

# Soft Matter

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## IN THIS ISSUE

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### Cover

See Farhang Radjai *et al.*, pp. 5296–5313. Image reproduced by permission of Farhang Radjai from *Soft Matter*, 2024, 20, 5296.



### Inside cover

See Rui Xiao, Huaping Wu *et al.*, pp. 5314–5323. Image reproduced by permission of Ye Tian from *Soft Matter*, 2024, 20, 5314.

## EDITORIAL

5271

### Introduction to Soft Robotics

Anand Kumar Mishra, Zhihong Nie,\* Jamie Paik and Robert Shepherd\*

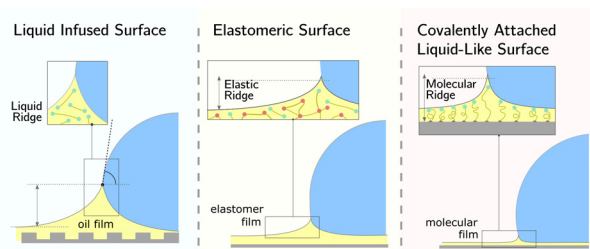


## REVIEW

5273

### Wetting on silicone surfaces

Lukas Hauer,\* Abhinav Naga, Rodrique G. M. Badr, Jonathan T. Pham, William S. Y. Wong and Doris Vollmer



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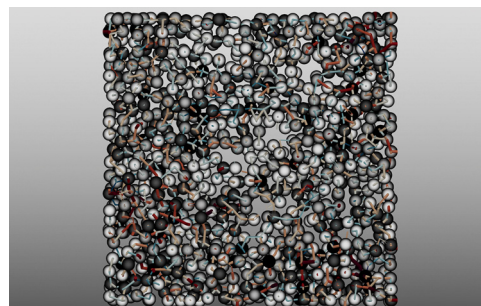
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5296

### Dynamic compaction of cohesive granular materials: scaling behavior and bonding structures

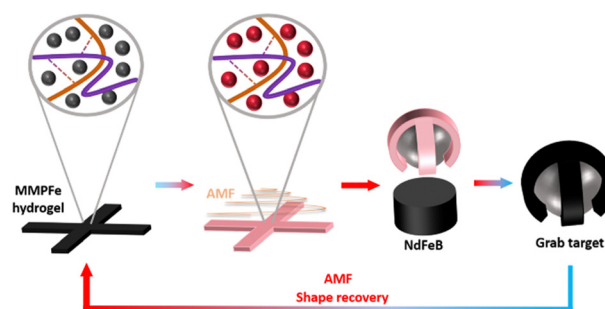
Max Sonzogni, Jean-Mathieu Vanson, Katerina Ioannidou, Yvan Reynier, Sébastien Martinet and Farhang Radjai\*



5314

### Magnetic-field induced shape memory hydrogels for deformable actuators

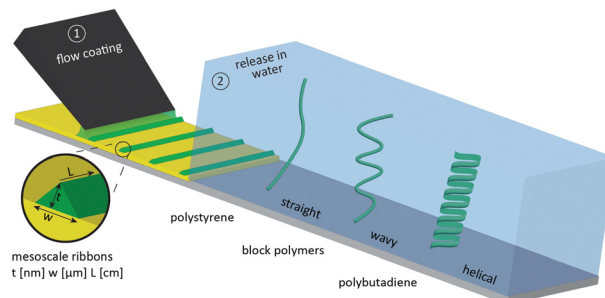
Ye Tian, Zhirui Xu, Hao Qi, Xiaojun Lu, Ting Jiang, Liqian Wang, Guang Zhang, Rui Xiao\* and Huaping Wu\*



5324

### Fabricating mesoscale polymer ribbons with tunable mechanical properties via evaporative deposition and dewetting

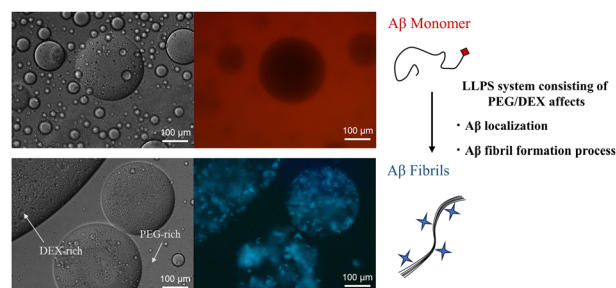
Cornelia Meissner, M. Saad Bhamla, Todd Emrick\* and Alfred J. Crosby\*



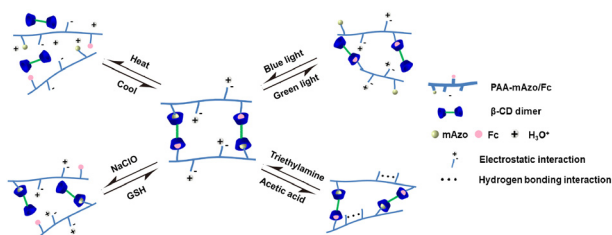
5331

### Liquid–liquid phase separation induced by crowding condition affects amyloid- $\beta$ aggregation mechanism

Ryuki Kobayashi and Hideki Nabika\*



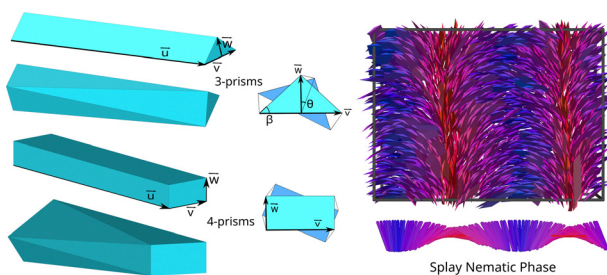
5343



### A quadruple-stimuli responsive supramolecular hydrogel constructed from a poly(acrylic acid) derivative and $\beta$ -cyclodextrin dimer

Hongchao Yan, Juan Wang, Xichan He, Dongsheng Yu, Yuan Qiu,\* Yonggui Liao\* and Xiaolin Xie

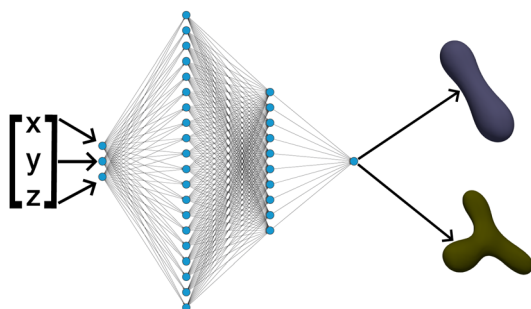
5351



### The effect of particle geometry and initial configuration on the phase behavior of twisted convex $n$ -prisms

Poshika Gandhi\* and Anja Kuhnhold

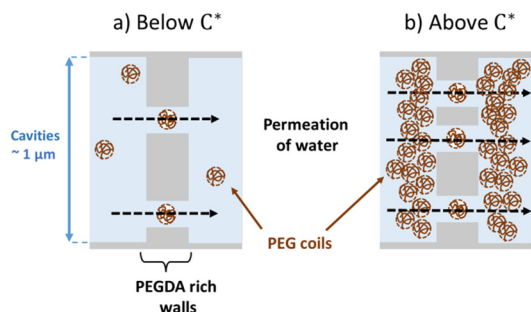
5359



### Neural-network-based solver for vesicle shapes predicted by the Helfrich model

Yousef Rohanizadegan,\* Hong Li and Jeff Z. Y. Chen\*

5367



### Tuning the water intrinsic permeability of PEGDA hydrogel membranes by adding free PEG chains of varying molar masses

Malak Alaa Eddine, Alain Carvalho, Marc Schmutz, Thomas Salez, Sixtine de Chateaufneuf-Randon, Bruno Bresson, Nadège Pantoustier, Cécile Monteux\* and Sabrina Belbekhouche\*

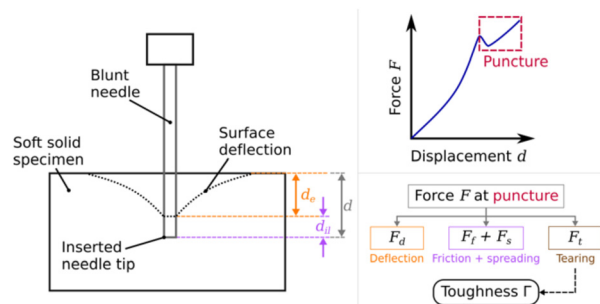




5377

### Force decomposition and toughness estimation from puncture experiments in soft solids

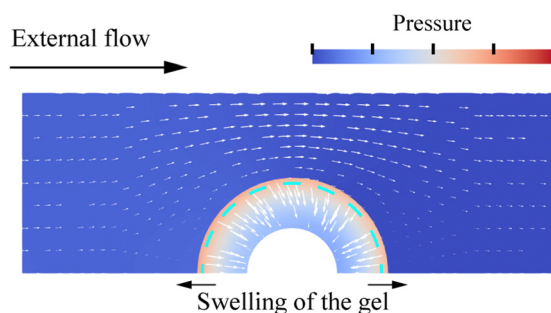
Pranav Shrestha,\* Curtis Geffner, Matthew Jaffey, Zhongnan Wu, Martina Iapichino, Mattia Bacca and Boris Stoeber\*



5389

### A theory of hydrogel mechanics that couples swelling and external flow

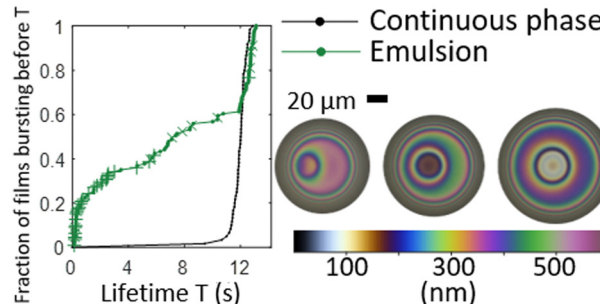
Zelai Xu, Pengtao Yue and James J. Feng\*



5407

### How emulsified droplets induce the bursting of suspended films of liquid mixtures

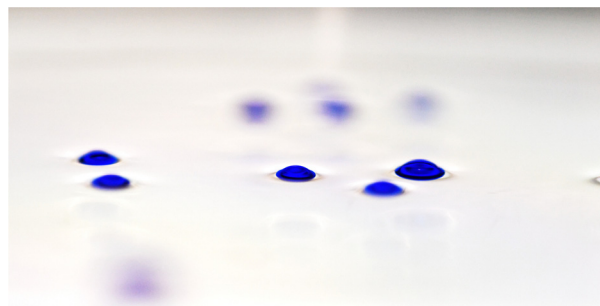
Léa Delance, Enric Santanach-Carreras, Nicolas Passade-Boupat, François Lequeux, Laurence Talini\* and Emilie Verneuil



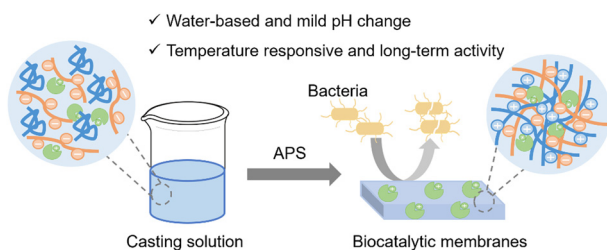
5417

### Electrically mediated self-assembly and manipulation of drops at an interface

Paul R. Kaneelil,\* J. Pedro de Souza, Günther Turk, Amir A. Pahlavan and Howard A. Stone\*



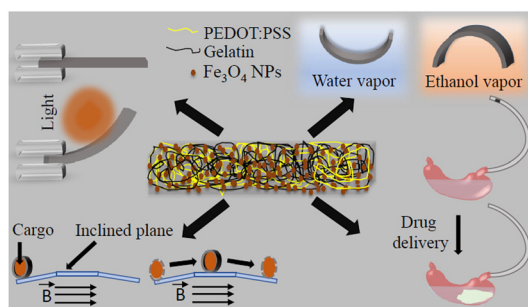
5425



### Biocatalytic PEI–PSS membranes through aqueous phase separation: influence of casting solution pH and operational temperature

Lijie Li, Muhammad Irshad Baig, Wiebe M. de Vos and Saskia Lindhoud\*

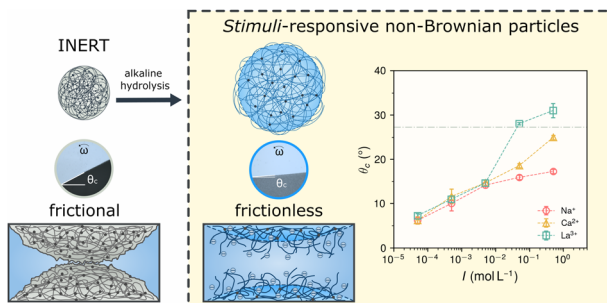
5435



### Responsive soft actuator: harnessing multi-vapor, light, and magnetic field stimuli

Vipin Kumar and Dillip K. Satapathy\*

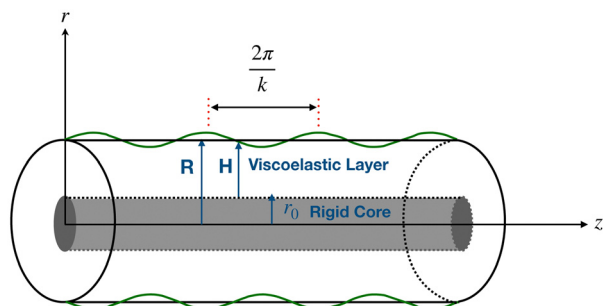
5447



### Granular aqueous suspensions with controlled interparticulate friction and adhesion

Lily Blaiset, Bruno Bresson, Ludovic Olanier, Élisabeth Guazzelli,\* Matthieu Roché\* and Nicolas Sanson\*

5456



### Plateau–Rayleigh instability of a soft layer coated on a rigid cylinder

Bharti, Andreas Carlson and Tak Shing Chan\*

