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and space-time. For the  
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biology to polymer

photovoltaics,

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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.

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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.

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The Non-Equilibrium

Soft Matter group of

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on the behavior of

materials that are

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This book deals with  
those properties of non-  
equilibrium soft matter  
that deviate greatly from  
the bulk properties as a  
result of nanoscale

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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.

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separation for self-  
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show with macroscopic  
experiments and  
computer simulations

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that the forces  
underlying such non-  
equilibrium segregation  
can be used to control  
the self-assembly of  
particles that lack ...

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The imposed non-  
equilibrium boundary  
conditions give rise to a  
variety of geometry-

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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,

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depending on the sign of  
the interaction between  
colloids.

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interaction between  
catalytic colloids ...

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exhibit rich emergent  
behavior due to  
constant injection and

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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

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work, heat, and energy  
dissipation to fluctuating  
non-equilibrium  
systems.

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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

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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

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cytoquake dynamics in  
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The examples above  
highlight the importance

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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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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,

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and for non-equilibrium systems we consider a system of self-propelled rods in both harmonic and hard wall confinement.

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