

In this work, increasing amounts of waste foam glass were used to produce metakaolin-based alkali-activated composites. Phase composition and morphology were investigated by means ...

Numerous studies have elucidated the potential of converting non-recyclable glass waste into valuable materials thanks to the up-cycling strategies, including stoneware, glass wool fibres, ...

Alkali activation techniques (AATs) are utilized to produce glass-based foams (GBFs) including glass or glass ceramic foam, due to their eco-friendly process. Numerous studies have ...

A new technique for the production of glass foams was developed, based on alkali activation and gel casting.

In this study, the in-situ heating microscope method is used to study the foaming behavior of foam glass made from waste glass from PV modules. The foaming behavior of samples incorporating varying ...

To alleviate the problems of energy shortage and environmental pollution, 15 alkali-activated materials (AAM) were designed and prepared based on slag and waste photovoltaic glass ...

Using the life cycle assessment methodology, the research analyses the potential impacts associated to the glass foam obtained from waste glass through the alkali activation in a laboratory scale plant with ...

This work examines the potential for producing innovative glass-ceramic foams from zeolite-poor rock and sawdust using alkali activation and reactive sintering techniques. A ...

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