

Taro Handa

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

238
citations

933447

10
h-index

940533

16
g-index

20
all docs

20
docs citations

20
times ranked

150
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on supersonic rectangular microjets using molecular tagging velocimetry. Experiments in Fluids, 2014, 55, 1.	2.4	34
2	Mechanism of Shock Wave Oscillation in Transonic Diffusers. AIAA Journal, 2003, 41, 64-70.	2.6	33
3	Measurement of number densities in supersonic flows using a method based on laser-induced acetone fluorescence. Experiments in Fluids, 2011, 50, 1685-1694.	2.4	24
4	Generation and propagation of pressure waves in supersonic deep-cavity flows. Experiments in Fluids, 2012, 53, 1855-1866.	2.4	23
5	Supersonic mixing enhanced by cavity-induced three-dimensional oscillatory flow. Experiments in Fluids, 2014, 55, 1.	2.4	21
6	Modeling of a Feedback Mechanism in Supersonic Deep-Cavity Flows. AIAA Journal, 2015, 53, 420-425.	2.6	17
7	Phenomena peculiar to underexpanded flows in supersonic micronozzles. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	17
8	Study on the particle traceability in transonic and supersonic flows using molecular tagging velocimetry. Journal of Visualization, 2015, 18, 511-520.	1.8	16
9	Mechanism of supersonic mixing enhancement by a wall-mounted three-dimensional cavity. Acta Astronautica, 2021, 188, 491-504.	3.2	12
10	Fluidic oscillator actuated by a cavity at high frequencies. Sensors and Actuators A: Physical, 2019, 300, 111676.	4.1	11
11	Experimental study of small supersonic circular jets actuated by a cavity. Experimental Thermal and Fluid Science, 2018, 96, 419-429.	2.7	7
12	Frequencies of Transverse and Longitudinal Oscillations in Supersonic Cavity Flows. International Journal of Aerospace Engineering, 2015, 2015, 1-7.	0.9	6
13	Visualization of Supersonic Microjets Using LIF and MTV Techniques. IOP Conference Series: Materials Science and Engineering, 2017, 249, 012016.	0.6	4
14	Investigation on choking behavior of gas flow in microducts. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	3
15	Peculiarities of low-Reynolds-number supersonic flows in long microchannel. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	3
16	Study on the collapse length of compressible rectangular microjets. Experiments in Fluids, 2020, 61, 1.	2.4	3
17	Device for creating a pair of anti-phase-synchronized high-frequency flapping jets. Sensors and Actuators A: Physical, 2022, 341, 113595.	4.1	3
18	Study on Decay Characteristics of FLEET Emission in Air for High-resolution Measurements of Supersonic Flows. Transactions of the Japan Society for Aeronautical and Space Sciences, 2022, 65, 109-115.	0.7	1

#	ARTICLE	IF	CITATIONS
19	Experimental Investigation on the Three-Dimensional Structure of Normal Shock Wave/Boundary Layer Interaction in a Constant Area Rectangular Duct. 880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2004, 70, 1687-1694.	0.2	0
20	Visualization of an Oscillatory Supersonic Cavity Flow Using LIF and Schlieren Methods. 880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2012, 78, 1318-1326.	0.2	0