

## عنوان مقاله:

A Neural Network Approach to Predict Heat Capacity of Ionic Liquids

## محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: ۱۳۹۰)

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## خلاصه مقاله:

The heat capacity of ionic liquids is of special importance in engineering applications being required in calculations of energy transfer and thermodynamics. In this study heat capacity of different types of ionic liquids are modeled by using an artificial neural network (ANN) based on back-propagation method. A reliable database including more than ۳۶۰۰ experimental data of heat capacity is used for testing and training of ANN. The designed neural network can predict the heat capacity of ionic liquids used in this work with average absolute relative deviation percent of ۲.۹۵.

## کلمات کلیدی:

Ionic Liquid, Heat Capacity, Neural Network, ANN

## لینک ثابت مقاله در پایگاه سیویلیکا:

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