Kouichi Nishino

List of Publications by Year
in descending order

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53	1,750	361413	276875
papers	citations	20 h-index	41 g-index

53	53	53	1065
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Heat transfer enhancement accompanying pressure-loss reduction with winglet-type vortex generators for fin-tube heat exchangers. International Journal of Heat and Mass Transfer, 2002, 45, 3795-3801.	4.8	236
2	Numerical and experimental determination of flow structure and heat transfer effects of longitudinal vortices in a channel flow. International Journal of Heat and Mass Transfer, 1996, 39, 3441-3451.	4.8	193
3	Three-Dimensional Particle Tracking Velocimetry Based on Automated Digital Image Processing. Journal of Fluids Engineering, Transactions of the ASME, 1989, 111, 384-391.	1.5	165
4	Turbulence statistics in the stagnation region of an axisymmetric impinging jet flow. International Journal of Heat and Fluid Flow, 1996, 17, 193-201.	2.4	133
5	Statistical simulation of particle deposition on the wall from turbulent dispersed pipe flow. International Journal of Heat and Fluid Flow, 2000, 21, 389-402.	2.4	121
6	Probing turbulence with three-dimensional particle-tracking velocimetry. Experimental Thermal and Fluid Science, 1991, 4, 601-612.	2.7	79
7	Stereo imaging for simultaneous measurement of size and velocity of particles in dispersed two-phase flow. Measurement Science and Technology, 2000, 11, 633-645.	2.6	79
8	Simultaneous heat transfer enhancement and pressure loss reduction for finned-tube bundles with the first or two transverse rows of built-in winglets. Experimental Thermal and Fluid Science, 2005, 29, 625-632.	2.7	64
9	PIV measurement of internal structure of diesel fuel spray. Experiments in Fluids, 2000, 29, S211-S219.	2.4	60
10	Thermal contact conductance under low applied load in a vacuum environment. Experimental Thermal and Fluid Science, 1995, 10, 258-271.	2.7	56
11	Report on Microgravity Experiments of Marangoni Convection Aboard International Space Station. Journal of Heat Transfer, 2012, 134, .	2.1	53
12	Heat transfer and pressure loss penalty for the number of tube rows of staggered finned-tube bundles with a single transverse row of winglets. International Journal of Heat and Mass Transfer, 2003, 46, 175-180.	4.8	44
13	Instability of thermocapillary convection in long liquid bridges of high Prandtl number fluids in microgravity. Journal of Crystal Growth, 2015, 420, 57-63.	1.5	43
14	An approach for accurate simulation of liquid mixing in a T-shaped micromixer. Lab on A Chip, 2013, 13, 1515.	6.0	40
15	Report on Microgravity Experiments of Dynamic Surface Deformation Effects on Marangoni Instability in High-Prandtl-Number Liquid Bridges. Microgravity Science and Technology, 2018, 30, 599-610.	1.4	33
16	3D PTV measurement of oscillatory thermocapillary convection in half-zone liquid bridge. Experiments in Fluids, 2005, 38, 285-290.	2.4	32
17	3-D PTV measurement of Marangoni convection in liquid bridge in space experiment. Experiments in Fluids, 2012, 53, 9-20.	2.4	29
18	Numerical study to investigate the effect of partition block and ambient air temperature on interfacial heat transfer in liquid bridges of high Prandtl number fluid. Journal of Crystal Growth, 2007, 300, 486-496.	1.5	28

#	Article	IF	Citations
19	Swirl-inducing inlet for passive micromixers. RSC Advances, 2014, 4, 824-829.	3.6	28
20	Effect of ambient gas flow on the instability of Marangoni convection in liquid bridges of various volume ratios. International Journal of Heat and Mass Transfer, 2016, 99, 182-191.	4.8	24
21	Transition to chaotic thermocapillary convection in a half zone liquid bridge. International Journal of Heat and Mass Transfer, 2015, 89, 903-912.	4.8	20
22	Hydrothermal Wave Instability in a High-Aspect-Ratio Liquid Bridge of Pr >â€‰ 200. Microgravity Science and Technology, 2013, 25, 43-58.	1.4	18
23	Effect of Orientation of Internal Turbulence Promoting Ribs on Flow Characteristics for Film Cooling. Journal of Thermal Science and Technology, 2013, 8, 15-27.	1.1	17
24	Effect of interfacial heat transfer on basic flow and instability in a high-Prandtl-number thermocapillary liquid bridge. International Journal of Heat and Mass Transfer, 2018, 125, 1121-1130.	4.8	16
25	Effects of Turbulence Promoters of Gas Turbine Blades on Film Cooling Performance. Journal of Thermal Science and Technology, 2012, 7, 603-618.	1.1	15
26	Effect of radiative heat transfer on thermocapillary convection in long liquid bridges of high-Prandtl-number fluids in microgravity. International Journal of Heat and Mass Transfer, 2019, 133, 405-415.	4.8	11
27	Numerical study on the effects of convective and radiative heat transfer on thermocapillary convection in a high-Prandtl-number liquid bridge in weightlessness. Advances in Space Research, 2020, 66, 2047-2061.	2.6	11
28	Effect of G-jitter on the thermocapillary convection experiment in ISS. Microgravity Science and Technology, 2005, 16, 285-289.	1.4	10
29	Terrestrial and microgravity experiments on onset of oscillatory thermocapillary-driven convection in hanging droplets. International Journal of Heat and Mass Transfer, 2018, 123, 945-956.	4.8	9
30	Heat Transfer Enhancement and Pressure-Loss Reduction for Fin-Surfaces of In-line Tube Bundle with a Single Front Row of Winglet Pairs.. JSME International Journal Series B, 2002, 45, 910-916.	0.3	8
31	Turbulence energetics in an axisymmetric impinging jet flow. Physics of Fluids, 2019, 31, .	4.0	8
32	Coherent structures of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>m</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:m by low-Stokes-number particles suspended in a half-zone liquid bridge of high aspect ratio: Microgravity and terrestrial experiments. Physical Review Fluids, 2022, 7, .	2.5	7
33	Space Experiment of Marangoni Convection on International Space Station. , 2010, , .		6
34	Turbulence characteristics of radially-confined impinging jet flows. International Journal of Heat and Fluid Flow, 2019, 75, 278-299.	2.4	6
35	DIGITAL PTV MEASUREMENTS OF A SEPARATED AIR FLOW BEHIND A BACKWARD-FACING STEP. Journal of Flow Visualization and Image Processing, 1993, 1, 317-335.	0.5	6
36	Temporal speckle pattern interferometry for measuring micron-order surface motion of a liquid bridge. Measurement Science and Technology, 2004, 15, 2284-2294.	2.6	5

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37	Numerical Investigation for Net Enhancement in Thermal-Hydraulic Performance of Compact Fin-Tube Heat Exchangers with Vortex Generators. Journal of Thermal Science and Technology, 2008, 3, 368-380.	1.1	5
38	Convective mixing of miscible liquids in a rotor-stator spinning disk reactor. Chemical Engineering Journal, 2018, 346, 329-339.	12.7	5
39	Semi-Lagrangian Method for Numerical Analysis of Fluid Mixing in T-Shaped Micromixer. Journal of Chemical Engineering of Japan, 2013, 46, 699-708.	0.6	4
40	Heat Induced Separation in Upward Impinging Jet Flows Experimental Verification and Underlying Mechanism. Journal of Thermal Science and Technology, 2011, 6, 93-110.	1.1	3
41	Stereo-PIV measurement of turbulence characteristics in a flow mixer. Journal of Visualization, 2012, 15, 293-308.	1.8	3
42	Oscillation and heat transfer in upward laminar impinging jet flows. International Journal of Heat and Fluid Flow, 2014, 50, 316-329.	2.4	3
43	Conjugate Heat Transfer Computation for Evaluation of Single-Blow Method for Compact Fin-Tube Heat Exchangers. Journal of Thermal Science and Technology, 2008, 3, 219-233.	1.1	2
44	Micro-PIV measurement and CFD analysis of a thin liquid flow between rotating and stationary disks. Journal of Visualization, 2011, 14, 249-258.	1.8	2
45	Flow Dynamics and Heat Transfer Characteristics of Upward Impinging Jets. Procedia Engineering, 2013, 61, 341-346.	1.2	2
46	Numerical Simulation of Heat Transfer Coefficient and Film-Cooling Performance Influenced by the Orientation of Internal Turbulence Promoting Ribs. Journal of Thermal Science and Technology, 2013, 8, 488-503.	1.1	2
47	Heat transfer enhancement and pressure drop for fin-tube bundles with winglet vortex generators. , 2002, , .		2
48	Comparative Analysis of PIV and CFD Results for Unsteady Thermocapillary Convection in Thin-film Liquids. Microgravity Science and Technology, 2021, 33, 1.	1.4	2
49	Numerical Evaluation of Influence of Internal Ribs on Heat Transfer in Flat Plate Film Cooling. , 2013, , .		1
50	Internal flow structure and dynamic free-surface deformation of oscillatory thermocapillary convection in a high-Prandtl-number liquid bridge. Experiments in Fluids, 2022, 63, .	2.4	1
51	4024 Numerical Simulation of Heat Loss to Surrounding Air for Marangoni Convection in a Liquid Bridge of High Prandtl Number Fluid. The Proceedings of the Computational Mechanics Conference, 2005, 2005.18, 397-398.	0.0	0
52	Numerical Study of Steady Thermocapillary Convection in a Cylindrical Half-Floating-Zone. International Journal of Fluid Mechanics Research, 2010, 37, 506-529.	0.4	0
53	Effect of Development-Zone Restrictions on the Turbulent Characteristics of Impinging Jet Flow. , 2011, , .		0