

Stefan S Bertsch

List of Publications by Year in descending order

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14
papers

1,742
citations

623734
14
h-index

1058476
14
g-index

14
all docs

14
docs citations

14
times ranked

1009
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced high temperature heat pump configurations using low GWP refrigerants for industrial waste heat recovery: A comprehensive study. Energy Conversion and Management, 2021, 229, 113752.	9.2	71
2	Techno-economic analysis of high-temperature heat pumps with low-global warming potential refrigerants for upgrading waste heat up to 150°C. Energy Conversion and Management, 2020, 226, 113488.	9.2	60
3	High temperature heat pumps: Market overview, state of the art, research status, refrigerants, and application potentials. Energy, 2018, 152, 985-1010.	8.8	345
4	Excess heat recovery: An invisible energy resource for the Swiss industry sector. Applied Energy, 2018, 228, 390-408.	10.1	36
5	Theoretical analysis of steam generation methods - Energy, CO ₂ emission, and cost analysis. Energy, 2017, 129, 114-121.	8.8	28
6	Small-scale turbocompressors for wide-range operation with large tip-clearances for a two-stage heat pump concept. International Journal of Refrigeration, 2016, 69, 285-302.	3.4	23
7	Multi-temperature heat pumps: A literature review. International Journal of Refrigeration, 2016, 69, 437-465.	3.4	82
8	Energy consumption of cold climate heat pumps in different climates – Comparison of single-stage and two-stage systems. International Journal of Refrigeration, 2016, 62, 193-206.	3.4	15
9	Theoretical and experimental investigation of startup and shutdown behavior of residential heat pumps. International Journal of Refrigeration, 2012, 35, 2138-2149.	3.4	36
10	Effects of heat flux, mass flux, vapor quality, and saturation temperature on flow boiling heat transfer in microchannels. International Journal of Multiphase Flow, 2009, 35, 142-154.	3.4	186
11	A composite heat transfer correlation for saturated flow boiling in small channels. International Journal of Heat and Mass Transfer, 2009, 52, 2110-2118.	4.8	357
12	Refrigerant flow boiling heat transfer in parallel microchannels as a function of local vapor quality. International Journal of Heat and Mass Transfer, 2008, 51, 4775-4787.	4.8	162
13	Two-stage air-source heat pump for residential heating and cooling applications in northern U.S. climates. International Journal of Refrigeration, 2008, 31, 1282-1292.	3.4	228
14	Review and Comparative Analysis of Studies on Saturated Flow Boiling in Small Channels. Nanoscale and Microscale Thermophysical Engineering, 2008, 12, 187-227.	2.6	113