

## Accepted Manuscript

Energy optimization for single mixed refrigerant natural gas liquefaction processes using the metaheuristic vortex search algorithm

Wahid Ali, Muhammad Abdul Qyyum, Kinza Qadeer, Moonyong Lee

PII: S1359-4311(17)34535-0  
DOI: <https://doi.org/10.1016/j.applthermaleng.2017.10.078>  
Reference: ATE 11276

To appear in: *Applied Thermal Engineering*

Received Date: 10 July 2017  
Revised Date: 15 September 2017  
Accepted Date: 12 October 2017

Please cite this article as: W. Ali, M.A. Qyyum, K. Qadeer, M. Lee, Energy optimization for single mixed refrigerant natural gas liquefaction processes using the metaheuristic vortex search algorithm, *Applied Thermal Engineering* (2017), doi: <https://doi.org/10.1016/j.applthermaleng.2017.10.078>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**Energy optimization for single mixed refrigerant natural gas liquefaction  
processes using the metaheuristic vortex search algorithm**

**Wahid Ali<sup>a,1</sup>, Muhammad Abdul Qyum<sup>a,1</sup>, Kinza Qadeer<sup>a</sup>, Moonyong Lee<sup>a,\*</sup>**

*<sup>a</sup> School of Chemical Engineering, Yeungnam University, Gyeongsan 712-749, Rep. of Korea.*

Submitted to *Applied Thermal Engineering Journal*

<sup>1</sup>These two authors contributed equally to this work.

\*Correspondence concerning this article should be addressed to:

Prof. Moonyong Lee

Email: mynlee@yu.ac.kr

Telephone: +82-53-810-2512

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/7046527>

Download Persian Version:

<https://daneshyari.com/article/7046527>

[Daneshyari.com](https://daneshyari.com)