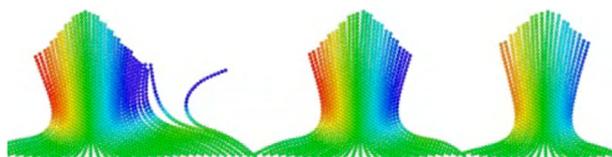
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### Leveraging metal oxide-fenugreek hydrogel nanocomposites for enhanced structural and biological properties

Debolina Ghosh, Deepmoni Deka and Gopal Das\*

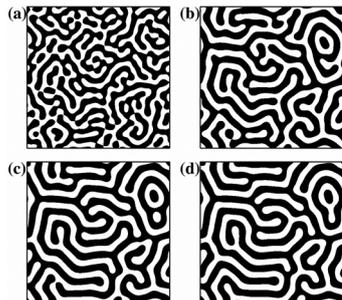
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### Kinetically arrested periodic clusters in active filament arrays

Sonu Kharayat, Prashant K. Purohit, L. Mahadevan, Arvind Gopinath\* and Raghunath Chelakkot\*

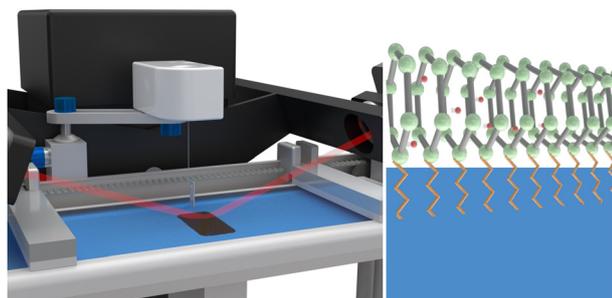
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### Phase separation in active binary mixtures with chemical reaction

Sayantan Mondal and Prasenjit Das\*

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### Electronic interactions of a quaterthiophene-based surfactant at the liquid/gas interface

Changwoo Bae, Kamatham Narayanaswamy, Hisham Idriss, Ludivine Poyac, Indraneel Sen, Sébastien Richeter, Sébastien Clément, Anne-Laure Bianco,\* Samuel Albert\* and Oriane Bonhomme



## CORRECTION

4117

**Correction: Wet spinning of sodium carboxymethyl cellulose–sodium caseinate hydrogel fibres: relationship between rheology and spinnability**

Lathika Vaniyan, Pallab Kumar Borah, Galina E. Pavlovskaya, Nick Terrill, Joshua E. S. J. Reid, Michael Boehm, Philippe Prochasson, Reed A. Nicholson, Stefan Baier and Gleb E. Yakubov\*

