

Kanchan Chowdhury

List of Publications by Year in descending order

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papers

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citations

706676

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docs citations

36
times ranked

267
citing authors

#	ARTICLE	IF	CITATIONS
1	Strategizing practical implementation of additional condenser-reboilers (CR) to reduce power consumption of a dual purity cryogenic single column gaseous oxygen plant. <i>Cryogenics</i> , 2022, , 103496.	0.9	0
2	Enhancing generation of green power from the cold of vaporizing LNG at 30Åbar by optimising heat exchanger surface area in a multi-staged organic Rankine cycle. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 43, 100930.	1.7	5
3	Optimizing distribution of heat exchanger surface areas for enhanced power output from vaporizing LNG at 6Åbar in an organic Rankine cycle. <i>Thermal Science and Engineering Progress</i> , 2021, 21, 100779.	1.3	1
4	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.	2.1	10
5	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.	1.8	12
6	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.	0.9	5
7	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.	3.0	4
8	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.	0.9	1
9	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.	4.5	12
10	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.	4.6	22
11	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.	4.5	18
12	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, 114025.	3.0	28
13	LNG boil-off gas reliquefaction by Brayton refrigeration system “ Part 2: Improvements over basic configuration. <i>Energy</i> , 2019, 176, 861-873.	4.5	20
14	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.	4.5	33
15	Process configuration of Liquid-nitrogen Energy Storage System (LESS) for maximum turnaround efficiency. <i>Cryogenics</i> , 2017, 88, 132-142.	0.9	16
16	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.	0.3	9
17	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.	0.3	5
18	Fatal Accident from an Oxygen Fire in an Indian Steel Plant in 2012: Unresolved Questions. , 2016, , 205-233.		1

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19	Optimization of UA of heat exchangers and BOG compressor exit pressure of LNG boil-off gas reliquefaction system using exergy analysis. IOP Conference Series: Materials Science and Engineering, 2015, 101, 012090.	0.3	1
20	Identification of critical equipment and determination of operational limits in helium refrigerators under pulsed heat load. Cryogenics, 2014, 59, 23-37.	0.9	2
21	Evaluating performance of mixed mode multistage helium plants for design and off-design conditions by exergy analysis. International Journal of Refrigeration, 2014, 38, 46-57.	1.8	6
22	Fires in Indian hospitals: root cause analysis and recommendations for their prevention. Journal of Clinical Anesthesia, 2014, 26, 414-424.	0.7	26
23	Exergy analysis of large-scale helium liquefiers: Evaluating design trade-offs. , 2014, , .		2
24	Optimum number of stages and intermediate pressure level for highest exergy efficiency in large helium liquefiers. International Journal of Refrigeration, 2013, 36, 2438-2457.	1.8	11
25	Mitigation of effects of pulsed heat load from fusion devices on helium refrigerator: A novel technique using vapor compression cycle. International Journal of Refrigeration, 2013, 36, 1776-1789.	1.8	3
26	A cycle configuration for large-scale helium refrigerator for fusion devices towards complete mitigation of the effects of pulsed heat load. Fusion Engineering and Design, 2013, 88, 2972-2982.	1.0	4
27	Exergy Analysis of Different Cold End Configurations for Helium Liquefiers. Journal of Thermal Science and Engineering Applications, 2012, 4, .	0.8	4
28	Role of heat exchangers in helium liquefaction cycles: Simulation studies using Collins cycle. Fusion Engineering and Design, 2012, 87, 39-46.	1.0	20
29	Applicability of equations of state for modeling helium systems. Cryogenics, 2012, 52, 375-381.	0.9	12
30	Exergy based analysis on different expander arrangements in helium liquefiers. International Journal of Refrigeration, 2012, 35, 1188-1199.	1.8	23
31	Application of exergy analysis in designing helium liquefiers. Energy, 2012, 37, 207-219.	4.5	22
32	Exergy analysis of helium liquefaction systems based on modified Claude cycle with two-expanders. Cryogenics, 2011, 51, 287-294.	0.9	30
33	Customization and validation of a commercial process simulator for dynamic simulation of Helium liquefier. Energy, 2011, 36, 3204-3214.	4.5	27
34	Role of expanders in helium liquefaction cycles: Parametric studies using Collins cycle. Fusion Engineering and Design, 2011, 86, 318-324.	1.0	23
35	Effect of Flow Maldistribution on Multipassage Heat Exchanger Performance. Heat Transfer Engineering, 1985, 6, 45-54.	1.2	23
36	Performance of Cryogenic Heat Exchangers with Heat Leak from the Surroundings. , 1984, , 273-280.		27