

# Shuangtao Chen

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50  
papers

331  
citations

11  
h-index

14  
g-index

51  
ext. papers

466  
ext. citations

3.5  
avg, IF

3.46  
L-index

#	Paper	IF	Citations
50	Thermodynamic Analysis of Air-Cycle Refrigeration Systems with Expansion Work Recovery for Compartment Air Conditioning. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 5287	2.6	0
49	Study on coupling performance of turbo-cooler in aircraft environmental control system. <i>Energy</i> , <b>2021</b> , 224, 120029	7.9	3
48	Application of Gas Foil Bearings in China. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6210	2.6	2
47	Effects of cooling-recovery venting on the performance of cryo-compressed hydrogen storage for automotive applications. <i>Applied Energy</i> , <b>2020</b> , 269, 115143	10.7	4
46	Distributed Joule-Thomson effects and convective heat transfer of high-pressure argon gas flow in helically coiled mini-tubes. <i>Applied Thermal Engineering</i> , <b>2020</b> , 181, 115955	5.8	1
45	Thermodynamic analysis of the para-to-ortho hydrogen conversion in cryo-compressed hydrogen vessels for automotive applications. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 24928-24937	6.7	3
44	Numerical study on two-phase expansion performance and quantitative analysis of wetness loss in cryogenic turbo-expander. <i>Cryogenics</i> , <b>2020</b> , 110, 103123	1.8	3
43	Study on a high-speed oil-free pump with fluid hydrodynamic lubrication. <i>Advances in Mechanical Engineering</i> , <b>2020</b> , 12, 168781402094546	1.2	1
42	Characteristics of frictional pressure drop of two-phase nitrogen flow in horizontal smooth mini channels in diabatic/adiabatic conditions. <i>Applied Thermal Engineering</i> , <b>2019</b> , 162, 114312	5.8	2
41	Numerical studies of nitrogen spontaneous condensation flow in laval nozzles using varying droplet growth models. <i>International Journal of Multiphase Flow</i> , <b>2019</b> , 121, 103118	3.6	3
40	Numerical studies on two-phase flow in cryogenic radial-inflow turbo-expander using varying condensation models. <i>Applied Thermal Engineering</i> , <b>2019</b> , 156, 168-177	5.8	1
39	Non-equilibrium spontaneous condensation flow in cryogenic turbo-expander based on mean streamline off-design method. <i>Cryogenics</i> , <b>2019</b> , 98, 18-28	1.8	6
38	Transient cooling and operational performance of the cryogenic part in reverse Brayton air refrigerator. <i>Energy</i> , <b>2019</b> , 167, 921-938	7.9	13
37	Experimental study on the heat transfer characteristics of saturated liquid nitrogen flow boiling in small-diameter horizontal tubes. <i>Experimental Thermal and Fluid Science</i> , <b>2019</b> , 101, 27-36	3	7
36	Off-design performance analysis of cryogenic turbo-expander based on mathematic prediction and experiment research. <i>Applied Thermal Engineering</i> , <b>2018</b> , 138, 873-887	5.8	5
35	Roles of Point Defects in Thermal Transport in Perovskite Barium Stannate. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 11482-11490	3.8	5
34	Experimental study of liquid nitrogen spray characteristics in atmospheric environment. <i>Applied Thermal Engineering</i> , <b>2018</b> , 142, 717-722	5.8	16

33	Transient modeling and influence of operating parameters on thermodynamic performance of miniature Joule-Thomson cryocooler. <i>Applied Thermal Engineering</i> , <b>2018</b> , 143, 1093-1100	5.8	6
32	Numerical study on the heat transfer characteristics of oscillating flow in cryogenic regenerators. <i>Cryogenics</i> , <b>2018</b> , 96, 99-107	1.8	2
31	Flow boiling instability of liquid nitrogen in horizontal mini channels. <i>Applied Thermal Engineering</i> , <b>2018</b> , 144, 812-824	5.8	11
30	Numerical studies on the off-design performance of a cryogenic two-phase turbo-expander. <i>Applied Thermal Engineering</i> , <b>2018</b> , 140, 34-42	5.8	9
29	Static characteristics of six pads multilayer protuberant foil thrust bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2017</b> , 231, 158-164	1.4	8
28	Two-phase flow boiling frictional pressure drop of liquid nitrogen in horizontal circular mini-tubes: Experimental investigation and comparison with correlations. <i>Cryogenics</i> , <b>2017</b> , 83, 85-94	1.8	9
27	Evaluation and analysis on the coupling performance of a high-speed turboexpander compressor. <i>Cryogenics</i> , <b>2017</b> , 88, 81-90	1.8	3
26	Effect of impeller blade profile on the cryogenic two-phase turbo-expander performance. <i>Applied Thermal Engineering</i> , <b>2017</b> , 126, 884-891	5.8	9
25	Thermal conductivity of multilayer dielectric films from molecular dynamics simulations. <i>RSC Advances</i> , <b>2017</b> , 7, 26194-26201	3.7	3
24	Elastro-hydrodynamic lubrication model of multi-decked foil thrust bearing with copper wire support. <i>Journal of Mechanical Science and Technology</i> , <b>2017</b> , 31, 4371-4379	1.6	5
23	Numerical and experimental study on the dynamic characteristics of the foil journal bearing with double-layer protuberant support. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2016</b> , 10, JAMDSM0027-JAMDSM0027	0.6	2
22	Experimental study on multi-decked protuberant foil thrust bearing with different number of thrust pads. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2016</b> , 10, JAMDSM0106-JAMDSM0106	0.6	1
21	Study on the coupling performance of a turboexpander compressor applied in cryogenic reverse Brayton air refrigerator. <i>Energy Conversion and Management</i> , <b>2016</b> , 122, 386-399	10.6	17
20	Comparative studies on double-layered protuberant foil bearing and Hydresil foil bearing. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2016</b> , 230, 212-221	1.4	2
19	Numerical study on the spontaneous condensation flow in an air cryogenic turbo-expander using equilibrium and non-equilibrium models. <i>Cryogenics</i> , <b>2016</b> , 73, 42-52	1.8	11
18	Preliminary experimental study on static loading characteristics of multi-decked protuberant foil thrust bearing. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2016</b> , 10, JAMDSM0008-JAMDSM0008	0.6	1
17	Numerical modeling of recuperative cryogenic matrix heat exchangers and the experimental validation. <i>International Journal of Thermal Sciences</i> , <b>2016</b> , 104, 330-341	4.1	5
16	Numerical investigation of nitrogen spontaneous condensation flow in cryogenic nozzles using varying nucleation theories. <i>Cryogenics</i> , <b>2015</b> , 68, 19-29	1.8	10

15	The measurement of thermodynamic performance in cryogenic two-phase turbo-expander. <i>Cryogenics</i> , <b>2015</b> , 70, 76-84	1.8	22
14	Numerical study on tilting pad journal gas bearing with variable stiffness springs. <i>Journal of Mechanical Science and Technology</i> , <b>2015</b> , 29, 3059-3067	1.6	3
13	Study on the Dynamic Performance of the Helium Turboexpander for EAST Subsystems. <i>Plasma Science and Technology</i> , <b>2015</b> , 17, 517-523	1.5	2
12	Wetness loss prediction for a wet-type cryogenic turbo-expander based on 3-D numerical simulation. <i>Applied Thermal Engineering</i> , <b>2015</b> , 91, 1032-1039	5.8	12
11	Study on the matching performance of a low temperature reverse Brayton air refrigerator. <i>Energy Conversion and Management</i> , <b>2015</b> , 89, 339-348	10.6	15
10	Study on double-layer protuberant gas foil journal bearings with different foil layers arrangement. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2015</b> , 9, JAMDSM0014-JAMDSM0014	0.6	3
9	Experimental study on bump-foil gas bearing with different diametric clearance configurations. <i>Journal of Mechanical Science and Technology</i> , <b>2015</b> , 29, 2089-2095	1.6	12
8	Numerical study on the load direction effect on the performance of tilting pad-journal gas bearing. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2014</b> , 8, JAMDSM0025-JAMDSM0025	0.6	0
7	Effects of bearing clearance and supporting stiffness on performances of rotor-bearing system with multi-decked protuberant gas foil journal bearing. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2014</b> , 228, 780-788	1.4	17
6	Experimental Investigation on the Multi-Decked Protuberant Gas Foil Journal Bearing. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2013</b> , 7, 791-799	0.6	6
5	Calculation of the Critical Speed and Stability Analysis of Cryogenic Turboexpanders with Different Structures. <i>Plasma Science and Technology</i> , <b>2012</b> , 14, 919-926	1.5	3
4	Experimental Study on Cryogenic Counterflow Woven-Wire Screen Matrix Heat Exchanger. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2012</b> , 26, 322-327	1.3	3
3	Static Analysis of Viscoelastic Supported Gas Foil Thrust Bearing with Journal Inclination. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2010</b> , 4, 1210-1220	0.6	1
2	Experimental study on the performance of an aircraft environmental control system. <i>Applied Thermal Engineering</i> , <b>2009</b> , 29, 3284-3288	5.8	39
1	Numerical and experimental studies on the thermal and static characteristics of multi-leaf foil thrust bearing. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 135065012110110	1.4	1