

# Soft Matter

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### Cover

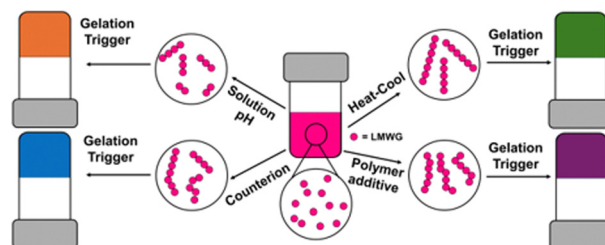
See Roe Bashan and Naomi Oppenheimer, pp. 3901-3909. Image reproduced by permission of Naomi Oppenheimer from *Soft Matter*, 2024, 20, 3901. Artist credit: Alexey Chizhik

## REVIEW

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### Methods of changing low molecular weight gel properties through gelation kinetics

Rebecca E. Ginesi\* and Emily R. Draper\*

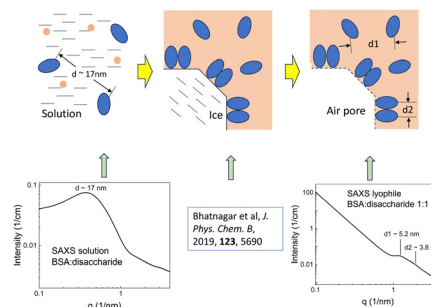


## COMMUNICATION

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Viviana Cristiglio, Shaoxin Feng,\* Michael Sztucki, Xiaoda Yuan and Evgenyi Shalaev\*



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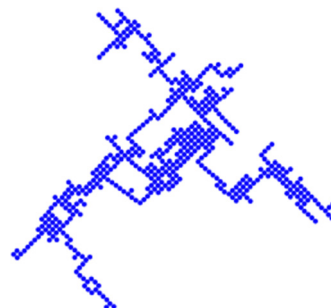
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### Hydrodynamically induced aggregation of two dimensional oriented active particles

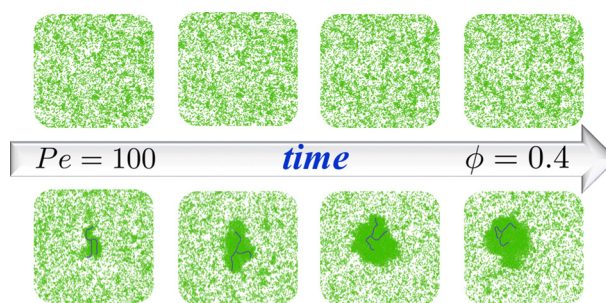
Roe Bashan and Naomi Oppenheimer\*



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### A passive star polymer in a dense active bath: insights from computer simulations

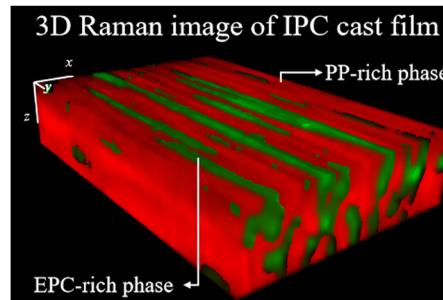
Ramanand Singh Yadav, Sanaa Sharma, Ralf Metzler\* and Rajarshi Chakrabarti\*



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### Morphology of impact polypropylene copolymer extruded cast film revealed by confocal Raman imaging

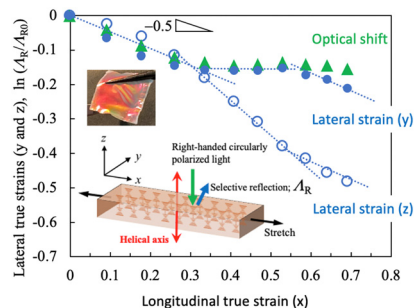
Chunbo Zhang,\* Meng Xu, Minqiao Ren, Hongwei Shi,\* Guoming Liu, Juan Li, Xuanbo Liu, Longgui Zhang\* and Dali Gao



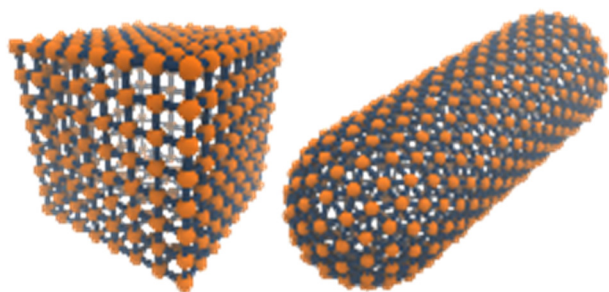
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### Significant anisotropic deformation and optical shifts in stretched cholesteric liquid crystal elastomers

Saki Mori, Hideaki Takagi, Nobutaka Shimizu, Noriyuki Igarashi, Shinichi Sakurai and Kenji Urayama\*



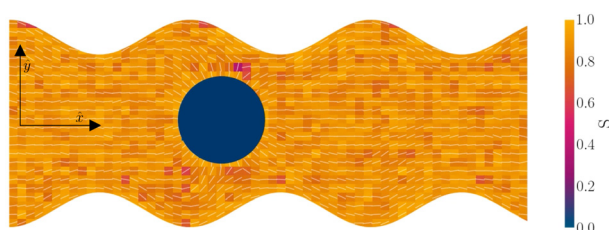
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### Mesoscale simulations of diffusion and sedimentation in shape-anisotropic nanoparticle suspensions

Yashraj M. Wani, Penelope Grace Kovakas, Arash Nikoubashman\* and Michael P. Howard\*

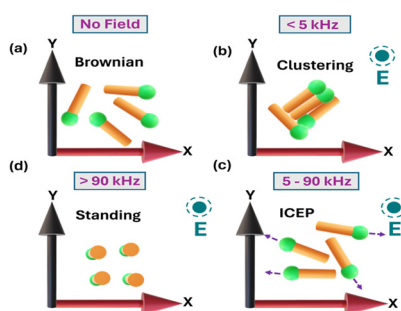
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### Lock-key microfluidics: simulating nematic colloid advection along wavy-walled channels

Karolina Wamsler, Louise C. Head and Tyler N. Shendruk\*

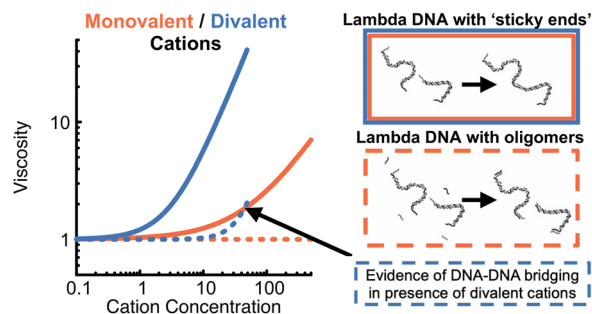
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### Dynamics and phase behavior of metallo-dielectric rod-shaped microswimmers driven by alternating current electric field

Suvendu Kumar Panda, Srikanta Debata, Nomaan Alam Kherani and Dhruv Pratap Singh\*

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### Effects of monovalent and divalent cations on the rheology of entangled DNA

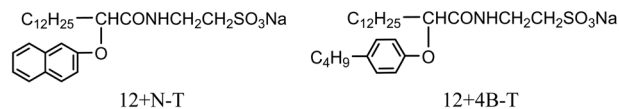
Jennifer Harnett, Simon Weir and Davide Michieletto\*



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### The effect of aromatic side chains on the dilational rheological properties of *N*-acyltaurate amphiphiles at water–decane interfaces

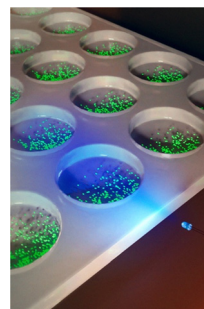
Yang-wen Zhu, Zhi-cheng Xu, Li Zhang, Ping Liu, Yu Hou, Lei Zhang\* and Lu Zhang\*



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### Short-term memory effects in the phototactic behavior of microalgae

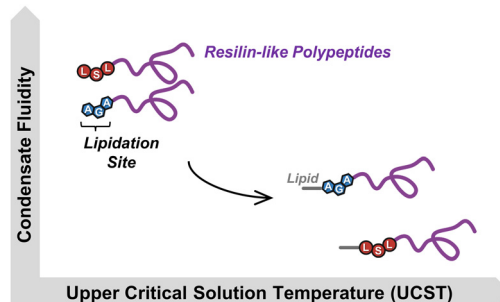
Taha Laroussi, Mojtaba Jarrahi and Gabriel Amselem\*



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### Lipidation alters the phase-separation of resilin-like polypeptides

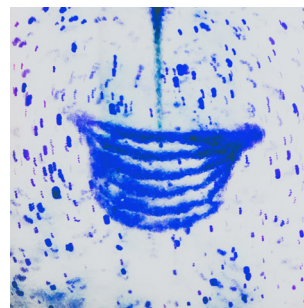
Zhe Zhang, Jingjing Ji, Md. Shahadat Hossain, Briah Bailey, Shikha Nangia\* and Davoud Mozhdehi\*



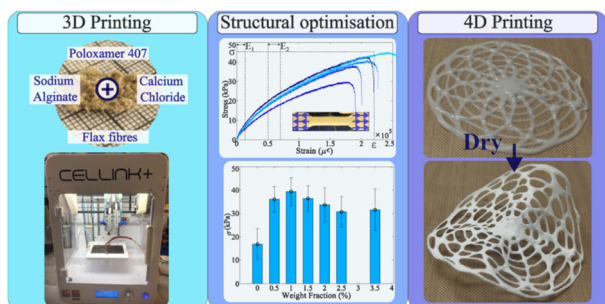
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### Confinement controls the creep rate in soft granular packings

Joshua A. Dijksman\* and Tom Mullin



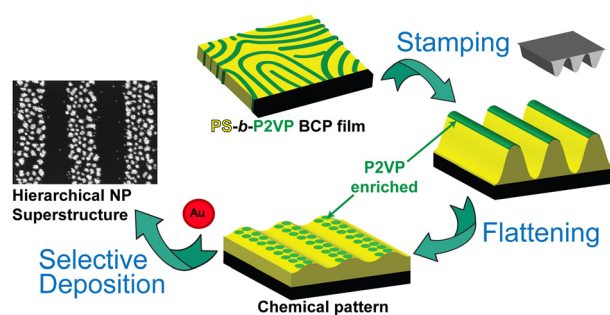
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### Flax fibre reinforced alginate poloxamer hydrogel: assessment of mechanical and 4D printing potential

Charles de Kergariou,\* Graham J. Day, Adam W. Perriman, James P. K. Armstrong and Fabrizio Scarpa

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### Nanoparticle assembly by transient topography induced by applying soft lithography to block copolymer films

Meneka Banik and Roy Shenhar\*

