
Can alkali-activated materials improve Waste Valorisation of glass?
Among the promising alternatives for improving waste valorisation of glass, alkali-activated materials (AAMs) emerge as a solution. Waste glasses can be employed both as aggregates and as precursors, with a focus on its application as the sole raw material for synthesis.

Can glass be used as a raw material for alkaline activation?
This comprehensive overview results in the following conclusions: Glass has the potential to serve as the sole raw material for alkaline activation,functioning independently of its chemical composition and the molarity of the alkaline solution.

What is the molecular mechanism of mild alkali-activated glasses?
This suggests that the molecular mechanism of mild alkali-activated glasses is similar to glass corrosion. Due to the limited molarity,the alkaline solution does not allow for the complete dissolution of the glass used as raw material,but only affects the surface of the glass particles.

Can glass be used in geopolymers and alkali-activated materials?
Specifically, the utilisation of glass in the production of geopolymers and alkali-activated materials represents a significant opportunity to convert waste into high-value applications. This comprehensive overview results in the following conclusions:

Alkali substances can corrode materials such as glass and metals, leading to reduced efficiency and lifespan of solar panels. In detail, exposure to alkali can weaken the ...

SOLARCYCLE today announced a multi-year agreement with Genesis Alkali to purchase EcosodaTM, a low-carbon natural soda ash produced near Green River, Wyoming, ...

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(AAMs) emerge as a solution. Waste glasses can be employed both as ...

In this study, AAM mortars were prepared using crushed GC as a fine aggregate and SO as an alkali source for the effective utilization of waste glass from landfilled PVPs, and the effects of ...

Solarcycle plans to combine Ecosoda, a low-carbon natural soda ash from Genesis Alkali, with recycled materials from retired solar panels to produce the new solar glass.

Solarcycle has signed a multi-year agreement with Genesis Alkali to purchase Ecosoda, a low-carbon natural soda ash produced near Green River, Wyoming. The move will ...

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SolarCycle has entered into a multi-year agreement with Genesis Alkali to purchase Ecosoda, a low-carbon natural soda ash produced near Green River, Wyoming, for ...

In the present work, the diffusion mechanism of alkali ions (Li, K along with Na) from specially designed glass substrates, other than SLG, to the direct current magnetron sputtered ...

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US solar recycling firm Solarcycle has signed a supply deal with US chemical producer Genesis Alkali to support the production of solar glass at its planned manufacturing ...

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Photovoltaic glass manufacturing often utilizes alkali compounds to enhance durability and light transmission. While heavy alkali metals like potassium and cesium aren"t primary components, ...

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