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Dear Editorial Board,

Journal of Nuclear Materials

On behalf of my co-authors and myself, I am hereby submitting our manuscript, entitled ``*Evaluation of thermophysical properties of the LiCl-KCl system via ab initio and experimental methods*”, for publication in the *Journal of Nuclear Materials*. This article provides a combined computational and experimental study of LiCl-KCl. The entire compositional spectrum was analyzed at relevant temperatures from 1300 K down to 700 K. This work employed a consistent and transparent down-select of the choice of dispersion interaction. Computational work determined the density, compressibility, heat capacity, enthalpy, and Gibbs free energy of mixing. New experimental densities were calculated using the Archimedes method. This work serves to alleviate the current knowledge gap in thermophysical properties of molten salts for both molten salt reactor and pyro-processing applications.

This work is new and we feel adds greatly to the scientific community.

Sincerely,

Benjamin Beeler