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Non-equilibrium Phenomena in Confined Soft Matter ...

Non-Equilibrium Phenomena in Soft Matter. From cell biology to polymer photovoltaics, macromolecular structures and functionalities are the result of non-equilibrium (meaning that the system is in a state that is not the global free energy minimum) processes. While very important, so far it has been challenging to characterize, manipulate and understand these non-equilibrium processes because of the lack of appropriate techniques and theoretical approaches.

Non-Equilibrium Phenomena in Soft Matter | Max Planck ...

The Non-Equilibrium Soft Matter group of Liesbeth Janssen focuses on the behavior of materials that are inherently out of thermodynamic equilibrium, ranging from glasses and gels to active and living matter. We use a combination of theory, analytical modeling, and computer simulations to study the structural, dynamical, and mechanical properties of such materials.

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Non-equilibrium Phenomena in Confined Soft Matter ...

This book deals with those properties of non-equilibrium soft matter that deviate greatly from the bulk properties as a result of nanoscale confinement.The ultimate physical origin of these confinement effects is not yet fully understood. At the state of the art, the discussion on confinement effects focuses on equilibrium properties, finite size effects and interfacial interactions.

Non-equilibrium Phenomena in Confined Soft Matter ...

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Non-equilibrium Phenomena in Confined Soft Matter ...

Soft Matter, 2016, 12, 1517-1524 Article type. Paper. Permissions. Request permissions Exploiting non-equilibrium phase separation for self-assembly ... Here we show with macroscopic experiments and computer simulations that the forces underlying such non-equilibrium segregation can be used to control the self-assembly of particles that lack ...

Exploiting non-equilibrium phase separation for self ...

The imposed non-equilibrium boundary conditions give rise to a variety of geometry-dependent scenarios; while long-range interactions are suppressed (except for a finite penetration depth) in the bulk of the colloid solution in 3D, they can persist in quasi-2D geometry in which the colloids but not the solutes are confined to a surface, resulting in the formation of clusters or Wigner crystals, depending on the sign of the interaction between colloids.

Non-equilibrium interaction between catalytic colloids ...

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Non-equilibrium Phenomena in Confined Soft Matter ...

Active matter systems exhibit rich emergent behavior due to constant injection and dissipation of energy at the level of individual agents. Since these systems are far from equilibrium, their dynamics and energetics cannot be understood using the framework of equilibrium statistical mechanics. Recent developments in stochastic thermodynamics extend classical concepts of work, heat, and energy dissipation to fluctuating non-equilibrium systems.

Quantifying the non-equilibrium activity of an active ...

The cytoskeleton (CSK) is a tensed fiber framework that supports, shapes and stabilizes the cell. The CSK is in a constant state of remodeling, moreover, which is an active non-equilibrium thermodynamic process. We report here that cytoskeletal remodeling involves reconfigurations that are not only

sudden bu

Non-equilibrium cytoquake dynamics in cytoskeletal ...

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Non-equilibrium Phenomena in Confined Soft Matter ...

The examples above highlight the importance of non-equilibrium aspects in soft matter science, due to kinetically arrested states or external driving forces. A special class of materials is that of active matter. These are systems that are intrinsically out of equilibrium, because the particles continuously consume energy that is used for their ...

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Non-Equilibrium Thermodynamics in Multiphase Flows (Soft ...

The primary purpose of this thesis is to study the effects of boundary conditions or confinement on both equilibrium and non-equilibrium soft matter systems via theoretical modelling. For equilibrium systems we have studied a system of colloidal particles in harmonic confinement, and for non-equilibrium systems we consider a system of self-propelled rods in both harmonic and hard wall confinement.