

# Seungwhan Baek

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

316  
citations

933410

10  
h-index

888047

17  
g-index

23  
all docs

23  
docs citations

23  
times ranked

200  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of flow maldistribution and axial conduction on compact microchannel heat exchanger. Cryogenics, 2014, 60, 49-61.	1.7	58
2	Development of highly effective cryogenic printed circuit heat exchanger (PCHE) with low axial conduction. Cryogenics, 2012, 52, 366-374.	1.7	55
3	Hydraulic performance of a microchannel PCHE. Applied Thermal Engineering, 2010, 30, 2157-2162.	6.0	45
4	Investigation of the ejector application in the cryogenic Joule-Thomson refrigeration system. Energy, 2018, 165, 269-280.	8.8	22
5	Novel design of LNG (liquefied natural gas) reliquefaction process. Energy Conversion and Management, 2011, 52, 2807-2814.	9.2	21
6	Flow boiling heat transfer of R123/R134a mixture in a microchannel. Experimental Thermal and Fluid Science, 2018, 99, 474-486.	2.7	16
7	Investigation of ejector-equipped Joule-Thomson refrigerator operating below 77 K. International Journal of Refrigeration, 2017, 78, 93-107.	3.4	15
8	Heat and mass transfer of submerged helium injection in liquid oxygen vessel. Cryogenics, 2014, 64, 272-282.	1.7	13
9	Heat transfer coefficient measurement of LN2 and GN2 in a microchannel at low Reynolds flow. International Journal of Heat and Mass Transfer, 2018, 127, 222-233.	4.8	11
10	Pressure drop characteristics of cryogenic mixed refrigerant at macro and micro channel heat exchangers. Cryogenics, 2012, 52, 689-694.	1.7	10
11	A new method for heat transfer coefficient measurements of single-phase fluids during laminar flow in microchannels. International Journal of Heat and Mass Transfer, 2020, 157, 119891.	4.8	10
12	Partial flow compensation by transverse bypass configuration in multi-channel cryogenic compact heat exchanger. Cryogenics, 2012, 52, 19-26.	1.7	9
13	Investigation of two-phase heat transfer coefficients of argon-freon cryogenic mixed refrigerants. Cryogenics, 2014, 64, 29-39.	1.7	9
14	Development of a closed-loop J-T cryoablation device with a long cooling area and multiple expansion parts. Medical Engineering and Physics, 2014, 36, 1464-1472.	1.7	6
15	Design of high-efficiency Joule-Thomson cycles for high-temperature superconductor power cable cooling. Cryogenics, 2018, 93, 17-25.	1.7	6
16	The Tests of 1 kW Diesel Reformer and Solid Oxide Fuel Cell System. Journal of Fuel Cell Science and Technology, 2010, 7, .	0.8	3
17	Elongating axial conduction path design to enhance performance of cryogenic compact pche (printed) Tj ETQq1 1 0.784314, ggBT /Over		
18	Experimental approach to suppress two-phase flow in cryogenic liquid transfer process with the inverted U-bend pipe. Experimental Thermal and Fluid Science, 2012, 42, 116-124.	2.7	2

#	ARTICLE	IF	CITATIONS
19	Preparatory Tests for 1kW Diesel-Powered SOFC Systems. , 2008, , .		1
20	Thermal performance evaluation and analysis of helium heat exchanger for cryogenic propellant launch vehicle. Cryogenics, 2022, 124, 103492.	1.7	1
21	Characterization of PSCF3737 for Intermediate Temperature-Operating Solid Oxide Fuel Cell (IT-SOFC). , 2008, , .		0
22	Investigation of Two Phase Heat Transfer Coefficients of Cryogenic Mixed Refrigerants. , 2013, , .		0
23	Microchannel heat exchanger for two-phase Mixed Refrigerant Joule Thomson process. , 2014, , .		0