

Soft Matter

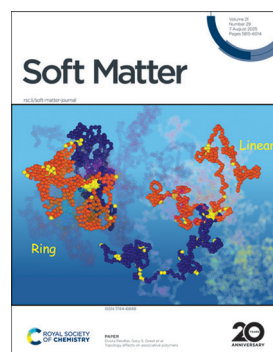
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See Dvora Perahia, Gary S. Grest *et al.*, pp. 5823–5832. Image reproduced by permission of John M. Bracewell, Rosita Sivaraj, Dvora Perahia and Gary S. Grest from *Soft Matter*, 2025, 21, 5823.



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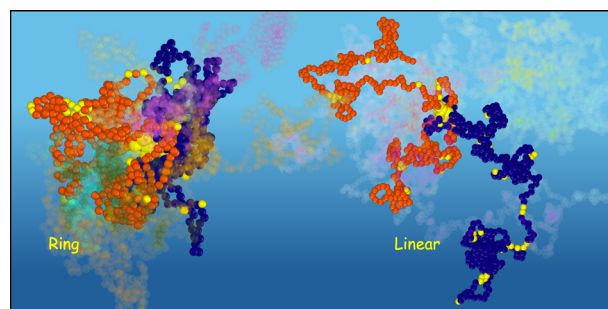
See Wenxiao Pan *et al.*, pp. 5833–5851. Image reproduced by permission of Nunzia Lauriello from *Soft Matter*, 2025, 21, 5833.

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Topology effects on associative polymers

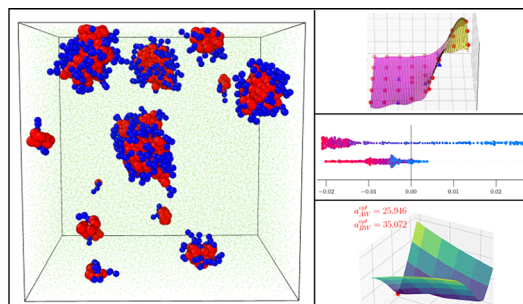
John M. Bracewell, Rosita Sivaraj, Dvora Perahia* and Gary S. Grest*



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Interpretable machine-learning enhanced parametrization methodology for Pluronics–water mixtures in DPD simulations

Nunzia Lauriello, Deekshith Naidu Ponnana, Zhan Ma, Karel Šindelka, Antonio Buffo, Gianluca Boccardo, Daniele Marchisio and Wenxiao Pan*



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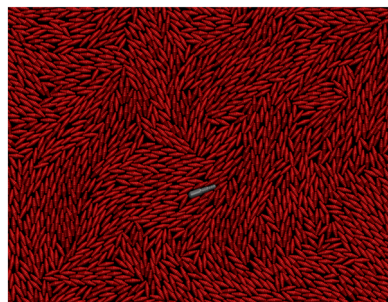


PAPERS

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A motile rod in an active nematic medium: caging, orientational trapping, and anomalous diffusion

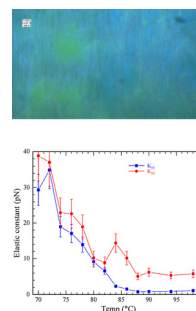
Abhishek Sharma* and Harsh Soni



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Freedericksz transitions in the nematic and smectic Z_A phases of DIO

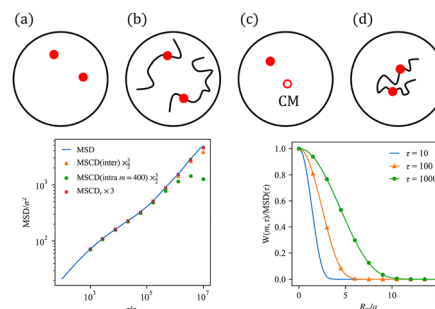
J. T. Gleeson,* S. N. Sprunt, A. Jákli, P. Guragain and R. J. Twieg



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Note on two-point mean square displacement

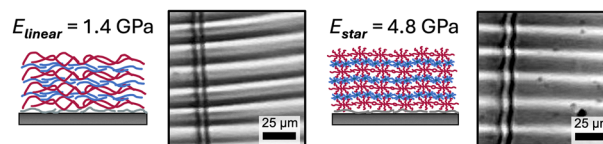
Naoya Katayama and Takahiro Sakaue*



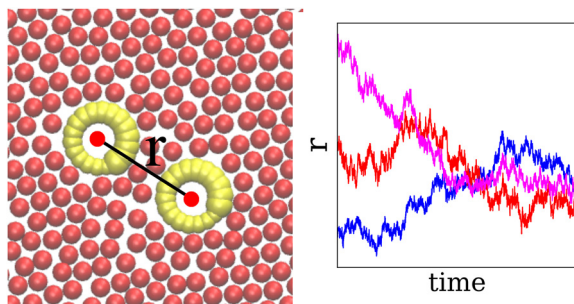
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Influence of polymer architecture, ionization, and salt annealing on the stiffness of weak polyelectrolyte multilayers

Jordan Brito, Annie Luse, Aliaksei Aliakseyeu and Svetlana A. Sukhishvili*

Strain-Induced Elastic Buckling Instability for Mechanical Measurements (SIEBIMM) for Polyelectrolyte Multilayers

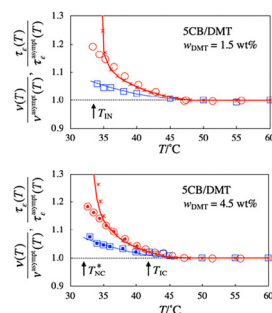
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Depletion effect in an active chiral system

Bharti Dabra and Harsh Soni*

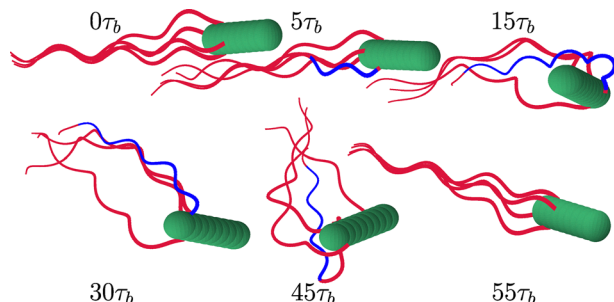
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Phase equilibrium and dynamics of 5CB mixed with dimethyl terephthalate: coupling of orientation and composition fluctuations in isotropic phase

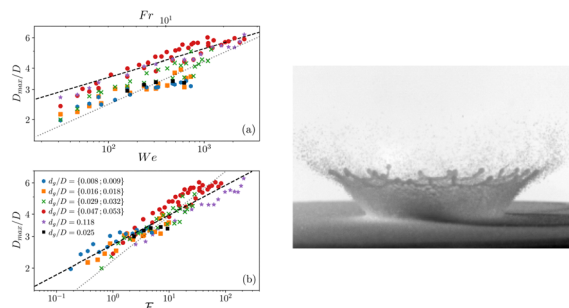
Ryoko Shimada,* Osamu Urakawa, Tadashi Inoue and Hiroshi Watanabe*

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*E. coli* bacterium tumbling in bulk and close to surfaces: a simulation study

Pierre Martin,* Tapan Chandra Adhyapak and Holger Stark

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Liquid drop impact on granular beds: the influence of drop inertia and grain size

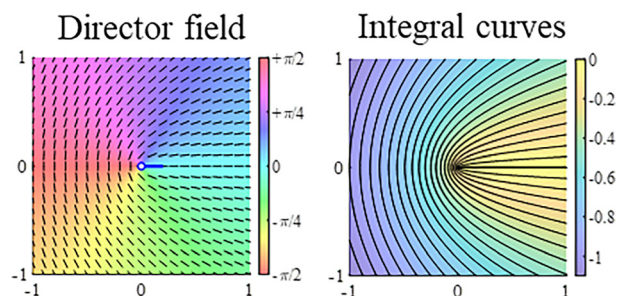
Alexandre Pontier, Sarah Blosse, Sylvain Viroulet and Laurent Lacaze*



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Defect dynamics in dry active nematics by residue calculus for holomorphic functions of nematic director field

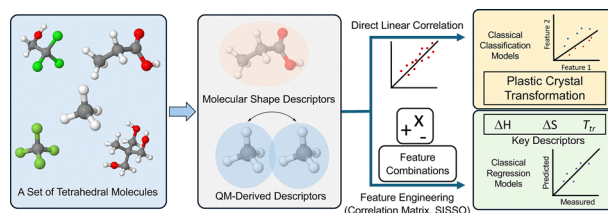
Hiroki Miyazako,* Hiroyuki Miyoshi and Takaaki Nara



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Low-data machine learning models for predicting thermodynamic properties of solid–solid phase transformations in plastic crystals

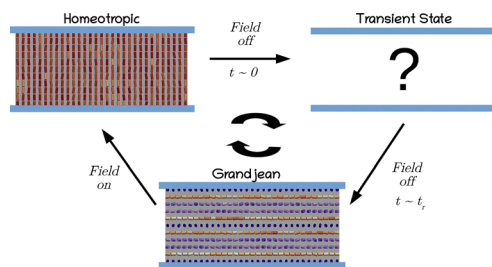
Tzu-Hsuan Chao, Alexander Focerrada, Patrick J. Shamberger* and Daniel P. Tabor*



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Winding up dynamics for matched and unmatched elastic constants in chiral nematic liquid crystals

Eric Khoudi Omori, Renato Ferreira de Souza, Rodolfo Teixeira de Souza and Rafael Soares Zola*

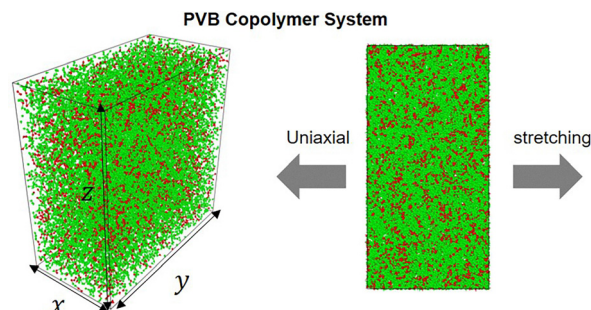


Winding up dynamics for chiral nematics is highly dependent on elastic constants and anchoring kind.

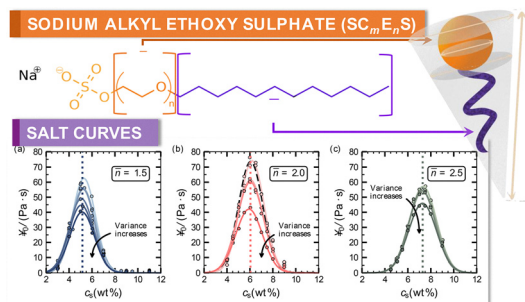
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Investigating hydrogen bonding in poly(vinyl butyral) copolymers near glass-transition temperature under uniaxial stress: a coarse-grained molecular dynamics study

Yunhan Zhang, Tingyu Xu, Fan Peng, Renkuan Cao, Ziwei Liu, Hao Sun, Kunpeng Cui* and Liangbin Li*



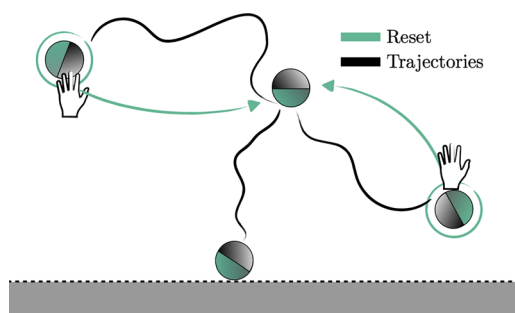
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Molecular architecture modulates self-assembly and micellar rheology of model ionic surfactant systems

Stephen L. Flores,* Christopher P. Cabry, Hugh Barlow, Joseph Peterson, Joanne L. Cook, Olga Mihailova, Ian P. Stott, Carlos Avendaño* and Christopher Hardacre*

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Optimal first-passage times of active Brownian particles under stochastic resetting

Yanis Baouche and Christina Kurzthaler*

