

Amorphous Inorganic Materials And Glasses

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This work may lead to controlling the properties of amorphous materials. Sometimes expensive glass is advertised as "crystal," but to material scientists, this could not be further from the truth.

Glass: Anomalous properties of amorphous solids

Semicrystalline thermoplastics such as nylon, polypropylene, and polyester are especially big users of these additives, but they can also be found in amorphous ... material is the TGA test. Because ...

The Materials Analyst, Part 3: The case of the missing filler

Amorphous solids, such as glass, obsidian, wax ... solids can be far lower than a crystalline solid composed of the same material. However, there can still be some medium-range order on the ...

Topology and machine learning reveal hidden relationship in amorphous silicon

This brief list merely illustrates how varied and common are the inorganic chemicals ... crystallinity. For amorphous polymers, rubbers, and cross-linked thermoset materials, DSC also provides a fast ...

Materials Characterization as an Integral Part of Global Biocompatibility

We curated this guide to represent five top-quality, aesthetically pleasing, and fun-to-use shatterproof glass sets that'll easily become the most-reached-for cups in your collection. Check out the ...

These Shatterproof Glasses Are Safer (and Way More Fun to Use) Than the Real Thing

Most current medical plastics applications feature materials that have been compounded in some fashion ... and reinforcing agents such as glass fibers. Thermoplastic elastomers, alloys, and blends are ...

Specialty Compounds for Medical Applications: An Introduction

The aim of this project was to synthesize unique, inorganic, non-equilibrium structures/materials for industrial use by drastically changing the composition, atomic configuration and electronic ...

MASUMOTO Amorphous & Intercalation Compounds

Until recently, phosphorescent materials were made from inorganic pigments such as zinc sulfide (green ... to the material from which the coating is made, it returns to its amorphous state, which does ...

New Organic Phosphorescent Material Boasts Multiple Applications

Scientists in Iraq have applied an amorphous carbon nitride (CN_x) thin film as an anti-reflective layer in commercial crystalline silicon solar cells. They claim they were able to improve their ...

Amorphous carbon nitride anti-reflection coating for solar cells

Topics include thermodynamics and phase equilibria, microstructure, diffusion, kinetics of phase transitions, nucleation and crystal growth, phase separation, spinodal decomposition, glass ...

Materials Science and Engineering

As I passed the doorless entrance of the outhouse I looked up, and there was an immense mass of some strange material suspended ... like the body of this strange amorphous organism — housing ...

The Home Town of the Army Ants

Present LCDs, which use amorphous silicon thin film ... The present technology also uses up a lot of raw materials, e.g., a massive amount of glass substrate. On the other hand, flexible displays ...

Research on Flexible Display Systems

Composite scaffolds of CS-gelatin with bioactive glass ceramic nanoparticles showed ... depending on different factors such as material composition, fabrication method, microstructure and ...

Nanocomposites for Bone Tissue Regeneration

Jamesson Solutions president: "Remember the expression 'glass ceiling'? Today, we have a 'glass cliff' as women are often placed in risky leadership roles, put in charge when companies are foundering.

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