Parthasarathi Ghosh

List of Publications by Year
in descending order

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39	371	858243	939365
papers	citations	12	18
		h-index	g-index

39	39	39	224
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advanced exergy analysis of reverse Brayton cryocooler for 10 kW cooling capacity at 65 K. IOP Conference Series: Materials Science and Engineering, 2022, 1240, 012124.	0.3	1
2	Numerical Investigation on Unstable Direct Contact Condensation of Steam in Subcooled Water. Heat Transfer Engineering, 2021, 42, 592-612.	1.2	4
3	Exergetic analysis of reverse Brayton cryocooler with different turbine arrangements for HTS power cables. Cryogenics, 2021, 115, 103262.	0.9	6
4	Acoustic cavitation at low gas pressures in PZT-based ultrasonic systems. Ultrasonics Sonochemistry, 2021, 73, 105493.	3.8	9
5	Exergoeconomic Evaluation and Optimization of Reverse Brayton Refrigerator. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	2
6	Technical, economic and environmental feasibility of resource recovery technologies from wastewater. Science of the Total Environment, 2021, 796, 149022.	3.9	45
7	Acoustic cavitation-induced shear: a mini-review. Biophysical Reviews, 2021, 13, 1229-1243.	1.5	5
8	Performance characteristics map using exergy analysis of reverse Brayton cryocooler for HTS applications: Selection, Optimization, Design and Operational guidelines. Cryogenics, 2020, 106, 103024.	0.9	8
9	Numerical studies on unstable oscillatory direct contact condensation (DCC) of oxygen vapor jets in subcooled flowing liquid oxygen. Cryogenics, 2020, 111, 103176.	0.9	7
10	Trailing edge loss analysis of high-speed cryogenic microturbines used in helium applications. Cryogenics, 2020, 106, 103052.	0.9	1
11	Computational Fluid Dynamics Studies on Unstable Oscillatory Direct Contact Condensation of Subsonic Steam Jets in Water Cross-Flow. Journal of Heat Transfer, 2020, 142, .	1.2	8
12	A Mathematical Model for the Characterization of Superconducting Level Sensors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-11.	1.1	2
13	CFD Analysis of Direct Contact Condensation (DCC) of Subsonic Steam Jets in a Cross-Flow of Water Using a Two-Fluid Model. , 2018, , .		2
14	Numerical investigations on direct contact condensation (DCC) of oxygen vapour in a staged combustion cycle based rocket engine. Indian Journal of Cryogenics, 2018, 43, 124.	0.1	4
15	Flow field analysis of high-speed helium turboexpander for cryogenic refrigeration and liquefaction cycles. Cryogenics, 2017, 82, 1-14.	0.9	20
16	Numerical Studies on Direct Contact Condensation (DCC) of Subsonic Vapor/Gas Jets in Subcooled Flowing Liquid. , 2017, , .		1
17	Effect of trailing edge thickness on the performance of a helium turboexpander used in cryogenic refrigeration and liquefaction cycles. IOP Conference Series: Materials Science and Engineering, 2017, 171, 012021.	0.3	1
18	Process configuration of Liquid-nitrogen Energy Storage System (LESS) for maximum turnaround efficiency. Cryogenics, 2017, 88, 132-142.	0.9	16

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19	Effect of rotation on the flow behaviour in a high-speed cryogenic microturbine used in helium applications. International Journal of Refrigeration, 2017, 81, 111-122.	1.8	12
20	Performance analysis of cryocoolers based on reverse Brayton cycle and its modifications for cooling HTS devices. Indian Journal of Cryogenics, 2017, 42, 61.	0.1	4
21	Helium Turboexpander for Cryogenic Refrigeration and Liquefaction Cycles: Transient Analysis of Rotorâ€“Stator Interaction. , 2016, , .		3
22	Influence of thermophysical properties of working fluid on the design of cryogenic turboexpanders using n_sd_sdiagram. IOP Conference Series: Materials Science and Engineering, 2015, 101, 012179.	0.3	3
23	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
24	CFD Analysis of Turbo Expander for Cryogenic Refrigeration and Liquefaction Cycles. Physics Procedia, 2015, 67, 373-378.	1.2	15
25	Identification of critical equipment and determination of operational limits in helium refrigerators under pulsed heat load. Cryogenics, 2014, 59, 23-37.	0.9	2
26	Exergy analysis of large-scale helium liquefiers: Evaluating design trade-offs. , 2014, , .		2
27	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
28	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
29	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
30	Exergy Analysis of Different Cold End Configurations for Helium Liquefiers. Journal of Thermal Science and Engineering Applications, 2012, 4, .	0.8	4
31	Role of heat exchangers in helium liquefaction cycles: Simulation studies using Collins cycle. Fusion Engineering and Design, 2012, 87, 39-46.	1.0	20
32	Applicability of equations of state for modeling helium systems. Cryogenics, 2012, 52, 375-381.	0.9	12
33	Exergy based analysis on different expander arrangements in helium liquefiers. International Journal of Refrigeration, 2012, 35, 1188-1199.	1.8	23
34	Application of exergy analysis in designing helium liquefiers. Energy, 2012, 37, 207-219.	4.5	22
35	Exergy analysis of helium liquefaction systems based on modified Claude cycle with two-expanders. Cryogenics, 2011, 51, 287-294.	0.9	30
36	Customization and validation of a commercial process simulator for dynamic simulation of Helium liquefier. Energy, 2011, 36, 3204-3214.	4.5	27

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37	Application of parallel heat exchangers in helium refrigerators for mitigating effects of pulsed load from fusion devices. Fusion Engineering and Design, 2011, 86, 296-306.	1.0	8
38	Role of expanders in helium liquefaction cycles: Parametric studies using Collins cycle. Fusion Engineering and Design, 2011, 86, 318-324.	1.0	23
39	Analysis of modified Reverse Brayton cycle-based systems for cold generation at low-temperature using exergoeconomics. Journal of Energy Resources Technology, Transactions of the ASME, 0, , 1-36.	1.4	0