

CHARACTERIZATION OF  
AMORPHOUS AND  
CRYSTALLINE ROUGH SURFACE:  
PRINCIPLES AND APPLICATIONS

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# Characterization Of Amorphous And Crystalline Rough Surface Principles And Applications Lu Toh Ming Wang Gwo Ching Zhao Yiping

## [Characterization Of Amorphous And Crystalline](#)

### **Characterization Of Amorphous And Crystalline**

The main difference between the amorphous and the crystalline ASR products is their Na/K-ratio with higher values for the amorphous product. The ratio in the amorphous products varies between 0.46 (C1-38) to 0.76 (C1-60) with an average for the four concrete mixtures of 0.64. This is slightly above the Na/K-ratio of the cement, which is 0.57. The Na/K-ratio in the pore solution of mortars containing reactive aggregates changes during the first weeks of hydration: it increases with ...

### **Characterization of amorphous and crystalline ASR products ...**

The amorphous material shows a discharge profile typical of that of a single-phase material, whereas the crystalline tin shows the plateaus expected for a two-phase mixture. Both were cycled between voltage limits of and, which is around the midpoint of their cycling curve.

### **Characterization of Amorphous and Crystalline Tin-Cobalt ...**

The amorphous content is inversely proportional to the E<sub>a</sub> where the E<sub>a</sub> for the crystalline form is higher and lower for the amorphous form with a standard deviation of ±2%. There was a good agreement between the DSC crystalline melting, recrystallization, and the solid state DEA conductivity method with relevant microscopic evaluation.

### **Characterization of crystalline and amorphous content in ...**

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Optimization and characterization of amorphous/crystalline silicon heterojunction solar cells. N. Jensen. Institute of Physical Electronics, University of Stuttgart, Pfaffenwaldring 47, D-70569 Stuttgart, Germany. Search for more papers by this author. R. M. Hausner. Institute of Physical Electronics, University of Stuttgart, Pfaffenwaldring 47, D-70569 Stuttgart, Germany. Search for more ...

### **Optimization and characterization of amorphous/crystalline ...**

Tadalafil (TD), a phosphodiesterase-5 (PDE-5) inhibitor with poor oral bioavailability. The aim of the study was to prepare and characterize three crystalline polymorphs of TD (II, III, and IV) and the tadalafil amorphous form (TD-AM). TD polymorphs and TD-AM were prepared and characterized by polarized light microscope (PLM), scanning electron microscopy (SEM), differential scanning calorimetry (DSC), thermal gravimetric analysis (TGA), X-ray powder diffractometry (XRPD), and Fourier ...

### **Characterization and Stability of Amorphous Tadalafil and ...**

Amorphous and nanocrystalline carbon films possess special chemical and physical properties such as high chemical inertness, diamond-like properties, and favorable

tribological properties. The materials usually consist of graphite and diamond microstructures and thus possess properties that lie between the two. Amorphous and nanocrystalline carbon films can exist in different kinds of matrices and are usually doped with a large amount of hydrogen. Thus, carbon films can be ...

### **Characterization of amorphous and nanocrystalline carbon ...**

Amorphous materials are thermodynamically in a non-equilibrium state, and therefore tend to convert to crystalline (thermodynamically stable) structure during storage. The rate of this transformation depends primarily on temperature and RH. When stored in a high RH environment, they adsorb moisture and subsequently recrystallize.

### **Characterization of crystalline and spray-dried amorphous ...**

Consequently, amorphous solids tend to soften slowly over a wide temperature range rather than having a well-defined melting point like a crystalline solid. If an amorphous solid is maintained at a temperature just below its melting point for long periods of time, the component molecules, atoms, or ions can gradually rearrange into a more highly ordered crystalline form.

### **12.1: Crystalline and Amorphous Solids - Chemistry LibreTexts**

All polymers have some crystallinity which is the main difference between amorphous and crystalline polymers. Amorphous polymers have a low degree of crystallinity whereas crystalline polymers have a high degree of crystallinity. The physical and chemical properties of a polymer will depend on the degree of crystallinity.

### **Difference Between Amorphous and Crystalline Polymers ...**

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### **Characterization of Amorphous and Crystalline Rough ...**

In vitro characterization confirmed that formulation A was an amorphous inclusion complex of ziprasidone in SBEDC with enhanced dissolution compared to a physical mixture of the two components. In vitro studies also confirmed that formulation B was comprised of ziprasidone free base crystals with a mean particle size of less than about 300 nm and good physical stability.

### **In vitro and in vivo characterization of amorphous ...**

Synthesis and material characterization of amorphous and crystalline (α-) Al<sub>2</sub>O<sub>3</sub> via aerosol assisted chemical vapour deposition † Sapna D. Ponja, a Ivan P. Parkin a and Claire J. Carmalt\* a Author affiliations \* Corresponding authors a Materials Chemistry Centre, Department of Chemistry, University College London, 20 Gordon Street,

London WC1H 0AJ, UK E-mail: c.j.carmalt@ucl.ac.uk Fax ...

### **Synthesis and material characterization of amorphous and ...**

In addition to a detailed description of the characteristics of random rough surfaces, Experimental Methods in the Physical Sciences, Volume 37, Characterization of Amorphous and Crystalline Rough Surface-Principles and Applications will focus on the basic principles of real and diffraction techniques for quantitative characterization of the rough surfaces.

### **Characterization of Amorphous and Crystalline Rough ...**

Crystalline and Amorphous Polymers. Crystalline structures are generally very ordered, which is what gives them strength and rigidity. Think of diamond or steel as examples. A crystalline polymer, where the molecular chains are largely locked in place against one another, is similar. Apply a load and it will break rather than bend. Amorphous polymers are the opposite. Rather than being rigid ...

### **Crystalline vs. Amorphous Polymers**

This is in contrast to the A/A TiO<sub>2</sub> /SiO<sub>2</sub> system, where changes in crystalline features at the amorphous-amorphous interface were observed as a function of optical optimization, although these variations did not give rise to fluctuations in hardness. This study demonstrates that incorporating aperiodicity for improved transmittance greatly influences the microstructural and interfacial characteristics of C/A and A/A multilayers and highlights a versatile route for exploring the ...

### **Synthesis and characterization of optically transparent ...**

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