

Single-glass appearance of single-crystal double-glass components

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Here we demonstrate a strategy to overcome this hurdle by avoiding the gaseous or liquid phase and directly converting glass into a single crystal.

While the former has a tendency to crystallise, the latter has a normal (single) glass transition. Similarly, monomeric titanium 2-ethylhexanoate also has a single glass transition. Thus, the unusual double ...

All the free-energy profiles show the simple double-well shape, whose two minima with low and high Q_{6v} correspond to the liquid and crystal phases, respectively.

On supercooling a liquid, the viscosity rises rapidly until at the glass transition it vitrifies into an amorphous solid accompanied by a steep drop in the heat capacity. Therefore, a pure...

The ability to fabricate patterned single-crystal architecture on a glass surface is demonstrated, providing a new class of micro-structured substrate for low cost epitaxial growth, ...

Here we show that homogeneous (pure) titanium alkoxide liquids exhibit two calorimetric glass transitions of comparable magnitude: that is, a comparable change in heat capacity.

ABSTRACT: On supercooling a liquid, the viscosity rises rapidly until at the glass transition it vitrifies into an amorphous solid accompanied by a steep drop in the heat capacity. ...

The present phase-separated MGs show double glass transition, crystallization and melting events. Our studies could render them useful for studying the glass transition and relaxation ...

We extend the replica liquid theory in order to describe the multiple glass transitions of binary mixtures with large size disparities, by taking into account the two-step replica symmetry ...

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