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### **Molten Salt Chemistry An Introduction**

Molten salts are of considerable significance to chemical technology. Applications range from the established ones, such as the production of aluminum, magnesium, sodium and fluorine, to those as yet to be fully exploited, such as molten salt batteries and fuel cells, catalysis, and solar energy.

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Molten salt systems can be used in reactors as a fuel itself, as a primary coolant or as a heat transfer, and also to recycle spent fuels. All of these applications are described in the Generation-IV ~GEN-IV! system research plan of the molten salt

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### **Molten Salts Chemistry and Technology**

A molten salt reactor (MSR) is a class of nuclear fission reactor in which the primary nuclear reactor coolant and/or the fuel is a molten salt mixture.

### **Molten salt reactor - Wikipedia**

1. Introduction. Ole Kleppa and associates have accurately measured the enthalpies of mixing of a large number of binary molten salt systems. These results are an important database.

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### **Molten salts chemistry | Review | Chemistry World**

The high solubility of fission products in molten salts provides a greater safety margin in molten salt-based reactor concepts that employ either homogeneous molten salt fluid fuel or encapsulated fuel particles immersed in a molten salt.

### **Molten Salts Chemistry | ScienceDirect**

ISBN: 9027724830 9789027724830: OCLC Number: 15489910: Notes: "Proceedings of the NATO Advanced Study Institute on Molten Salt Chemistry, Camerino, Italy, August 3-15, 1986"--Title page verso.

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Molten Salts Chemistry: From Lab to Applicationsexamines how the electrical and thermal properties of molten salts, and generally low vapour pressure are well adapted to high temperature chemistry, enabling fast reaction rates.

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A microscopic description for the partial DC conductivities in molten salts has been discussed by using a Langevin equation for the constituent ions. The memory function  $\gamma(t)$  can be written as in the form of a decaying function with time.

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