

# Stefan S Bertsch

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8790818/publications.pdf>

Version: 2024-02-01

14  
papers

1,742  
citations

623699

14  
h-index

1058452

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. <i>Energy Conversion and Management</i> , 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. <i>Energy Conversion and Management</i> , 2020, 226, 113488.	9.2	60
3	High temperature heat pumps: Market overview, state of the art, research status, refrigerants, and application potentials. <i>Energy</i> , 2018, 152, 985-1010.	8.8	345
4	Excess heat recovery: An invisible energy resource for the Swiss industry sector. <i>Applied Energy</i> , 2018, 228, 390-408.	10.1	36
5	Theoretical analysis of steam generation methods - Energy, CO <sub>2</sub> emission, and cost analysis. <i>Energy</i> , 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. <i>International Journal of Refrigeration</i> , 2016, 69, 285-302.	3.4	23
7	Multi-temperature heat pumps: A literature review. <i>International Journal of Refrigeration</i> , 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. <i>International Journal of Refrigeration</i> , 2016, 62, 193-206.	3.4	15
9	Theoretical and experimental investigation of startup and shutdown behavior of residential heat pumps. <i>International Journal of Refrigeration</i> , 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. <i>International Journal of Multiphase Flow</i> , 2009, 35, 142-154.	3.4	186
11	A composite heat transfer correlation for saturated flow boiling in small channels. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 2110-2118.	4.8	357
12	Refrigerant flow boiling heat transfer in parallel microchannels as a function of local vapor quality. <i>International Journal of Heat and Mass Transfer</i> , 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. <i>International Journal of Refrigeration</i> , 2008, 31, 1282-1292.	3.4	228
14	Review and Comparative Analysis of Studies on Saturated Flow Boiling in Small Channels. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2008, 12, 187-227.	2.6	113