Mini Review

Material Corrosion in Molten Fluoride Salts

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Molten Salt Reactors (MSRs) have received worldwide attention due to its favorable economics, fueled utilization and safety characteristics. The fuel and coolant of MSRs are both molten fluoride salts. The subsequent molten salt induced structural material corrosion problem is a bottleneck during the development of MSRs, and thus has been investigated extensively. In this paper, the influence factors and mechanisms of material corrosion in molten fluoride salts are fully discussed.

Keywords: Molten fluoride salts, Mechanism, Corrosion, Molten salt reactors.

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