

Soft Matter

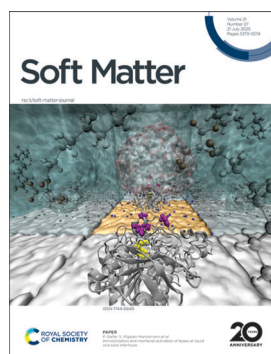
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IN THIS ISSUE

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Cover

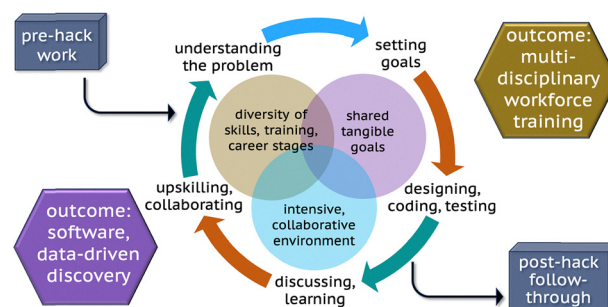
See P. Giefer, S. Köppen-Hannemann *et al.*, pp. 5398–5412. Image reproduced by permission of Patrick Giefer and Susan Köppen-Hannemann from *Soft Matter*, 2025, 21, 5398.

TUTORIAL REVIEW

5381

Hacktive matter: data-driven discovery through hackathon-based cross-disciplinary coding

Megan T. Valentine* and Rae M. Robertson-Anderson*

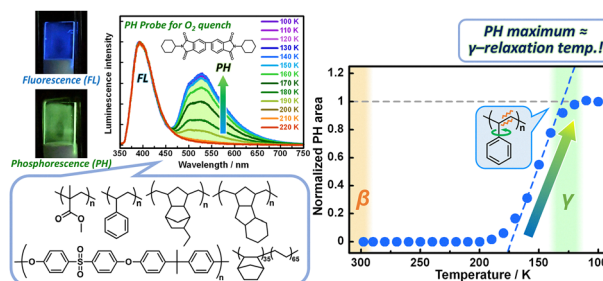


COMMUNICATION

5393

Precise detection of local relaxation of amorphous polymers at low temperatures via O₂ diffusion probed by a dual-luminescent imide compound

Rika Watanabe, Marina Doi, Haonan Liu, Masatoshi Tokita and Shinji Ando*



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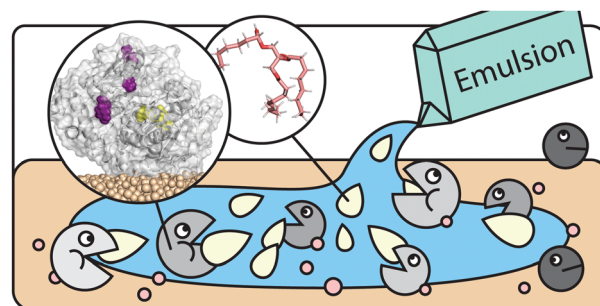
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5398

Immobilization and interfacial activation of lipase at liquid and solid interfaces

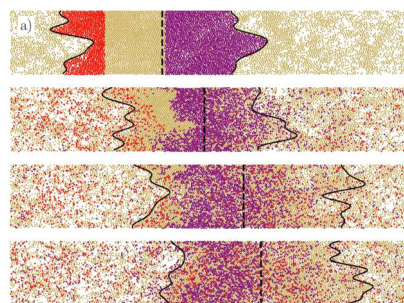
P. Gießer,* U. Fritsching, L. Colombi Ciacchi and S. Köppen-Hannemann*



5413

Dynamics and rupture of doped motility induced phase separation

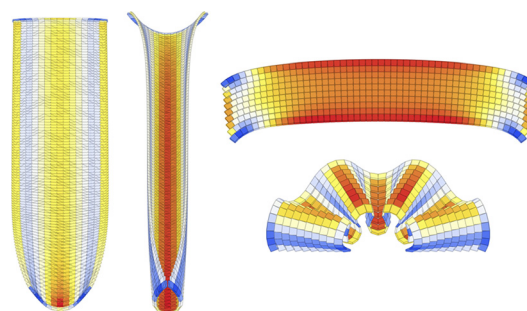
Rodrigo Fernández-Quevedo García,* Enrique Chacón, Pedro Tarazona and Chantal Valeriani*



5423

Self-limiting states of polar misfits: frustrated assembly of warped-jigsaw particles

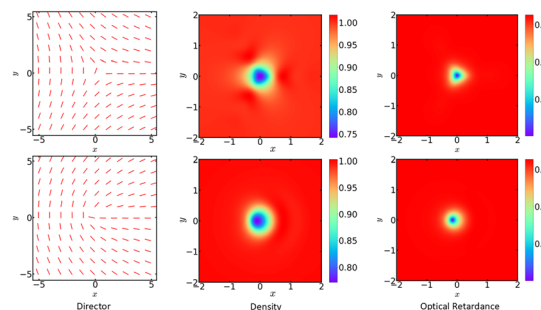
Michael Wang and Gregory M. Grason



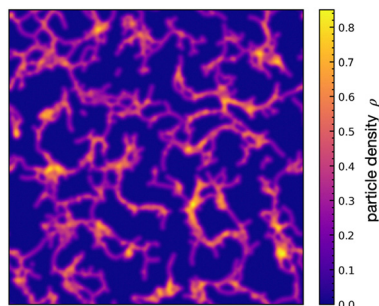
5447

Self consistent field theory of isotropic–nematic interfaces and disclinations in a semiflexible molecule nematic

Longyu Qing* and Jorge Viñals



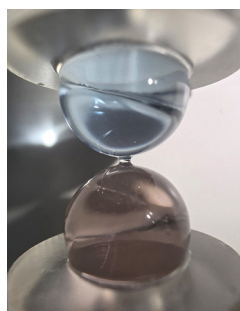
5459



Fluctuation induced network patterns in active matter with spatially correlated noise

Sebastian Fehlinger, Kai Cui, Arooj Sajjad, Heinz Koepl and Benno Liebchen*

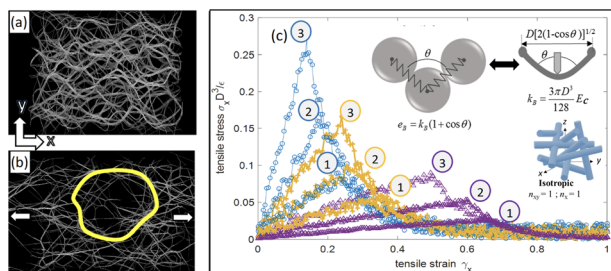
5468



Capillary-induced adhesive contact dynamics determines dissipation and flow structure in wetted hydrogel packings

Zohreh Farmani, Jing Wang, Ralf Stannarius and Joshua A. Dijksman*

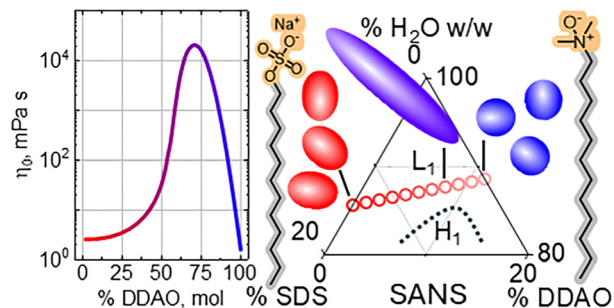
5480



Micromechanical modelling of cellulose hydrogel composites based on coarse-grained molecular dynamics

Mauricio R. Bonilla, Sridhar K. Kannam, Matthew T. Downton, Monika S. Doblin, Antony Bacic, Michael J. Gidley and Jason R. Stokes*

5494



SANS and rheology of elongated SDS-DDAO mixed micelles near the phase boundary

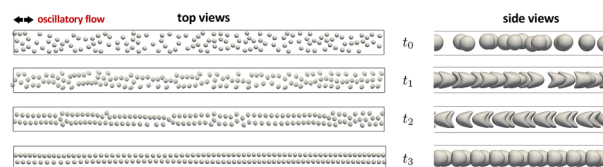
Luis M. G. Torquato, Gunjan Tyagi, Zain Ahmad, Liva Donina, Najet Mahmoudi, Rebecca Fong, Paul F. Luckham and João T. Cabral*



5503

Oscillatory flow improves hydrodynamic ordering of soft suspensions in rectangular channels

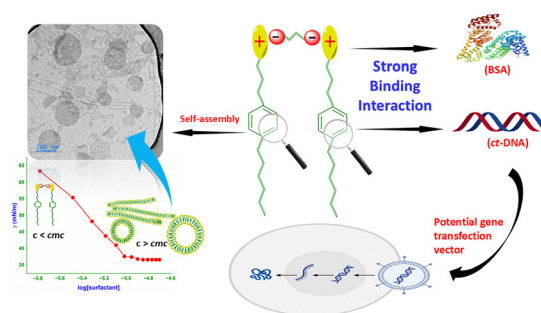
Paul C. Millett



5515

Unravelling the self-assembly of a novel cationic pseudo-gemini surfactant and its monomeric counterpart: interactions with DNA and BSA in aqueous medium at neutral pH

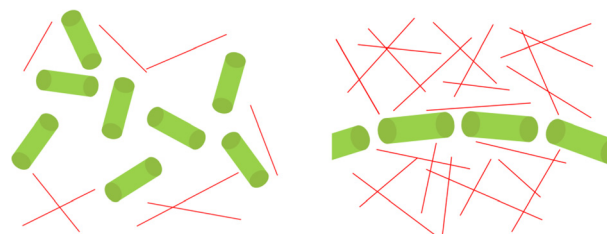
Homen Dahal, Sachin Soren, Shashi Kumar and Joykrishna Dey*



5529

Brownian dynamics simulation of the diffusion of rod-like nanoparticles in polymeric gels

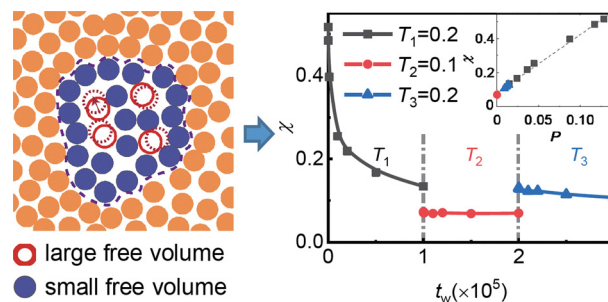
Mohammad-Reza Rokhforouz, Don D. Sin, Sarah Hedtrich and James J. Feng*



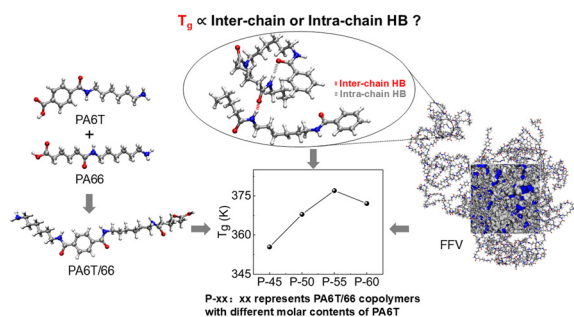
5542

Unraveling molecular mechanisms of aging dynamics in the Kob–Andersen model: the role of free volume

Yifan Yang, Yuyuan Lu,* Yaozhang Yang, Xia Wang and Lijia An



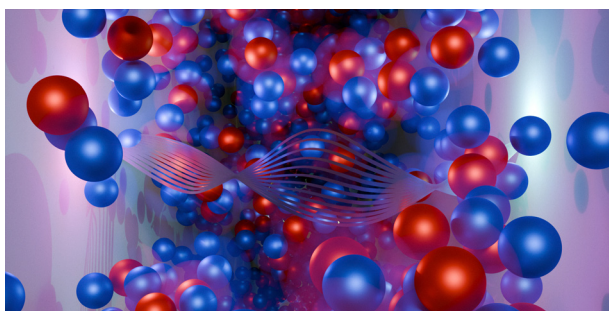
5553



Investigating glass transition in a PA6T/66 copolymer through molecular dynamics simulations

Lele Wei, Liping Zhu, Jin Wen* and Meifang Zhu

5562



Solvent-induced ion clusters generate long-ranged double-layer forces at high ionic strengths

David Ribar, Clifford E. Woodward and Jan Forsman*

