

Proposed relaxation of solar glass



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Overview

What is glass relaxation?

The glass, however, will continue to rearrange towards the metastable supercooled liquid at a much slower rate. If the glass is given sufficient time, it will progress back towards the supercooled liquid. This process, which is the opposite of the glass transition, is called glass relaxation , , , , , .

Do alkali-free aluminosilicate glasses have structural relaxation?

In this work, the network structure of alkali-free aluminosilicate glasses and their structural relaxation in the glass transition temperature range were studied by both experiment and molecular dynamics (MD) simulations.

What is a fundamental thermodynamic description of structural relaxation in glasses?

Karan Doss * and John C. Mauro † This work proposes a fundamental thermodynamic description of structural relaxation in glasses by establishing a link between the Prony series solution to volume relaxation derived from the principles of irreversible thermodynamics and asymmetric L'evy stable distribution of relaxation rates.

Can glass relaxation be predicted?

Despite the importance of glass relaxation, it remains a challenge to understand and predict. Models to predict the behavior of glass relaxation have been proposed for more than 80 years and have become increasingly more accurate at the cost of simplicity. These models have also been influenced by the models that have come before them.

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DSC to explore activation energy landscape of glass relaxation

This review paper discusses the methods of estimating the activation energy of the glass relaxation from DSC experiments that include heating through the glass transition, short ...

Numerical and atomistic models for predicting structural relaxation ...

From optical fiber to high-tech displays, glass relaxation plays a critical role. Due to the non-equilibrium nature of glass, there is a constant evolution associated with relaxation ...



Structural Relaxation in Glass Transition and Crystallization

Dear Colleagues, In the application of classical nucleation theory to the theoretical description of crystallization of liquids and glasses, it is assumed as a rule that the nucleation ...

Structural relaxation and reheating shrinkage ...

The enthalpy relaxation of the glass was measured using differential scanning calorimetry, and there were very small enthalpy ...

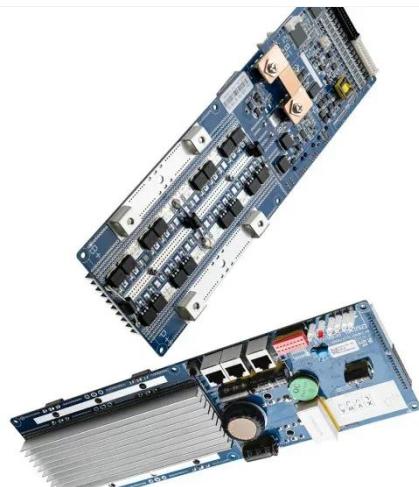


Glass relaxation and hysteresis of the glass transition by ...

Glass relaxation can result in a non-reversible glass transition upon a cooling/reheating cycle. Here, based on molecular dynamics simulations, we present a novel ...

Theory of structural relaxation in glass from the ...

The reverse kinetic process of the glass transition, viz., relaxation in liquids and glasses [4], also remains one of the oldest, most thoroughly studied and yet unsolved problems [3].



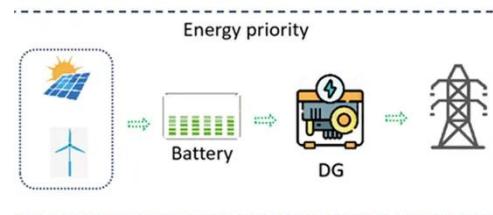
Pressure-induced nonmonotonic cross-over ...

A major stumbling block in our understanding of glass and glass phenomena is the elusive relationship between relaxation dynamics ...



Pressure-induced nonmonotonic cross-over of steady relaxation ...

A major stumbling block in our understanding of glass and glass phenomena is the elusive relationship between relaxation dynamics and glass structure. Here, we developed in ...



Real-time microscopy of the relaxation of a glass

Here, we build a spatio-temporal map of the relaxation dynamics of a highly stable glass into its supercooled liquid using real-time atomic force microscopy imaging.

Theory of structural relaxation in glass from the ...

(DOI: 10.1103/PHYSREVE.103.062606)
This work proposes a fundamental thermodynamic description of structural relaxation in glasses by establishing a

link between ...



Theory of structural relaxation in glass from the ...

We also report the distribution of relaxation times and energy barrier heights underpinning stretched exponential relaxation. It is proposed that this framework may be used ...

Structural relaxation and reheating shrinkage of alkali-free

The enthalpy relaxation of the glass was measured using differential scanning calorimetry, and there were very small enthalpy relaxation in alkali-free aluminosilicate glasses ...



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