

# Soft Matter

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## IN THIS ISSUE

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### Cover

See Ying Diao *et al.*, pp. 2217–2229.  
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### Inside cover

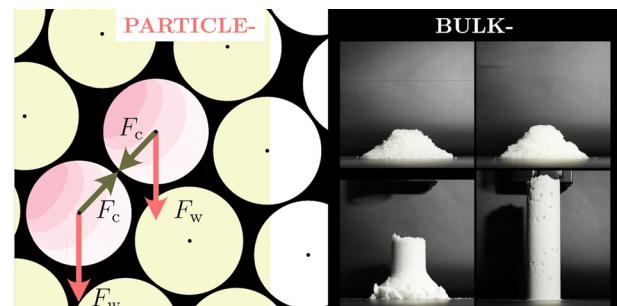
See Chenglin Wu, Zhaojian Li, Shaoting Lin *et al.*, pp. 2230–2241.  
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## REVIEW

2193

### Experimental models for cohesive granular materials: a review

Ram Sudhir Sharma and Alban Sauret\*

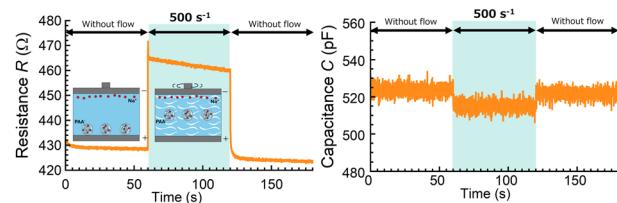


## COMMUNICATION

2209

### A torrent intercepts the ionic flow in a polyelectrolyte solution

Kaito Watanabe, Sayaka Naya, Yoshifumi Yamagata, Keisuke Miyamoto, Mika Kawai and Tetsu Mitsumata\*



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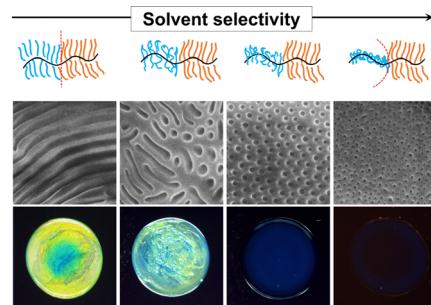


## PAPERS

2217

**Large modulation of the bottlebrush diblock copolymer morphology and structural color through solvent selectivity**

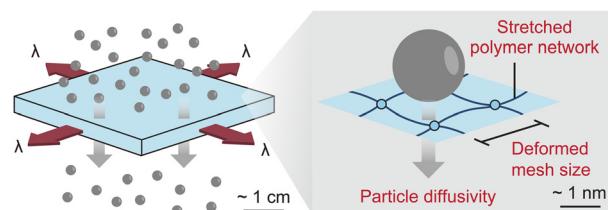
Sanghyun Jeon, Yash Kamble, Zhuang Xu, Azzaya Khasbaatar, Changhyun Hwang, Jong-Hoon Lee, Jiachun Shi, Simon A. Rogers, Damien Guironnet and Ying Diao\*



2230

**Mechano-diffusion of particles in stretchable hydrogels**

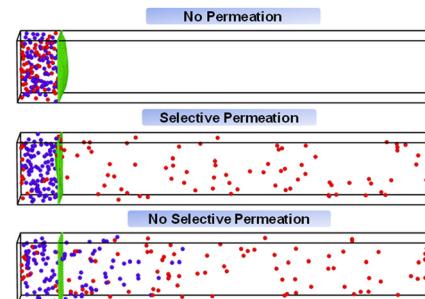
Chuwei Ye, Congjie Wei, Jiabin Liu, Tszi Hung Wong, Xinyue Liu, Ziyou Song, Chenglin Wu,\* Zhaojian Li\* and Shaoting Lin\*



2242

**Demixing of an active-passive binary mixture through a two-dimensional elastic meshwork**

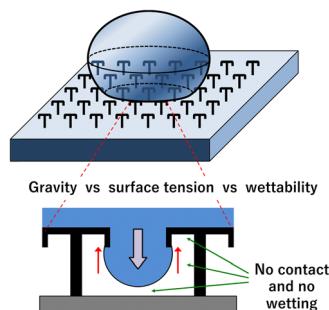
Ramanand Singh Yadav and Rajarshi Chakrabarti\*



2251

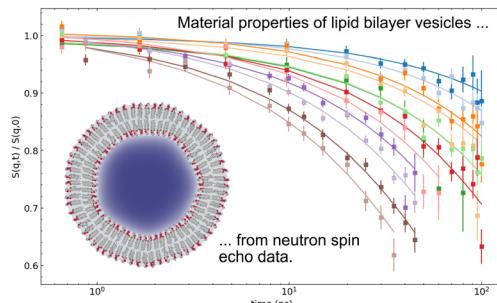
**Synthesis and isolation of metalloprotein on a super water-repellent umbrella-shaped pillar array with double re-entrant structure**

Daiki Tanaka,\* Masashi Kobayashi, Risa Fujita, Dong Hyun Yoon, Tetsushi Sekiguchi, Takashiro Akitsu, Shuichi Shoji, Takashi Tanii and Masahiro Furuya



## PAPERS

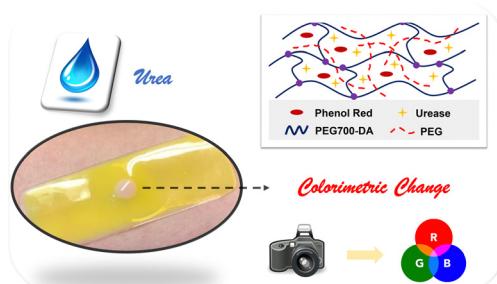
2258



**The effect of cholesterol on the bending modulus of DOPC bilayers: re-analysis of NSE data**

Frank Heinrich\* and John F. Nagle\*

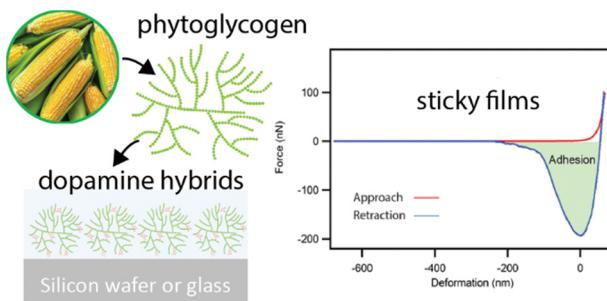
2268



**Development of colorimetric PEG-based hydrogel sensors for urea detection**

Spyridon Efstatithiou, Alan M. Wemyss, Despina Coursari, Rachel A. Hand, Emmett Cullen Tinley, Jane Ford, Stephanie E. Edwards, Susan Bates, Richard L. Evans, Ezat Khoshdel and David M. Haddleton\*

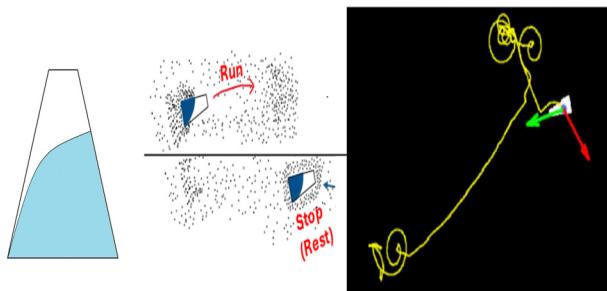
2282



**Hybrid phytoglycogen-dopamine nanoparticles as biodegradable underwater adhesives**

Jiayi Liu, Dmitrii Sychev, Nadiia Davydiuk, Mahmoud Al-Hussein, Andreas Fery and Quinn A. Besford\*

2291



**Run-and-tumble like motion of a camphor-infused Marangoni swimmer**

Pampa Dey,\* Abhishek Thakur, Aarsh Chotalia, Amitabha Nandi and P. Parmananda

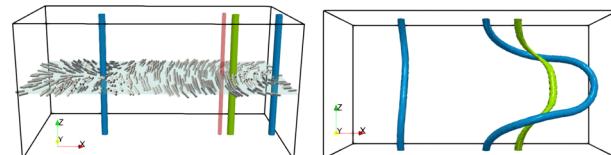


## PAPERS

2300

**Defect dynamics in cholesterics: beyond the Peach–Koehler force**

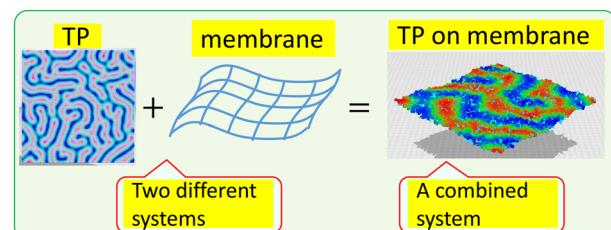
Joseph Pollard\* and Richard G. Morris



2317

**Turing patterns on polymerized membranes: coarse-grained lattice modelling with an internal degree of freedom for polymer direction**

Fumitake Kato, Hiroshi Koibuchi,\* Elie Bretin, Camille Carvalho, Roland Denis, Simon Masnou, Madoka Nakayama, Sohei Tasaki and Tetsuya Uchimoto

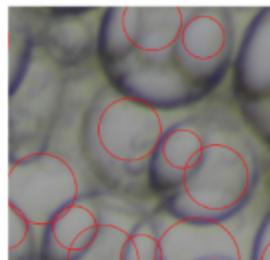


2339

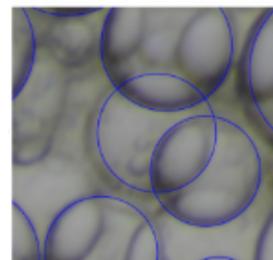
**Computer vision for high-throughput analysis of pickering emulsions**

Kieran D. Richards,\* Ella Comish and Rachel C. Evans\*

## Standard method



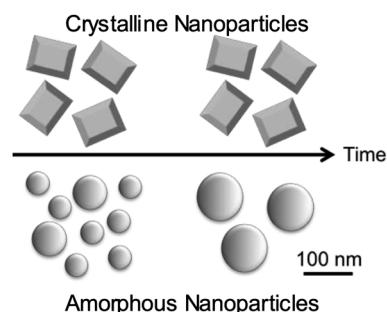
## This work



2349

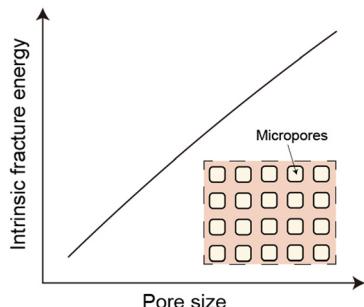
**On the Ostwald ripening of crystalline and amorphous nanoparticles**

Manja Annette Behrens, Alexandra Franzén, Sara Carlert, Urban Skantze, Lennart Lindfors and Ulf Olsson\*



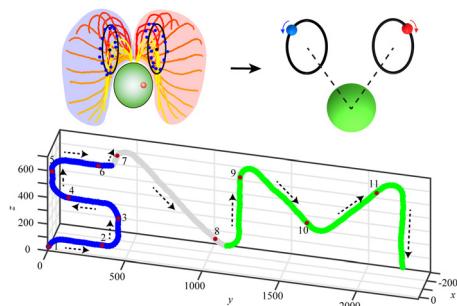
## PAPERS

2355

**Micropores can enhance the intrinsic fracture energy of hydrogels**

Puyu Cao, Bin Chen,\* Yi Cao and Huajian Gao

2363

**Reinforcement learning selects multimodal locomotion strategies for bioinspired microswimmers**

Yangzhe Liu, Zhao Wang and Alan C. H. Tsang\*