

Soft Matter

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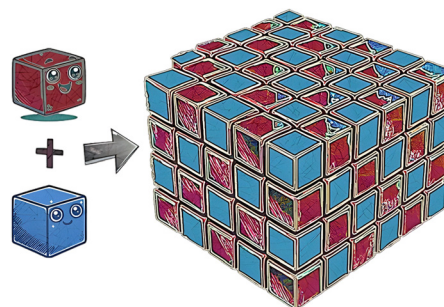
See Liping Liu, Pradeep Sharma *et al.*, pp. 5655–5668. Image reproduced by permission of Pratik Khandagale, Hao Lin, Liping Liu and Pradeep Sharma from *Soft Matter*, 2025, **21**, 5655.

REVIEW

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Co-assembly of nanometer- and submicrometer-sized colloidal particles into multi-component ordered superstructures

Javier Fonseca,* Li Jiao, Anna Broto-Ribas, Gurvinder Singh and Angang Dong

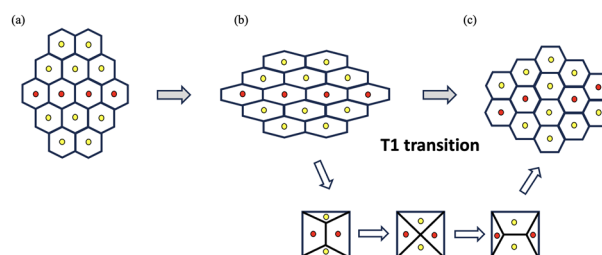


PAPERS

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Statistical mechanics of cell aggregates: explaining the phase transition and paradoxical piezoelectric behavior of soft biological tissues

Pratik Khandagale, Hao Lin, Liping Liu* and Pradeep Sharma*



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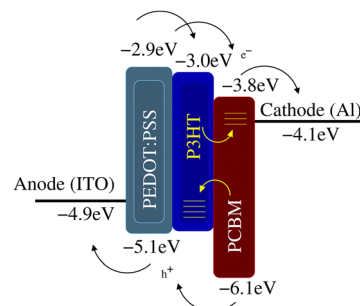
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Degradation mechanism of P3HT:PCBM-based bulk heterojunction solar cells

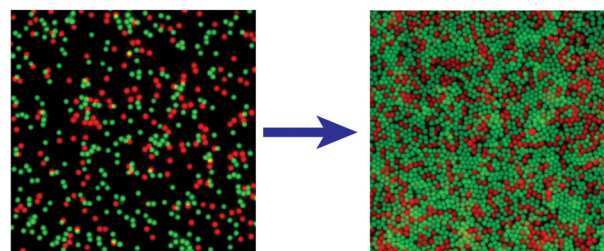
Tirukoti Mounika, Manshi Singh, Inderpreet Singh,*
P. Arun and Kuldeep Kumar*



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Frustrated crystallization kinetics in marginally mismatched binary self-assembly driven by depletion interactions

Sk Tahmid Shahriar, Chris Feltman, Sean Machler and
Nabila Tanjeem*



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Progressive colloidal clogging mechanism by dendritic build-up in porous media

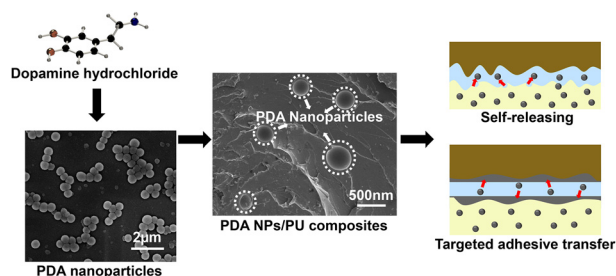
Walid Okaybi,* Sophie Roman and Cyprien Soulaïne



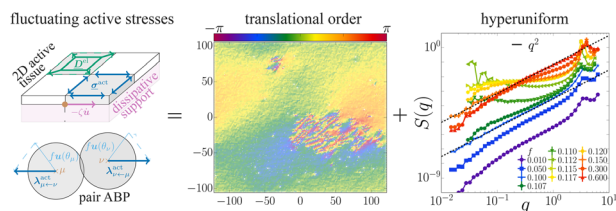
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Preparation of polydopamine nanoparticles/ polyurethane composites for self-targeted transfer of hydration lubrication films underwater

Chaobao Wang, Yuyang Xi, Xinqi Zou,* Xiuqin Bai,*
Jiale Chen and Binlu Zhang



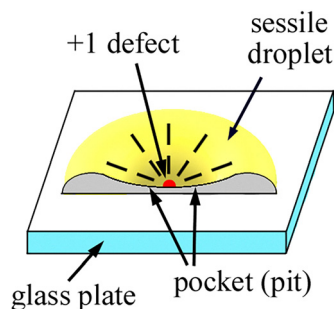
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Long-range order in two-dimensional systems with fluctuating active stresses

Yann-Edwin Keta* and Silke Henkes*

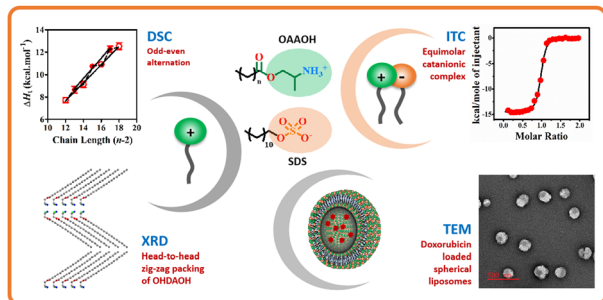
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Topological transformations of isotropic droplets with breakup and formation of topological defects in a confined nematic geometry

P. V. Dolganov,* N. A. Spiridenko and V. K. Dolganov

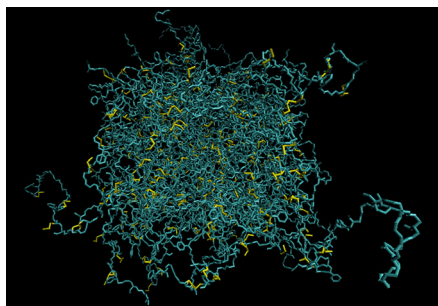
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Synthesis and characterization of long chain O-acyl-L-alaninols and investigation of drug encapsulation and release by equimolar O-myristoyl-L-alaninol/SDS catanionic liposomes

Suman Kumar Choudhury, Ravindar Chinapaka, Konga Manasa and Musti J. Swamy*

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Elastic, viscoelastic, dynamic, topological and structural properties of crosslinked SBR through atomistic molecular dynamics simulations

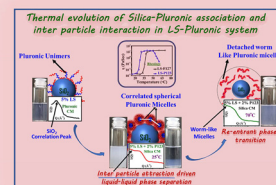
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Association of Pluronics at silica surfaces and accompanying evolutions of inter particle interactions in conjugate nano-suspensions

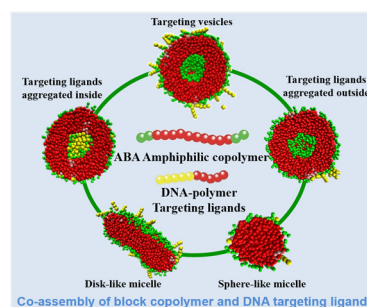
Sugam Kumar, Rajib Ganguly,* Dirk Honecker and Vinod K. Aswal



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Co-assembly of amphiphilic triblock copolymers with DNA-polymer targeting ligands in solution

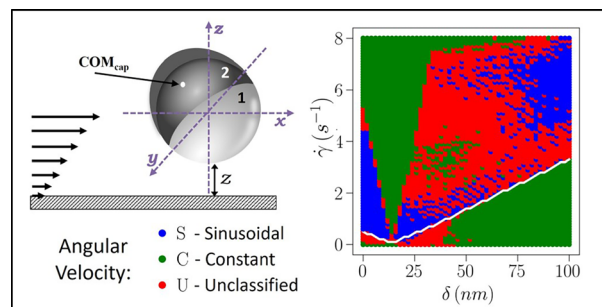
Junwei Zhou, Menghan Zou, Xiandeng Qiu and Rong Wang*



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Dynamics of a bottom-heavy Janus particle near a wall under shear flow

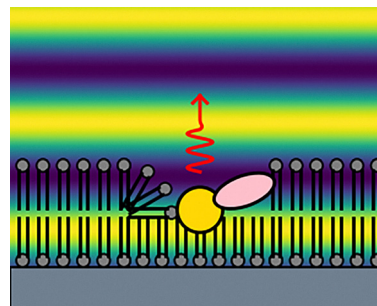
Zohreh Jalilvand, Daniele Notarmuzi,* Ubaldo M. Córdova-Figueroa, Emanuela Bianchi and Ilona Kretzschmar*



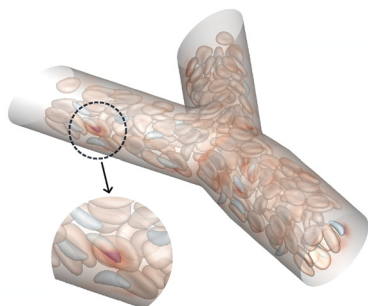
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X-ray fluorescence standing wave study of the interaction of the antimicrobial peptide indolicidin with a supported model membrane

Gobind Basnet, Jonathan Maloney, Jyotsana Lal, Elizabeth Gaillard, Denis T. Keane, Evguenia A. Karapetrova, Raymond Conley and Laurence Lurio*



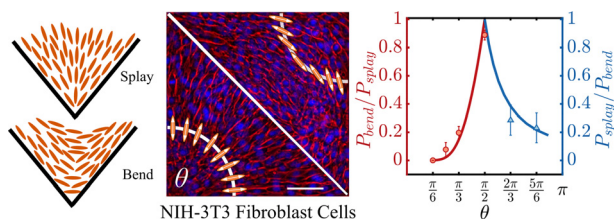
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Red blood cell partitioning and segregation through vascular bifurcations in a model of sickle cell disease

Xiaopo Cheng, Christina Caruso, Wilbur A. Lam and Michael D. Graham*

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Splay and bend deformations in cells near corners

Aniruddh Murali, Prasoon Awasthi, Kirsten Endresen, Arkadiusz Goszczak and Francesca Serra*

