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# The role of chemical diffusion in glass processes and related challenges for glass sustainability

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## Abstract

Chemical diffusion plays a significant role in various facets of the glass melting process, including the assimilation of glass batch remnants into the molten glass and the corrosion of furnace refractories. Predicting the kinetics of chemical diffusion poses several challenges, primarily stemming from the intricate structure of the glass network, which leads to profound interconnections between the movements of different chemical species.

In this presentation, I will explore the characterization and description of chemical diffusion, delving into its theoretical underpinnings and highlighting practical scenarios where diffusion is a crucial factor.

**Keywords:** chemical diffusion

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