

Title: Solar glass contains strontium

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In the present study, the effects of calcination temperature (400-650 °C) and the amount of strontium addition (0-7 mol.%) were investigated simultaneously. The sol-gel process and post-calcination ...

The amount of strontium released in solution after incubation in TRIS-HCl or citric acid buffer was measured by atomic absorption spectroscopy. XRD analyses revealed that partially substituted ...

Solid state nuclear magnetic resonance and vibrational spectroscopy showed that the glasses were predominantly composed of Q₂ silicate chains. Addition of strontium did not result in ...

We studied the structural properties of phosphate glasses doped with different content of strontium oxide using molecular dynamics simulations.

In the current study, a novel glass systems of the composition: (60 - y)B₂O₃ + 20ZnO + 10Li₂O + 10PbO + y SrO (0 ≤ y ≤ 25 mol%) have been synthesized. The effect of adding SrO on the ...

Mesoporous phosphate-based glasses have great potential as biomedical materials being able to simultaneously induce tissue regeneration and controlled release of therapeutic ...

In this study, a series of sol-gel-derived bioactive glasses based on SiO₂-CaO- SrO-P₂O₅ quaternary system was synthesized, in which 0-100 % of the calcium was substituted by ...

The strontium-glass studies were performed well scientifically, but the results and conclusions could be misleading in terms of the effect of strontium, or more broadly glass chemistry, ...

Since their discovery, several glass compositions have been developed to improve the properties and clinical abilities of traditional bioactive glass. Different inorganic ions, such as strontium (Sr²⁺), have ...

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