

# Soft Matter

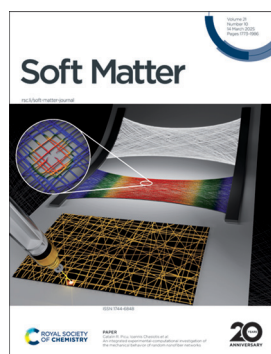
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## IN THIS ISSUE

ISSN 1744-6848 CODEN SMOABF 21(10) 1773-1986 (2025)



### Cover

See Catalin R. Picu, Ioannis Chasiotis *et al.*, pp. 1841–1848. Image reproduced by permission of Ioannis Chasiotis *et al.* from *Soft Matter*, 2025, 21, 1841.



### Inside cover

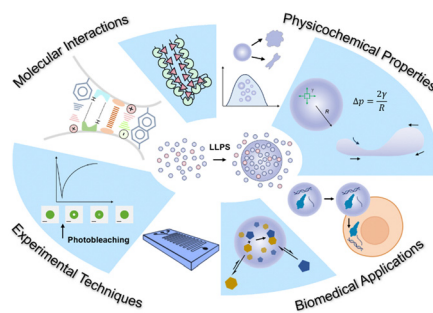
See Mohamed Laradji *et al.*, pp. 1849–1859. Image reproduced by permission of Mohamed Laradji from *Soft Matter*, 2025, 21, 1849.

## REVIEWS

1781

### Peptide-mediated liquid–liquid phase separation and biomolecular condensates

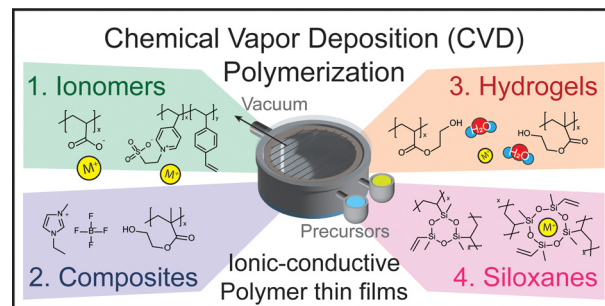
Guangle Li, Chengqian Yuan\* and Xuehai Yan\*



1813

### Ion-conducting polymer thin films via chemical vapor deposition polymerization

Kwang-Won Park, Christina H Yu, Shuaicheng Fu and Rong Yang\*



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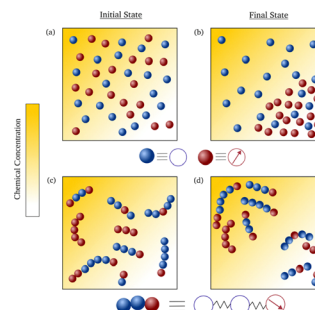


## COMMUNICATION

1835

### Transport of partially active polymers in chemical gradients

Shashank Ravichandir, Bhavesh Valecha, Pietro Luigi Muzzeddu, Jens-Uwe Sommer\* and Abhinav Sharma\*

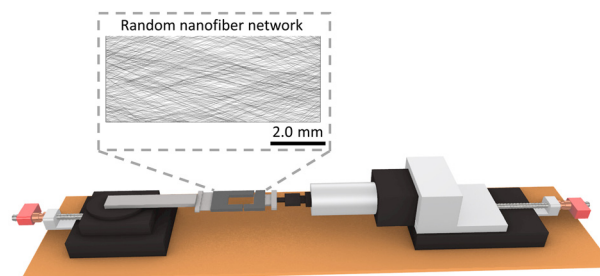


## PAPERS

1841

### An integrated experimental-computational investigation of the mechanical behavior of random nanofiber networks

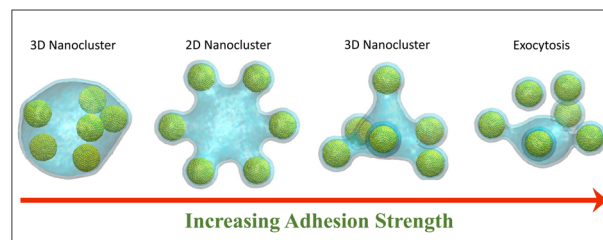
HyeongJu Lee, Mithun K. Dey, Kathiresan Karunakaran, Catalin R. Picu\* and Ioannis Chasiotis\*



1849

### Nanostar self-assemblies of spherical nanoparticles inside lipid vesicles

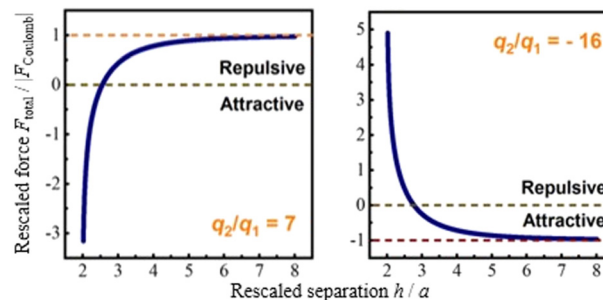
Yu Zhu, Abash Sharma, Eric J. Spangler and Mohamed Laradji\*



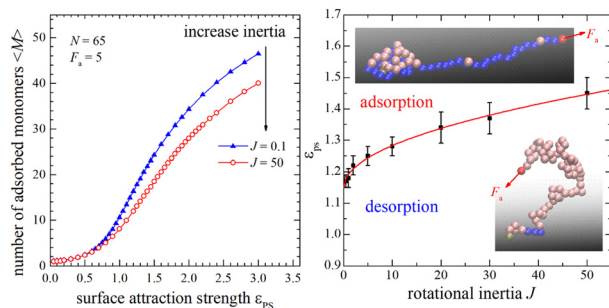
1860

### Mechanisms of electrostatic interactions between two charged dielectric spheres inside a polarizable medium: an effective-dipole analysis

Yanyu Duan, Zecheng Gan\* and Ho-Kei Chan\*



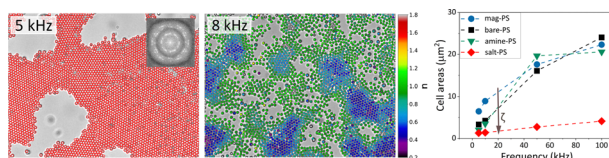
1873



## Knotting and adsorption of end-grafted active polymers

Yi-Fan Shen and Meng-Bo Luo\*

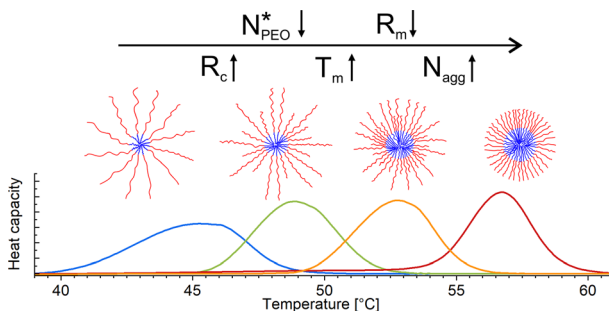
1884



## Structure, dynamics and phase transitions in electric field assembled colloidal crystals and glasses

Indira Barros, Sayanth Ramachandran and Indrani Chakraborty\*

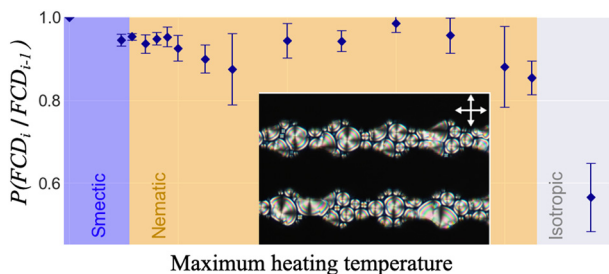
1895



## Modulating melting points in micellar cores: influence of the corona chain length on the core confinement in binary mixed block copolymer micelles

Szymon Mikołaj Szostak, Nico König, Lutz Willner and Reidar Lund\*

1907



## Quantifying memory: detection of focal conic domain rearrangement across a phase transition

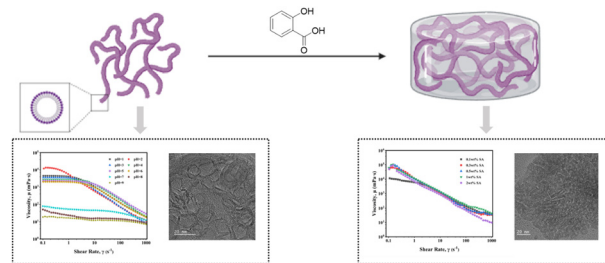
Sean Hare, Alexander de la Vega and Francesca Serra\*



1915

### Salicylic acid induces the formation of supramolecular antimicrobial hydrogels from worm-like micelles

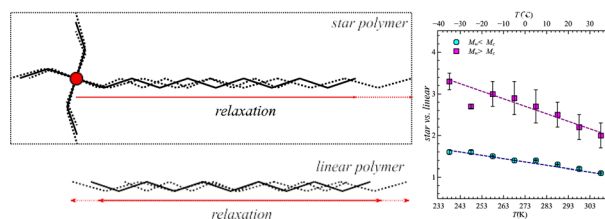
Dongfang Liu,\* Liqin Huang, Yu Jing, Tingmei Huang, Di Zhang, Dong Jiang, Yaxin Zhao and Yuanyuan Zhang\*



1925

### Polymer dynamics at low molecular weight of poly(butylene oxide) star polymers

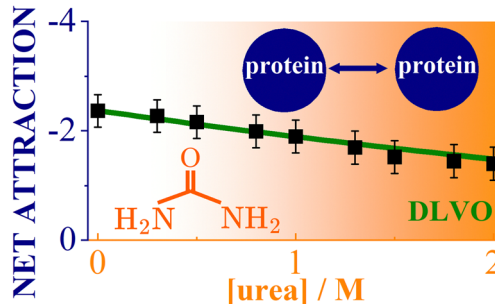
Karin J. Bichler,\* Bruno Jakobi and Gerald J. Schneider\*



1937

### Urea and salt induced modulation of protein interactions: implications for crystallization and liquid-liquid phase separation

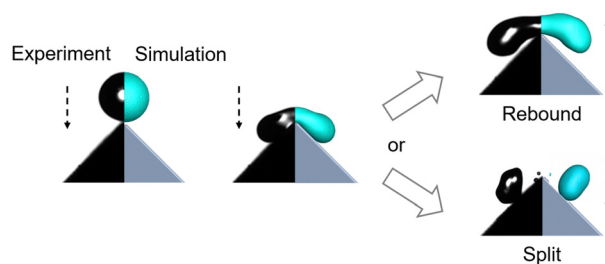
M. Madani, T. Hamacher and F. Platten\*



1949

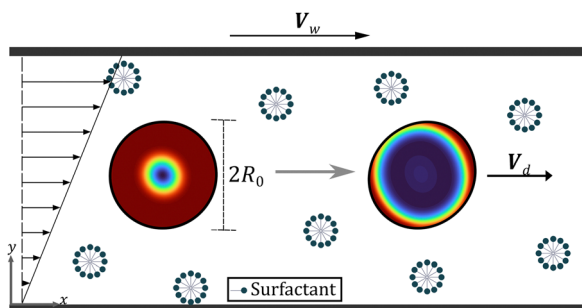
### Drop splitting on hydrophobic wedge-shaped tips after central impact: effect of sharpness and wetting properties

Xiaoteng Zhou, Diego Diaz, Zhongyuan Ni, Sajjad Shumaly, Jie Liu, Michael Kappl\* and Hans-Jürgen Butt\*



## PAPERS

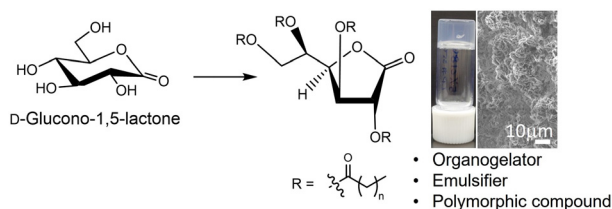
1957



### Shear-induced dynamics of an active Belousov–Zhabotinsky droplet

Shreyas A. Shenoy, KVS Chaithanya and Pratyush Dayal\*

1970



### Synthesis of D-glucono-1,4-lactones modified with linear saturated fatty acids as novel low molecular-weight organogelators and evaluation of their physical properties

Shiro Komba

## CORRECTION

1984

### Correction: Engineering poly(dehydroalanine)-based gels *via* droplet-based microfluidics: from bulk to microspheres

Hannah F. Mathews, Tolga Çeper, Tobias Speen, Céline Bastard, Selin Bulut, Maria I. Pieper, Felix H. Schacher, Laura De Laporte and Andrij Pich\*

