

Kim Ooi

List of Publications by Year in descending order

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85
papers

2,229
citations

218592

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243529

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86
all docs

86
docs citations

86
times ranked

1214
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation on the thermal-hydraulic performance of separated structure steam generator with different tube arrangements. <i>Annals of Nuclear Energy</i> , 2022, 171, 109034.	0.9	1
2	Analysis of the novel multi-vane Revolving Vane compressor – Investigation of vane chattering phenomenon through instantaneous working chamber pressure measurements. <i>International Journal of Refrigeration</i> , 2022, 134, 207-218.	1.8	3
3	Leakage study of a lubricant-free revolving vane compressor. <i>International Journal of Refrigeration</i> , 2021, 124, 122-133.	1.8	8
4	A Review on Sliding Vane and Rolling Piston Compressors. <i>Machines</i> , 2021, 9, 125.	1.2	11
5	Analysis of the novel multi-vane Revolving Vane compressor – Theoretical modelling and experimental investigations. <i>International Journal of Refrigeration</i> , 2021, 131, 592-603.	1.8	3
6	Heat transfer enhancement through periodic flow area variations in microchannels. <i>International Communications in Heat and Mass Transfer</i> , 2020, 111, 104456.	2.9	16
7	Torque Characteristics of the Revolving Vane Air Expander. <i>Machines</i> , 2020, 8, 58.	1.2	0
8	Performance analysis of a U-Vane compressor. <i>Applied Thermal Engineering</i> , 2020, 178, 115570.	3.0	7
9	Introduction to Coupled Vane compressor: Mathematical modelling with validation. <i>International Journal of Refrigeration</i> , 2020, 117, 23-32.	1.8	11
10	Dynamics of droplet in flow-focusing microchannel under AC electric fields. <i>International Journal of Multiphase Flow</i> , 2020, 125, 103212.	1.6	9
11	Comprehensive evaluation of low-grade solar trigeneration system by photovoltaic-thermal collectors. <i>Energy Conversion and Management</i> , 2020, 215, 112895.	4.4	27
12	Investigation of electroosmotically induced pressure gradient in rectangular capillaries. <i>International Journal of Engineering Science</i> , 2019, 145, 103172.	2.7	1
13	Electric Scissors for Precise Generation of Organic Droplets in Microfluidics: A Universal Approach that Goes beyond Surface Wettability. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25643-25650.	1.5	11
14	Precise morphology control and fast merging of a complex multi-emulsion system: the effects of AC electric fields. <i>Soft Matter</i> , 2019, 15, 5614-5625.	1.2	10
15	Dynamic characteristics of rolling piston machines. , 2019, , 263-289.		1
16	Thermal-hydraulic performance of a tapered microchannel. <i>International Communications in Heat and Mass Transfer</i> , 2018, 94, 53-60.	2.9	14
17	Magnetic Nanorobots, Generating Vortexes Inside Nanoliter Droplets for Effective Mixing. <i>Advanced Materials Technologies</i> , 2018, 3, 1700312.	3.0	32
18	Analysis of the novel cross vane expander-compressor: Mathematical modelling and experimental study. <i>Energy</i> , 2018, 145, 626-637.	4.5	21

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19	Single-phase convective heat transfer performance of wavy microchannels in macro geometry. Applied Thermal Engineering, 2018, 141, 675-687.	3.0	20
20	Scale-inspired enhanced microscale heat transfer in macro geometry. International Journal of Heat and Mass Transfer, 2017, 113, 141-152.	2.5	6
21	Investigation of effect of protrusion height on microscale heat transfer and fluid flow in macro geometries. Applied Thermal Engineering, 2017, 118, 244-255.	3.0	7
22	Wavy-Channel for Microscale Heat Transfer in Macro Geometries. , 2017, , .		1
23	Thorny Durian-inspired enhanced microscale heat transfer in macro geometry. , 2017, , .		1
24	Exergy Analysis of the Revolving Vane Compressed Air Engine. International Journal of Rotating Machinery, 2016, 2016, 1-8.	0.8	2
25	Nature-inspired Inverted Fish Scale microscale passages for enhanced heat transfer. International Journal of Thermal Sciences, 2016, 106, 18-31.	2.6	21
26	Adsorption Characteristics of Modified MIL-101(Cr) for Gas (Mainly CH ₄) Storage Applications. , 2015, , .		1
27	Expansion Power Recovery in Refrigeration Systems. Advances in Mechatronics and Mechanical Engineering, 2015, , 720-751.	1.0	0
28	Comparison and performance analysis of the novel revolving vane expander design variants in low and medium pressure applications. Energy, 2014, 78, 747-757.	4.5	9
29	One dimensional model of an ejector with special attention to Fanno flow within the mixing chamber. Applied Thermal Engineering, 2014, 65, 226-235.	3.0	31
30	Nature-inspired enhanced microscale heat transfer in macro geometry. , 2014, , .		3
31	Experimental study of fixed-vane revolving vane compressor. Applied Thermal Engineering, 2014, 62, 207-214.	3.0	11
32	Electrokinetic Two-Phase Flows. , 2014, , 1-12.		0
33	Economic analysis of the application of expanders in medium scale air-conditioners with conventional refrigerants, R1234yf and CO ₂ . International Journal of Refrigeration, 2013, 36, 1472-1482.	1.8	42
34	Predicting multiple combination of parameters for designing a porous fin subjected to a given temperature requirement. Energy Conversion and Management, 2013, 66, 211-219.	4.4	75
35	Analytical models for the computation and optimization of single and double glazing flat plate solar collectors with normal and small air gap spacing. Applied Energy, 2013, 104, 392-399.	5.1	57
36	A numerical and experimental investigation on microscale heat transfer effect in the combined entry region in macro geometries. International Journal of Thermal Sciences, 2013, 68, 8-19.	2.6	20

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37	Experimental investigations of the revolving vane (RV-I) expander. Applied Thermal Engineering, 2013, 50, 393-400.	3.0	22
38	Analysis of the Revolving Vane (RV-0) expander, part 2: Verifications of theoretical models. International Journal of Refrigeration, 2012, 35, 1744-1756.	1.8	15
39	Analysis of the revolving vane (RV-0) expander, Part 1: Experimental investigations. International Journal of Refrigeration, 2012, 35, 1734-1743.	1.8	16
40	Microscale heat transfer in macro geometries. , 2012, , .		0
41	Experimental investigation of the reciprocating ball pump (RBP). Medical Engineering and Physics, 2012, 34, 1101-1108.	0.8	1
42	A novel revolving vane compressor with a fixed-vane. International Journal of Refrigeration, 2011, 34, 1980-1988.	1.8	14
43	Heat transfer in compression chamber of a revolving vane (RV) compressor. Applied Thermal Engineering, 2011, 31, 1519-1526.	3.0	22
44	Journal bearings design for a novel revolving vane compressor. International Journal of Refrigeration, 2011, 34, 94-104.	1.8	18
45	Analytical study of the endface friction of the revolving vane mechanism. International Journal of Refrigeration, 2011, 34, 1276-1285.	1.8	18
46	Design analysis of the novel Revolving Vane expander in a transcritical carbon dioxide refrigeration system. International Journal of Refrigeration, 2010, 33, 675-685.	1.8	31
47	Theoretical study of a novel refrigeration compressor – Part I: Design of the revolving vane (RV) compressor and its frictional losses. International Journal of Refrigeration, 2009, 32, 1092-1102.	1.8	56
48	Theoretical study of a novel refrigeration compressor- Part III: Leakage loss of the revolving vane (RV) compressor and a comparison with that of the rolling piston type. International Journal of Refrigeration, 2009, 32, 945-952.	1.8	44
49	Theoretical study of a novel refrigeration compressor – Part II: Performance of a rotating discharge valve in the revolving vane (RV) compressor. International Journal of Refrigeration, 2009, 32, 1103-1111.	1.8	41
50	Experimental study of the Revolving Vane (RV) compressor. Applied Thermal Engineering, 2009, 29, 3235-3245.	3.0	29
51	Assessment of a rotary compressor performance operating at transcritical carbon dioxide cycles. Applied Thermal Engineering, 2008, 28, 1160-1167.	3.0	21
52	Liquid–Liquid Stratified Flow in Microchannels. , 2008, , 1022-1031.		0
53	Electro-osmotic control of the interface position of two-liquid flow through a microchannel. Journal of Micromechanics and Microengineering, 2007, 17, 358-366.	1.5	42
54	Characterization of electroosmotic flow in rectangular microchannels. International Journal of Heat and Mass Transfer, 2007, 50, 3115-3121.	2.5	41

#	ARTICLE	IF	CITATIONS
55	Investigation of active interface control of pressure driven two-fluid flow in microchannels. Sensors and Actuators A: Physical, 2007, 133, 323-328.	2.0	7
56	Numerical and In Vitro Investigations of Pressure Rise in a New Hydrodynamic Blood Bearing. Artificial Organs, 2007, 31, 434-440.	1.0	7
57	Dynamic aspects of electroosmotic flow. Microfluidics and Nanofluidics, 2006, 2, 205-214.	1.0	11
58	Analytical effective length study of a flat plate heat pipe using point source approach. Applied Thermal Engineering, 2005, 25, 2272-2284.	3.0	20
59	Two-fluid electroosmotic flow in microchannels. Journal of Colloid and Interface Science, 2005, 284, 306-314.	5.0	103
60	Developing electro-osmotic flow in closed-end micro-channels. International Journal of Engineering Science, 2005, 43, 1349-1362.	2.7	24
61	Electroosmotic flow in irregular shape microchannels. International Journal of Engineering Science, 2005, 43, 1450-1463.	2.7	21
62	Numerical simulation of two-fluid electroosmotic flow in microchannels. International Journal of Heat and Mass Transfer, 2005, 48, 5103-5111.	2.5	31
63	Transient two-liquid electroosmotic flow with electric charges at the interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 266, 117-128.	2.3	57
64	Design optimization of a rolling piston compressor for refrigerators. Applied Thermal Engineering, 2005, 25, 813-829.	3.0	60
65	Interface control of pressure-driven two-fluid flow in microchannels using electroosmosis. Journal of Micromechanics and Microengineering, 2005, 15, 2289-2297.	1.5	39
66	Simulation of a piezo-compressor. Applied Thermal Engineering, 2004, 24, 549-562.	3.0	8
67	Dynamic aspects of electroosmotic flow in rectangular microchannels. International Journal of Engineering Science, 2004, 42, 1459-1481.	2.7	41
68	Frequency-dependent laminar electroosmotic flow in a closed-end rectangular microchannel. Journal of Colloid and Interface Science, 2004, 275, 679-698.	5.0	51
69	Convective heat transfer in a scroll compressor chamber: a 2-D simulation. International Journal of Thermal Sciences, 2004, 43, 677-688.	2.6	50
70	Heat transfer study of a hermetic refrigeration compressor. Applied Thermal Engineering, 2003, 23, 1931-1945.	3.0	47
71	Optimisation of single and double layer counter flow microchannel heat sinks. Applied Thermal Engineering, 2002, 22, 1569-1585.	3.0	82
72	An optimisation study of a hydraulic breaking system. International Journal of Computer Applications in Technology, 2001, 14, 166.	0.3	1

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73	Closed-loop pulsating heat pipe. Applied Thermal Engineering, 2001, 21, 1845-1862.	3.0	243
74	A study of multiple heat sources on a flat plate heat pipe using a point source approach. International Journal of Heat and Mass Transfer, 2000, 43, 3755-3764.	2.5	25
75	Experimental investigation of flow friction for liquid flow in microchannels. International Communications in Heat and Mass Transfer, 2000, 27, 1165-1176.	2.9	191
76	Study on the viscosity of the liquid flowing in microgeometry. Journal of Micromechanics and Microengineering, 1999, 9, 377-384.	1.5	13
77	A computer simulation of a rotary compressor for household refrigerators. Applied Thermal Engineering, 1997, 17, 65-78.	3.0	57
78	Performance of a parallel-wire depth probe. International Communications in Heat and Mass Transfer, 1996, 23, 1003-1009.	2.9	2
79	Evaluation of capillary tube performance for CFC-12 and HFC-134A. International Communications in Heat and Mass Transfer, 1996, 23, 993-1001.	2.9	19
80	Adiabatic capillary tube expansion devices: A comparison of the homogeneous flow and the separated flow models. Applied Thermal Engineering, 1996, 16, 625-634.	3.0	37
81	A calibration technique for a parallel-wire depth probe with conductivity compensation. Experiments in Fluids, 1996, 20, 429-432.	1.1	2
82	Refrigerant flow in capillary tube: An assessment of the two-phase viscosity correlations on model prediction. International Communications in Heat and Mass Transfer, 1995, 22, 595-604.	2.9	34
83	Analysis of vane-spring structures. Computers and Structures, 1995, 57, 447-453.	2.4	1
84	Computer-aided design of an artillery system. Computers and Structures, 1994, 53, 1023-1031.	2.4	1
85	Buckling strength optimization of laminated composite plates. Computers and Structures, 1993, 46, 77-82.	2.4	20