

Accepted Manuscript

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PII: S0140-7007(18)30289-5
DOI: <https://doi.org/10.1016/j.ijrefrig.2018.08.002>
Reference: IJIR 4069



To appear in: *International Journal of Refrigeration*

Received date: 18 April 2018
Revised date: 21 July 2018
Accepted date: 4 August 2018

Please cite this article as: Ali Dehghan Saei , Alireza Baghban , Fariba Zarei , Zhien Zhang , Sajjad Habibzadeh , ANFIS based Evolutionary Concept for Estimating Nucleate Pool Boiling Heat Transfer of Refrigerant-Ester Oil Containing Nanoparticles, *International Journal of Refrigeration* (2018), doi: <https://doi.org/10.1016/j.ijrefrig.2018.08.002>

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Highlights

1. ANFIS is developed applying different evolutionary algorithms to predict pool boiling heat transfer.
2. A number of 405 empirical data were obtained from literature to train and test the models.
3. This model is an easy-to-use tool to estimate nucleate pool boiling heat transfer properties of refrigerant-oil mixtures with nanoparticles.

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