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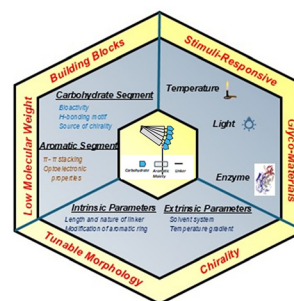
Cover
See Lucio Isa *et al.*, pp. 5194–5203. Image reproduced by permission of Lucio Isa and Carolina van Baalen from *Soft Matter*, 2025, **21**, 5194. Artwork by Carolina van Baalen.

TUTORIAL REVIEW

5173

Aromatic–carbohydrate amphiphiles and self-assembly into supramolecular glycostructures

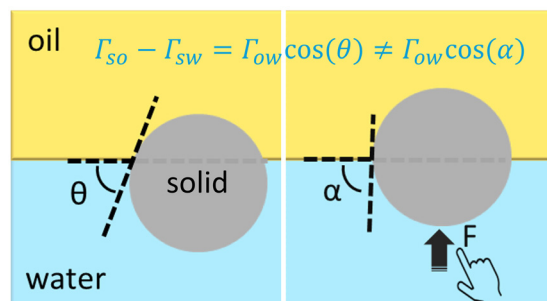Anne George, Kingshuk Bag and Narayanaswamy Jayaraman*

COMMUNICATION

5188

Free energy modelling of a spherical nanoparticle at an oil/water interface

Zhiwei Huang* and Joseph L. Keddie

$$\Gamma_{so} - \Gamma_{sw} = \Gamma_{ow}\cos(\theta) \neq \Gamma_{ow}\cos(\alpha)$$

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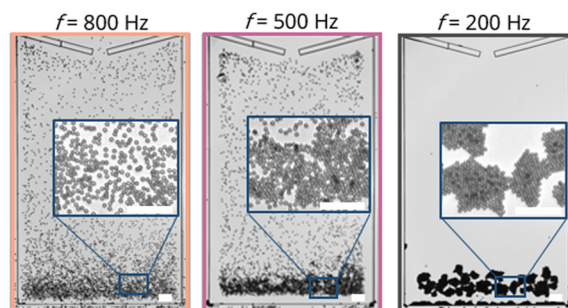
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PAPERS

5194

Tunable assembly of confined Janus microswimmers in sub-kHz AC electric fields under gravity

Carolina van Baalen, Laura Alvarez, Robert W. Style and Lucio Isa*

5204

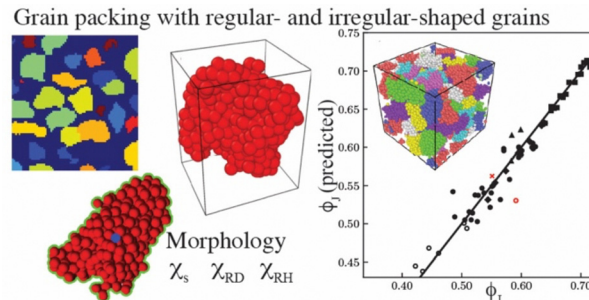**Dipolar colloids in three dimensions: non-equilibrium structure and re-entrant dynamics**

Nariaki Sakaï, Katherine Skipper, Fergus J. Moore, John Russo and C. Patrick Royall*
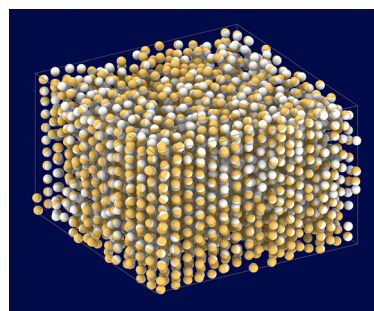
5214

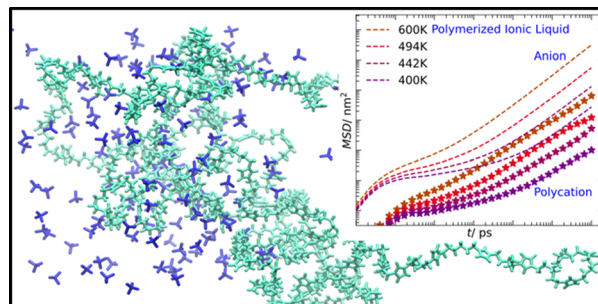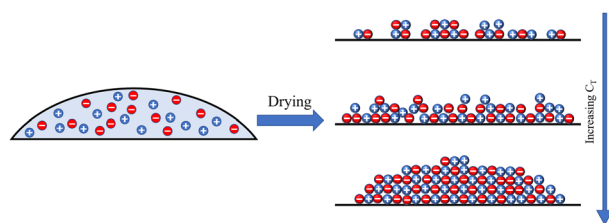**Interaction of grain morphology and intergranular friction on grain packing**

Samuel Martin and Marcia A. Cooper*

5231

Comparative molecular dynamics simulation studies of simple and polymerized ionic liquids

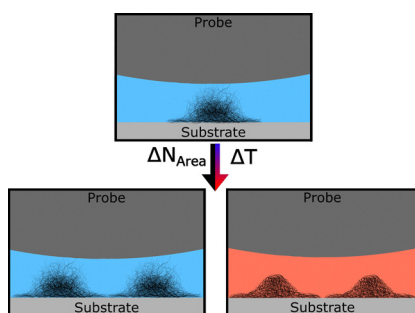Arshid Ahmad, Robin Köster, Sebastian Kloth and Michael Vogel*

PAPERS

PAPERS

5296

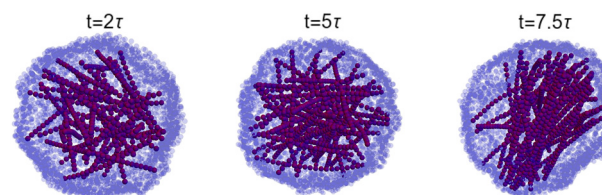#### Equilibrium phases and phase transitions in multicritical magnetic polymers

Alberto Raiola, Emanuele Locatelli, Davide Marenduzzo* and Enzo Orlandini
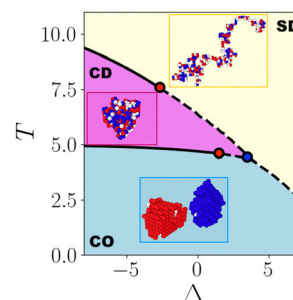
5312

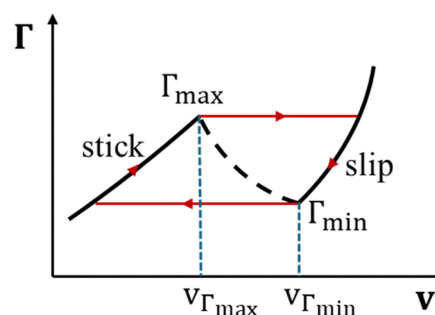#### Generating forces in confinement *via* polymerization

Dino Osmanović* and Elisa Franco

5323

A rate dependent interface model for stick-slip fracture in adhesives and polymer glasses
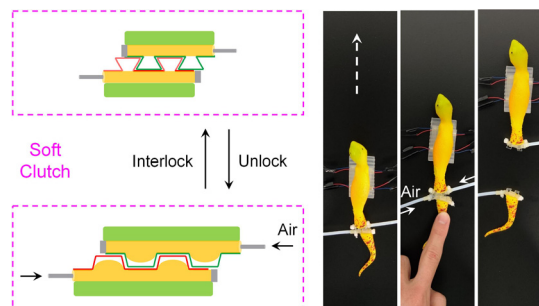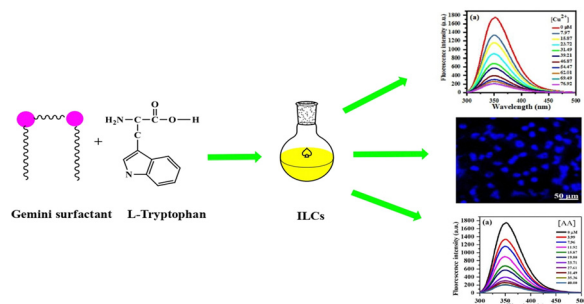
Chung-Yuen Hui,* Xuemei Xiao and Matteo Ciccotti*

5337

Surface buckling enabled soft clutch

Zichao Dai, Tong Wang, Wei Wu, Junpeng Ma, Hang Xiao, Xi Chen and Liangliang Zhu*
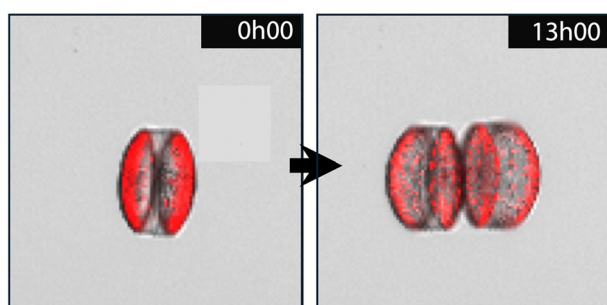
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5346

Multifunctional fluorescent ionic liquid crystals based on L-tryptophan and gemini surfactants for Cu(II) and ascorbic acid detection in real samples

Muhammad Bilal Ahmad, Rabia Arif and Arifa Shaheen*

5359

Mechanics control the proliferation of diatoms entrapped in hydrogels

Rani Boons, Dominic Gerber, Robert W. Style, Anouk Droux, Tanja Zimmermann, Gustav Nyström, Gilberto Siqueira* and André R. Studart*