

Kanchan Chowdhury

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papers

335

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ext. papers

395

ext. citations

3.8

avg, IF

4.47

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 36 | Exergy analysis of helium liquefaction systems based on modified Claude cycle with two-expanders. <i>Cryogenics</i> , 2011 , 51, 287-294 | 1.8 | 26 |
| 35 | Performance of Cryogenic Heat Exchangers with Heat Leak from the Surroundings 1984 , 273-280 | | 22 |
| 34 | Role of expanders in helium liquefaction cycles: Parametric studies using Collins cycle. <i>Fusion Engineering and Design</i> , 2011 , 86, 318-324 | 1.7 | 21 |
| 33 | LNG boil-off gas reliquefaction by Brayton refrigeration system [Part 1: Exergy analysis and design of the basic configuration. <i>Energy</i> , 2019 , 176, 753-764 | 7.9 | 20 |
| 32 | Comparisons of thermodynamic and economic performances of cryogenic air separation plants designed for external and internal compression of oxygen. <i>Applied Thermal Engineering</i> , 2019 , 160, 1140-1158 | 5.8 | 20 |
| 31 | Exergy based analysis on different expander arrangements in helium liquefiers. <i>International Journal of Refrigeration</i> , 2012 , 35, 1188-1199 | 3.8 | 20 |
| 30 | Effect of Flow Maldistribution on Multipassage Heat Exchanger Performance. <i>Heat Transfer Engineering</i> , 1985 , 6, 45-54 | 1.7 | 20 |
| 29 | Customization and validation of a commercial process simulator for dynamic simulation of Helium liquefier. <i>Energy</i> , 2011 , 36, 3204-3214 | 7.9 | 18 |
| 28 | Application of exergy analysis in designing helium liquefiers. <i>Energy</i> , 2012 , 37, 207-219 | 7.9 | 17 |
| 27 | Role of heat exchangers in helium liquefaction cycles: Simulation studies using Collins cycle. <i>Fusion Engineering and Design</i> , 2012 , 87, 39-46 | 1.7 | 17 |
| 26 | LNG boil-off gas reliquefaction by Brayton refrigeration system [Part 2: Improvements over basic configuration. <i>Energy</i> , 2019 , 176, 861-873 | 7.9 | 15 |
| 25 | Process configuration of Liquid-nitrogen Energy Storage System (LESS) for maximum turnaround efficiency. <i>Cryogenics</i> , 2017 , 88, 132-142 | 1.8 | 14 |
| 24 | Fires in Indian hospitals: root cause analysis and recommendations for their prevention. <i>Journal of Clinical Anesthesia</i> , 2014 , 26, 414-24 | 1.9 | 13 |
| 23 | Zero methane loss in reliquefaction of boil-off gas in liquefied natural gas carrier ships by using packed bed distillation in reverse Brayton system. <i>Journal of Cleaner Production</i> , 2020 , 260, 121037 | 10.3 | 12 |
| 22 | Use of dual pressure Claude liquefaction cycles for complete and energy-efficient reliquefaction of boil-off gas in LNG carrier ships. <i>Energy</i> , 2020 , 198, 117345 | 7.9 | 10 |
| 21 | Optimum number of stages and intermediate pressure level for highest exergy efficiency in large helium liquefiers. <i>International Journal of Refrigeration</i> , 2013 , 36, 2438-2457 | 3.8 | 9 |
| 20 | Applicability of equations of state for modeling helium systems. <i>Cryogenics</i> , 2012 , 52, 375-381 | 1.8 | 9 |

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| 19 | Comparison between reverse Brayton and Kapitza based LNG boil-off gas reliquefaction system using exergy analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 171, 012009 | 0.4 | 8 |
| 18 | Saving power by modifying a double column air separation plant to produce high and low purity pressurized gaseous oxygen simultaneously. <i>Energy</i> , 2020 , 210, 118487 | 7.9 | 7 |
| 17 | Enhanced oxygen recovery and energy efficiency in a reconfigured single column air separation unit producing pure and impure oxygen simultaneously. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 162, 108354 | 3.7 | 7 |
| 16 | Evaluating performance of mixed mode multistage helium plants for design and off-design conditions by exergy analysis. <i>International Journal of Refrigeration</i> , 2014 , 38, 46-57 | 3.8 | 6 |
| 15 | Mitigating an increase of specific power consumption in a cryogenic air separation unit at reduced oxygen production. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 171, 012016 | 0.4 | 4 |
| 14 | Exergy Analysis of Different Cold End Configurations for Helium Liquefiers. <i>Journal of Thermal Science and Engineering Applications</i> , 2012 , 4, | 1.9 | 4 |
| 13 | Determining design criteria to reduce power and cost in filling high-pressure oxygen cylinders directly from cryogenic air separation plants. <i>Cryogenics</i> , 2021 , 116, 103299 | 1.8 | 4 |
| 12 | Enhancing generation of green power from the cold of vaporizing LNG at 30 bar by optimising heat exchanger surface area in a multi-staged organic Rankine cycle. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 43, 100930 | 4.7 | 3 |
| 11 | Exergy analysis of large-scale helium liquefiers: Evaluating design trade-offs 2014 , | | 2 |
| 10 | Mitigation of effects of pulsed heat load from fusion devices on helium refrigerator: A novel technique using vapor compression cycle. <i>International Journal of Refrigeration</i> , 2013 , 36, 1776-1789 | 3.8 | 1 |
| 9 | A cycle configuration for large-scale helium refrigerator for fusion devices towards complete mitigation of the effects of pulsed heat load. <i>Fusion Engineering and Design</i> , 2013 , 88, 2972-2982 | 1.7 | 1 |
| 8 | Optimization of UA of heat exchangers and BOG compressor exit pressure of LNG boil-off gas reliquefaction system using exergy analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 101, 012090 | 0.4 | 1 |
| 7 | Identification of critical equipment and determination of operational limits in helium refrigerators under pulsed heat load. <i>Cryogenics</i> , 2014 , 59, 23-37 | 1.8 | 1 |
| 6 | Fatal Accident from an Oxygen Fire in an Indian Steel Plant in 2012: Unresolved Questions 2016 , 205-233 | | 1 |
| 5 | Effect of precooling with transcritical CO ₂ cycle on two types of LNG boil-off gas reliquefaction systems. <i>Journal of Natural Gas Science and Engineering</i> , 2021 , 89, 103876 | 4.6 | 1 |
| 4 | Essential design criteria for safe and efficient operation of an LNG boil-off gas reliquefier under deteriorated performance of system components. <i>Cryogenics</i> , 2021 , 103371 | 1.8 | 1 |
| 3 | Optimizing distribution of heat exchanger surface areas for enhanced power output from vaporizing LNG at 6 bar in an organic Rankine cycle. <i>Thermal Science and Engineering Progress</i> , 2021 , 21, 100779 | 3.6 | 0 |
| 2 | Reducing power consumption in a cryogenic air separation plant for filling oxygen cylinders in-situ by utilizing thermal energy of pumped liquid oxygen. <i>Applied Thermal Engineering</i> , 2021 , 117623 | 5.8 | 0 |

- 1 Strategizing practical implementation of additional condenser-reboilers (CR) to reduce power consumption of a dual purity cryogenic single column gaseous oxygen plant. *Cryogenics*, **2022**, 103496 ^{1.8}