Takehiro Himeno

List of Publications by Year
in descending order

94	503	1039880 9	839398 18
papers	citations	h-index	g-index

94	94	94	258
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Shock Wave Behavior on Unsteady Aerodynamic Characteristics of Oscillating Transonic Compressor Cascade. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	0.5	3
2	Pressure recovery during pressure reduction experiment with large-scale liquid hydrogen tank. International Journal of Hydrogen Energy, 2021, 46, 29583-29596.	3.8	11
3	Experimental analysis of thermal behavior in cryogenic propellant tank with different pressurants. Cryogenics, 2020, 112, 103196.	0.9	13
4	CFD Modeling of Phase Change and Pressure Drop during Violent Sloshing of Cryogenic Fluid in a Small-Scale Tank. , 2020, , .		5
5	CFD Modeling of Cryogenic Chilldown in a Complex Channel under Normal and Low Gravity Conditions. , 2020, , .		3
6	Ground based experiment and numerical calculation on thermodynamic vent system in propellant tank for future cryogenic propulsion system. Cryogenics, 2020, 109, 103095.	0.9	3
7	Basic Study on Thermodynamic Vent System in Propulsion System for Future Spacecraft. Microgravity Science and Technology, 2020, 32, 339-348.	0.7	2
8	Unified Length Scale of Spray Structure by Unlike Impinging Jets. Transactions of the Japan Society for Aeronautical and Space Sciences, 2019, 62, 213-218.	0.4	10
9	Dynamics of Low-Gravity Sloshing in Spherical Tanks during Touchdown Phases of Landers. , 2019, , .		2
10	Numerical Simulation on Liquid Hydrogen Chill-down Process of Vertical Pipeline. , 2019, , .		1
11	Investigation of Cryogenic Chilldown in a Complex Channel Under Low Gravity Using a Sounding Rocket. Journal of Spacecraft and Rockets, 2019, 56, 91-103.	1.3	16
12	Unsteady Pressure Measurement on Oscillating Blade in Transonic Flow Using Fast-Response Pressure-Sensitive Paint. Journal of Turbomachinery, 2018, 140, .	0.9	11
13	A new approach of casing treatment design for high speed compressors running at partial speeds with low speed large scale test. Aerospace Science and Technology, 2018, 72, 104-113.	2.5	10
14	Unsteady Flow Simulation of Buoyancy-Driven Flows in High-Pressure Compressor Disk Cavities. , 2018, , .		0
15	The Behavior of the Casing Boundary Layer With the Presence of Tip Leakage Vortex. , 2018, , .		2
16	Investigation on Phase Change and Pressure Drop Enhanced by Violent Sloshing of Cryogenic Fluid. , 2018, , .		4
17	Development and Validation of a Compressible Large-Eddy Simulation Code With Overset Mesh Method. , 2017, , .		1
18	Unsteady Pressure Measurement on Oscillating Blade in Transonic Flow Using Fast-Response Pressure-Sensitive Paint. , 2017, , .		4

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19	Experimental and Numerical Investigation on Pressure Change in Cryogenic Sloshing with a Ring Baffle. , 2017, , .		0
20	Liquid Nitrogen Chill-down Process Prediction by Direct Interface Tracking Approach. , 2017, , .		2
21	Effect of trailing edge size on the droplets size distribution downstream of the blade. Journal of Thermal Science and Technology, 2017, 12, JTST0031-JTST0031.	0.6	1
22	Normalized Spray Flux Distribution in Impinging Atomization. Transactions of the Japan Society for Aeronautical and Space Sciences, 2017, 60, 255-258.	0.4	4
23	Numerical Analysis of Transonic Compressor With Various Tip Clearance Gap. , 2016, , .		2
24	Statistical Sensitivity Study of Frequency Mistuning on the Prediction of the Flutter Boundary in a Transonic Fan. , 2016, , .		1
25	Potential of Aircraft Electric Propulsion with SOFC/GT Hybrid Core. , 2016, , .		4
26	Experimental Investigation on Liquid Acquisition Devices by Mesh-type Baffles. , 2016, , .		0
27	Numerical Investigation of PEM Fuel Cell Performance in an Aircraft Oxygen-Gas Oxidizer System. , 2016, , .		0
28	Verification and Application of Fluid-Structure Interaction and a Modal Identification Technique to Cascade Flutter Simulations. International Journal of Gas Turbine, Propulsion and Power Systems, 2016, 8, 20-28.	0.4	3
29	Sounding Rocket Experiment on Chill-down Process with Liquid Nitrogen in a Complex Channel. , 2015, , .		1
30	Preliminary Design Investigation of Electromagnetic Motors for Turbofan-Drive Assist. , 2015, , .		1
31	Numerical Analysis of Rising Bubble in Reduced-pressure Environment. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2015, 101, 109-116.	0.1	4
32	Observation of Single and Continuous Bubbles Rising in Reduced Pressure Vessel. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2015, 101, 93-100.	0.1	7
33	Numerical and Experimental Investigation on Spray Flux Distribution Produced by Liquid Sheet Atomization. , 2015, , .		4
34	Investigation of FC/GT Hybrid Core in Electrical Propulsion for Fan Aircraft. , 2015, , .		8
35	Numerical Modeling of Boiling Flow in a Cryogenic Propulsion System. , 2015, , .		2
36	Measuring Two-phase Flow Behavior and Heat Transfer Characteristics during Coasting Flight, Development of Experimental Equipment for S-310-43 Sounding Rocket. Journal of the Japan Society for Aeronautical and Space Sciences, 2015, 63, 188-196.	0.0	2

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37	Investigation of Combustion and Altitude-Ignition Performance of a Small Hydrogen-Fueled Reversed-Flow Turbine Combustor. , 2014, , .		2
38	Multimode Flutter Analysis of Transonic Fan Using FSI Simulation. , 2014, , .		5
39	Numerical Analysis of Flow in a Transonic Compressor With a Single Circumferential Casing Groove: Application to Two Different Compressor Rotors. , 2014, , .		1
40	Numerical Analysis of Flow in a Transonic Compressor With a Single Circumferential Casing Groove: Influence of Groove Location and Depth on Flow Instability. Journal of Turbomachinery, 2014, 136, .	0.9	47
41	Numerical Analysis of Large-Scale Tip-Driving Electric Motors for Thrust Fan. , 2014, , .		1
42	Suppression of Supersonic Jet Noise From Rectangular Nozzle by Microjet Injection: Influence of Main Jet Condition. , 2013, , .		0
43	Enhancement of Impinging Atomization by Microjet Injection. , 2013, , .		0
44	Numerical Analysis on Boiling Flow in Surface Tension Dominant Environment. , 2013, , .		0
45	Experimental Investigation on Heat Exchange and Pressure Drop Enhanced by Vertical Sloshing. , 2013, , .		0
46	Free-surface Flow Simulation of Impinging Jet Nozzles for Liquid-propellant Thrusters. , 2013, , .		0
47	Impinging Atomization Enhanced by Microjet Injection - effect, mechanism and optimization -. , 2013, , .		6
48	Numerical Analysis of Flow in a Transonic Compressor With a Single Circumferential Casing Groove: Influence of Groove Location and Depth on Flow Instability. , 2013, , .		2
49	Ground Experiment for Development of Liquid Propellant Acquisition Devices under Microgravity. Aerospace Technology Japan the Japan Society for Aeronautical and Space Sciences, 2013, 12, 73-77.	0.1	5
50	Theoretical Prediction of Droplet Diameters Based on Energy Conservation Law. , 2012, , .		0
51	Atomization and Flow Characteristics of Liquid Sheet Produced by Jet Impingement. Journal of Propulsion and Power, 2012, 28, 1060-1070.	1.3	9
52	Demonstration of Supercritical CO2 Closed Regenerative Brayton Cycle in a Bench Scale Experiment. , 2012, , .		37
53	Consistent Theoretical Model of Mean Diameter and Size Distribution by Liquid Sheet Atomization. , 2012, , .		2
54	Enhancement Mechanism of Impinging Atomization by Gas Injection. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2012, 78, 1990-2003.	0.2	1

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55	Estimation Method of Spray Diameter and Size Distribution Based on Energy Conservation Law. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2012, 78, 850-861.	0.2	1
56	Influence of Microjet Condition on Characteristics of Supersonic Jet Noise and Flow Field. , 2012, , .		0
57	Numerical and Experimental Study on Liquid Jet Atomization at Near-Field of Coaxial Type Injector. , 2011, , .		0
58	Heat Exchange and Pressure Drop Enhanced by Sloshing. , 2011, , .		13
59	Influence of Microjet Injection on Supersonic Jet Noise and Flow Field. , 2011, , .		1
60	Study on Free-surface Flows in Aerospace Propulsion Systems. Interdisciplinary Information Sciences, 2011, 17, 15-17.	0.2	0
61	Investigation of Microjet Injection for Reduction of Supersonic Jet Noise. , 2010, , .		2
62	Effect and Mechanism of Injector Internal Flow on Liquid Sheet Dynamics and Atomization Characteristics : Effect of Injection Velocity Profile(<Special Issue>The Forefront of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (M Mechanical Engineers Series B B-hen, 2010, 76, 755-762.	0.2	3
63	Numerical Analysis of Free-Surface Flows under Various Conditions in Acceleration : Improvement of CIP-LSM : CIP-Based Level Set & MARS(<Special Issue>The Forefront of Multi-Physics CFD/EFD). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2010, 76, 778-788.	0.2	8
64	Numerical Study on Oscillatory Flow in Multi-Bifurcation of Avian Lung Model(Fluids Engineering). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2010, 76, 1206-1213.	0.2	0
65	Liquid Jet Dynamics and Primary Breakup Characteristics at Near-Field of Coaxial Type Injector. , 2010, , .		2
66	Heat Exchange and Pressure Drop Enhanced by Violent Sloshing. , 2010, , .		1
67	Experimental Study of Supersonic Jet Noise Reduction With Microjet Injection. , 2009, , .		2
68	Liquid Sheet Dynamics and Primary Breakup Characteristics at Impingement Type Injector. , 2009, , .		10
69	Investigation on Heat Exchange Enhanced by Sloshing. , 2009, , .		1
70	Preliminary Investigation on Heat Exchange Enhanced by Sloshing. , 2008, , .		0
71	Study on Atomization Process of Liquid Sheet Formed by Impinging Jets. , 2008, , .		12
72	Numerical Analysis on Breakup Process and Inner Structure of Oscillatory Liquid Jet. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2007, 73, 2397-2402.	0.2	0

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73	Numerical Analysis on Dynamics and Inner Structures of Liquid Jet in Pinch-Off. , 2007, , .		0
74	Numerical and Experimental Investigation on Sloshing in Rocket Tanks with Damping Devices. , 2007, , .		4
75	Numerical simulation of gasâ€“liquid two-phase flow and convective heat transfer in a micro tube. International Journal of Heat and Fluid Flow, 2007, 28, 72-82.	1.1	90
76	Numerical and Experimental Investigation on Free-surface Flows Driven by Capillary Forces. , 2006, , .		0
77	Numerical Study on Flow Induced Vibration in a Rocket Engine Preburner. , 2006, , .		0
78	Numerical Study on Mass Transport Enhancement in Oscillatory Flow of Avian Lung Model. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2006, 72, 924-932.	0.2	0
79	GENERATION MECHANISM OF UNIDIRECTIONAL FLOW. Journal of Flow Visualization and Image Processing, 2006, 13, 113-132.	0.3	0
80	Oscillatory Flow Structure and Unidirectional Flow in Model Avian Bifurcation. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2005, 71, 2083-2091.	0.2	0
81	Numerical Analysis for Propellant Management in Rocket Tanks. Journal of Propulsion and Power, 2005, 21, 76-86.	1.3	29
82	Off-Design Performance of Turbojet Engine for Sub-Scale Supersonic Unmanned Plane. , 2005, , .		2
83	Sloshing Prediction in the Propellant Tanks of VTVL Rocket Vehicle. , 2005, , .		3
84	830 Mass Transport Enhancement by Unidirectional Flow in Avian Respiration. The Proceedings of the JSME Annual Meeting, 2005, 2005.7, 63-64.	0.0	0
85	A New Paradigm of Computer Graphics by Universal Solver for Solid, Liquid and Gas. JSME International Journal Series B, 2004, 47, 656-663.	0.3	1
86	Numerical Analysis of Sloshing and Wave Breaking in a Small Vessel by CIP-LSM. JSME International Journal Series B, 2004, 47, 709-715.	0.3	15
87	Prediction of Sloshing in the Propellant Tank of Reusable Rocket Vehicle. , 2003, , .		5
88	Thermo-Fluid Management under Low-gravity Conditions. 1st Report. TCUP Method for the Analysis of Thermo-Fluid Phenomena.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2003, 69, 266-273.	0.2	6
89	Thermo-Fluid Management under Low-gravity Conditions (2nd Report, Free-Surface Flows Driven by) Tj ETQq1 1 0.784314 rgBT /Over Engineers Series B B-hen, 2003, 69, 2400-2407.	0.2	11
90	Two-Phase Flow Behavior in a Liquid Propellant Tank.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2000, 66, 67-73.	0.2	0

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91	Numerical analysis of two-phase flow behavior in a liquid propellant tank. , 1999, , .		7
92	Numerical Analysis of Two-Phase Flow under Microgravity Condition.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1999, 65, 2333-2340.	0.2	8
93	VISUALIZATION OF OSCILLATORY FLOW IN TAPERED TUBE. Journal of Flow Visualization and Image Processing, 1997, 4, 307-315.	0.3	0
94	Study on break of thermal stratification in container targeted to thermodynamic vent system for future spacecraft. IOP Conference Series: Materials Science and Engineering, 0, 502, 012082.	0.3	1