

# Soft Matter

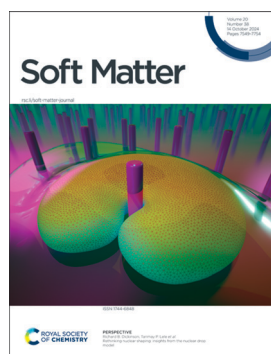
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### Cover

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### Inside cover

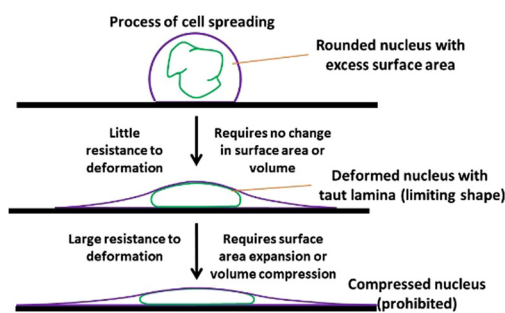
See Takeshi Ueki *et al.*, pp. 7566–7572. Image reproduced by permission of Takeshi Ueki from *Soft Matter*, 2024, 20, 7566.

## PERSPECTIVE

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### Rethinking nuclear shaping: insights from the nuclear drop model

Richard B. Dickinson,\* Samere Abolghasemzade and Tanmay P. Lele\*

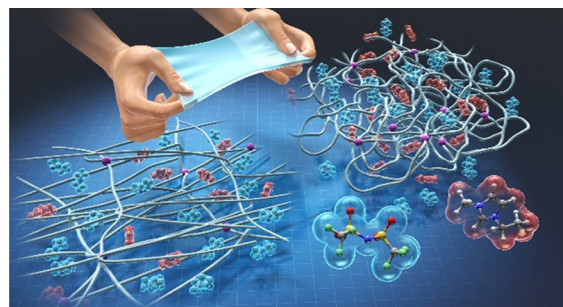


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### Straightforward preparation of a tough and stretchable ion gel

Aya Saruwatari, Yuji Kamiyama, Akifumi Kawamura, Takashi Miyata, Ryota Tamate and Takeshi Ueki\*



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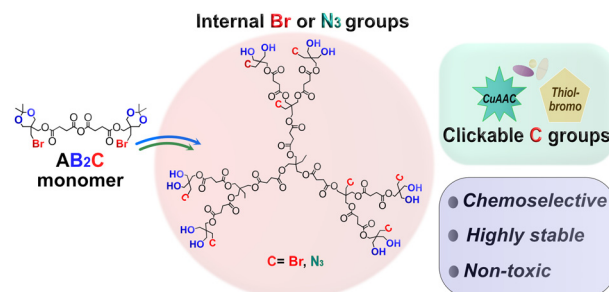


## COMMUNICATIONS

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### Synthesis, evaluation and modification of heterofunctional polyester dendrimers with internally queued bromide groups

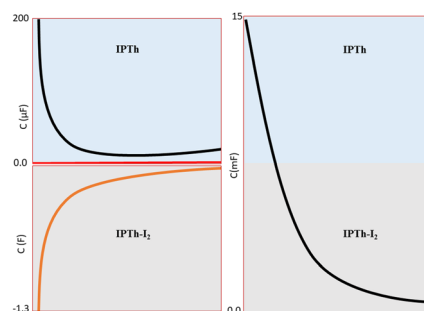
Arunika Singh, Daniel J. Hutchinson, Maria Isabel Montañez, Natalia Sanz del Olmo\* and Michael Malkoch\*



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### Negative capacitance based on isomeric polythiophene in action

Devendra Kumar, Rudramani Tiwari, Dipendra Kumar Verma, Shashikant Yadav, Km. Parwati, Rajshree Rai, Pubali Adhikary and S. Krishnamoorthi\*

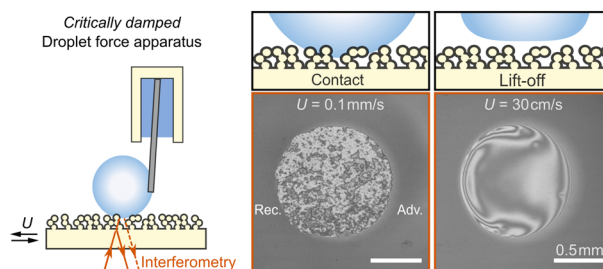


## PAPERS

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### Probing the physical origins of droplet friction using a critically damped cantilever

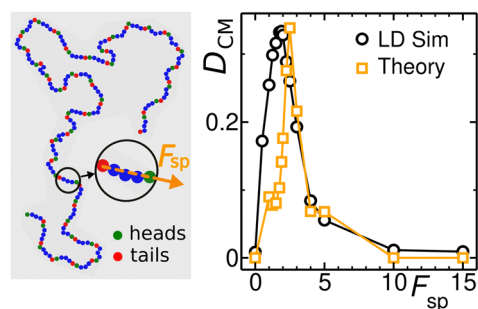
Sankara Arunachalam, Marcus Lin and Dan Daniel\*



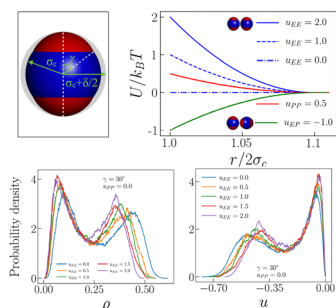
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### Structural dynamics and optimal transport of an active polymer

Hamidreza Khalilian,\* Fernando Peruani and Jalal Sarabadani\*



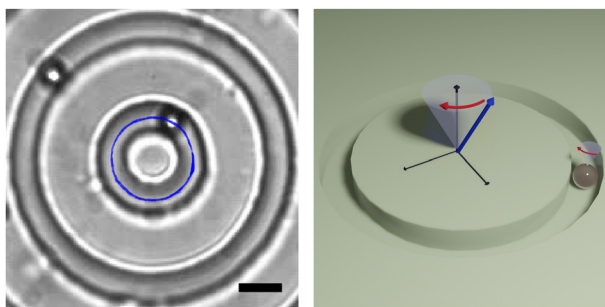
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### Features of heterogeneously charged systems at their liquid–liquid critical point

Daniele Notarmuzi\* and Emanuela Bianchi\*

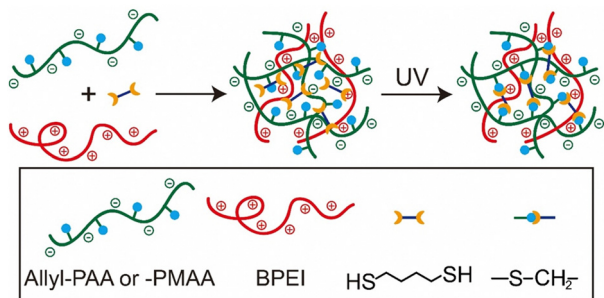
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### Curvature induces and enhances transport of spinning colloids through narrow channels

Eric Cereceda-López, Marco De Corato, Ignacio Pagonabarraga, Fanlong Meng, Pietro Tierno\* and Antonio Ortiz-Ambriz\*

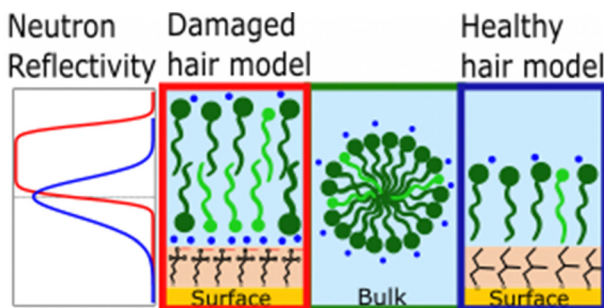
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### Covalently crosslinked coacervates: immobilization and stabilization of proteins with enhanced enzymatic activity

Mengmeng Zhao, Szu-Hao Cho, Xinchu Wu, Jingyi Mao, Bryan D. Vogt\* and Nicole S. Zacharia\*

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### Mimicking the hair surface for neutron reflectometry

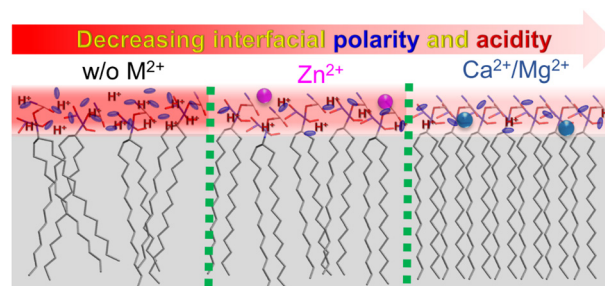
Serena Cozzolino, Philipp Gutfreund, Alexei Vorobiev, Anton Devishvili, Andrew Greaves, Andrew Nelson, Nageshwar Yepuri, Gustavo S. Luengo\* and Mark W. Rutland\*



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### Determination of divalent metal ion-regulated proton concentration and polarity at the interface of anionic phospholipid membranes

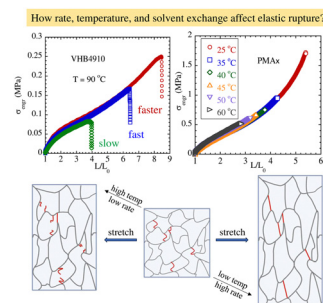
Pratima Mandal, Snigdha Roy, Manisha Karmakar, Sushil Ranjan Bhatta, Chandi Charan Ghosh, Arunabha Thakur and Partha Pratim Parui\*



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### How do stretch rate, temperature, and solvent exchange affect elastic network rupture?

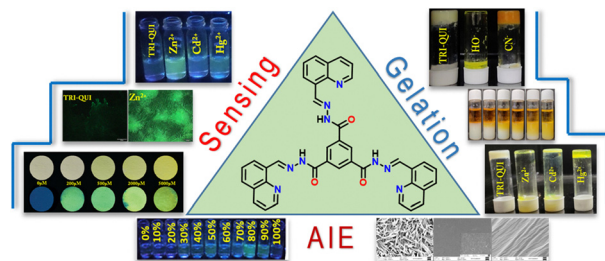
Asal Y Siavoshani, Zehao Fan, Muxuan Yang, Shan Liu, Ming-Chi Wang, Jiabin Liu, Weinan Xu, Junpeng Wang, Shaoting Lin and Shi-Qing Wang\*



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### Exploring the gelation and AIE properties of a tripodal acylhydrazone-based probe: turn-on Zn(II) sensing in HEPES buffer

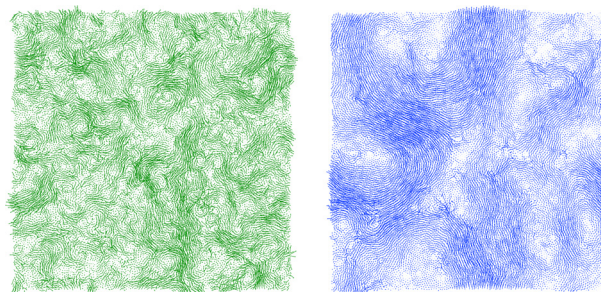
Rubi Moral and Gopal Das\*



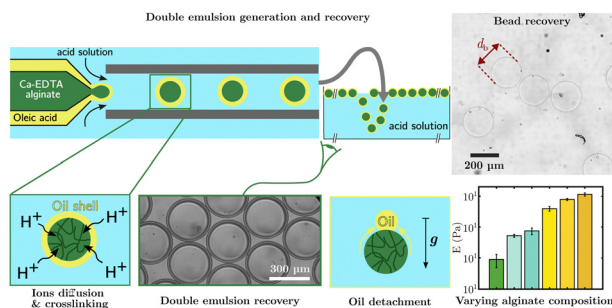
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### Structural fluctuations in active glasses

Masaki Yoshida,\* Hideyuki Mizuno and Atsushi Ikeda



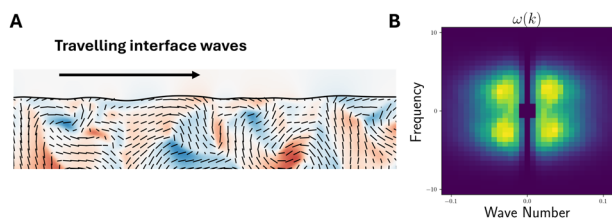
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Jean Cappello,\* Jonas Mignet, Adrien Dewandre, Lucie Ergot, Sylvain Gabriele, Jean Septavaux and Benoit Scheid

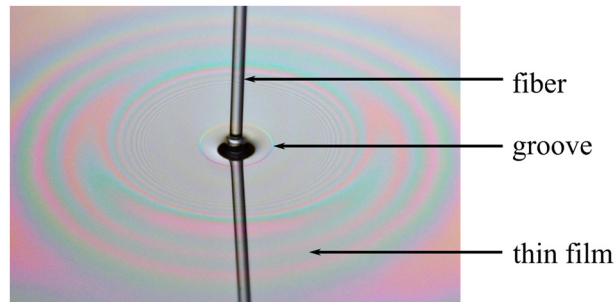
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### Travelling waves at the surface of active liquid crystals

Paarth Gulati,\* Fernando Caballero, Itamar Kolvin, Zhihong You and M. Cristina Marchetti

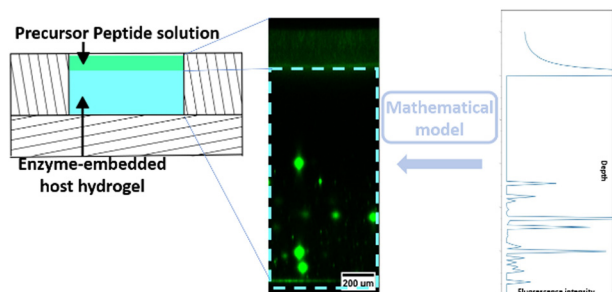
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### Hydrodynamic thinning of a coating film induced by a small solid defect: evidence of a time–minimum thickness

Alice Etienne-Simonetti, Frédéric Restagno, Isabelle Cantat and Emmanuelle Rio

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### Model to rationalize and predict the formation of organic patterns originating from an enzyme-assisted self-assembly Liesegang-like process of peptides in a host hydrogel

Jean-Yves Runser, Shahaji H. More, Fatima Fneich, Timothée Boutfol, Pierre Weiss, Marc Schmutz, Bernard Senger, Loïc Jierry\* and Pierre Schaaf\*



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## Phase behavior of polymer dispersed liquid crystals, comparison between mean-field theory, and coarse-grained molecular dynamics simulations

William S. Fall, Hima Bindu Kolli, Biswaroop Mukherjee and Buddhapriya Chakrabarti\*

