

Takao Suzuki

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,216
citations

516561

16
h-index

414303

32
g-index

62
all docs

62
docs citations

62
times ranked

605
citing authors

#	ARTICLE	IF	CITATIONS
1	Instability waves in a subsonic round jet detected using a near-field phased microphone array. <i>Journal of Fluid Mechanics</i> , 2006, 565, 197.	1.4	321
2	L1 generalized inverse beam-forming algorithm resolving coherent/incoherent, distributed and multipole sources. <i>Journal of Sound and Vibration</i> , 2011, 330, 5835-5851.	2.1	119
3	Shock leakage through an unsteady vortex-laden mixing layer: application to jet screech. <i>Journal of Fluid Mechanics</i> , 2003, 490, 139-167.	1.4	93
4	Particle tracking velocimetry applied to estimate the pressure field around a Savonius turbine. <i>Measurement Science and Technology</i> , 2007, 18, 2491-2503.	1.4	66
5	Reduced-order Kalman-filtered hybrid simulation combining particle tracking velocimetry and direct numerical simulation. <i>Journal of Fluid Mechanics</i> , 2012, 709, 249-288.	1.4	58
6	Image analysis applied to study on frictional-drag reduction by electrolytic microbubbles in a turbulent channel flow. <i>Experiments in Fluids</i> , 2011, 50, 715-727.	1.1	40
7	Unsteady PTV velocity field past an airfoil solved with DNS: Part 1. Algorithm of hybrid simulation and hybrid velocity field at $Re \hat{=} 103$. <i>Experiments in Fluids</i> , 2009, 47, 957-976.	1.1	37
8	Coherent noise sources of a subsonic round jet investigated using hydrodynamic and acoustic phased-microphone arrays. <i>Journal of Fluid Mechanics</i> , 2013, 730, 659-698.	1.4	36
9	A review of diagnostic studies on jet-noise sources and generation mechanisms of subsonically convecting jets. <i>Fluid Dynamics Research</i> , 2010, 42, 014001.	0.6	29
10	Unsteady Simulations of a Fan/Outlet-Guide-Vane System: Aerodynamics and Turbulence. <i>AIAA Journal</i> , 2018, 56, 2283-2297.	1.5	28
11	Identification of multipole noise sources in low Mach number jets near the peak frequency. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 3649-3659.	0.5	27
12	Estimation of turbulent channel flow at \hat{A} based on the wall measurement using a \hat{A} simple \hat{A} sequential approach. <i>Journal of Fluid Mechanics</i> , 2017, 830, 760-796.	1.4	27
13	Unsteady Simulations of a Fan/Outlet-Guide-Vane System: Broadband-Noise Computation. <i>AIAA Journal</i> , 2019, 57, 5168-5181.	1.5	23
14	Modeling Jet Noise from Organized Structures Using Near-Field Hydrodynamic Pressure. , 2005, , .		22
15	Unsteady PTV velocity field past an airfoil solved with DNS: Part 2. Validation and application at Reynolds numbers up to $Re \hat{=} 104$. <i>Experiments in Fluids</i> , 2009, 47, 977-994.	1.1	21
16	Unsteady Simulations of a Fan/Outlet-Guide-Vane System: Tone \hat{A} Noise Computation. <i>AIAA Journal</i> , 2018, 56, 3558-3569.	1.5	20
17	Effects of a synthetic jet acting on a separated flow over a hump. <i>Journal of Fluid Mechanics</i> , 2006, 547, 331.	1.4	19
18	Generalized Inverse Beam-forming Algorithm Resolving Coherent/Incoherent, Distributed and Multipole Sources. , 2008, , .		17

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19	Vortex shedding in a two-dimensional diffuser: theory and simulation of separation control by periodic mass injection. <i>Journal of Fluid Mechanics</i> , 2004, 520, 187-213.	1.4	16
20	Hierarchy of hybrid unsteady-flow simulations integrating time-resolved PTV with DNS and their data-assimilation capabilities. <i>Fluid Dynamics Research</i> , 2015, 47, 051407.	0.6	16
21	Comparative study on mode-identification algorithms using a phased-array system in a rectangular duct. <i>Journal of Sound and Vibration</i> , 2015, 347, 27-45.	2.1	16
22	Inverse-Imaging Method for Detection of a Vortex in a Channel. <i>AIAA Journal</i> , 2003, 41, 1743-1751.	1.5	14
23	Instability waves in a low-Reynolds-number planar jet investigated with hybrid simulation combining particle tracking velocimetry and direct numerical simulation. <i>Journal of Fluid Mechanics</i> , 2010, 655, 344-379.	1.4	14
24	DAMAS2 Using a Point-Spread Function Weakly Varying in Space. <i>AIAA Journal</i> , 2010, 48, 2165-2169.	1.5	14
25	Wave-Packet Representation of Shock-Cell Noise for a Single Round Jet. <i>AIAA Journal</i> , 2016, 54, 3903-3917.	1.5	13
26	POD-based reduced-order hybrid simulation using the data-driven transfer function with time-resolved PTV feedback. <i>Experiments in Fluids</i> , 2014, 55, 1.	1.1	11
27	Refracted arrival waves in a zone of silence from a finite thickness mixing layer. <i>Journal of the Acoustical Society of America</i> , 2002, 111, 716-728.	0.5	10
28	Identification of Jet Instability Waves and Design of a Microphone Array. , 2004, , .		7
29	Unsteady Simulations of a Fan/Outlet-Guide-Vane System. Part 1: Aerodynamics and Turbulence. , 2017, , .		7
30	Unsteady pressure estimation and compensation capabilities of the hybrid simulation combining PIV and DNS. <i>Measurement Science and Technology</i> , 2018, 29, 125305.	1.4	6
31	Inverse Technique for Vortex Imaging and Its Application to Feedback Flow Control. , 2003, , .		5
32	Unsteady Simulations of a Fan/Outlet-Guide-Vane System. Part 2: Tone Noise Computation. , 2017, , .		5
33	Unsteady Simulation of Sound Propagation in Turbulent Flow Inside a Lined Duct Using a Broadband Time-Domain Impedance Model. , 2020, , .		5
34	A few techniques to improve data-driven reduced-order simulations for unsteady flows. <i>Computers and Fluids</i> , 2020, 201, 104455.	1.3	5
35	Green's functions for a source in a mixing layer: direct waves, refracted arrival waves and instability waves. <i>Journal of Fluid Mechanics</i> , 2003, 477, .	1.4	4
36	Green's functions for a source in a boundary layer: direct waves, channelled waves and diffracted waves. <i>Journal of Fluid Mechanics</i> , 2003, 477, .	1.4	4

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37	Hybrid Unsteady Flow Simulation Combining PTV and DNS at Moderate Reynolds Numbers. , 2007, , .		4
38	Reconstruction of gas-liquid flows using the stochastic estimation with a 16-channel electrode array. Measurement Science and Technology, 2008, 19, 105402.	1.4	4
39	Noise Sources of Subsonic Round Jets Investigated Using Phased Microphone Arrays. , 2010, , .		4
40	Unsteady Simulations of a Fan/Outlet-Guide-Vane System. Part 3: Broadband Noise Computation. , 2018, , .		4
41	Green's functions in a boundary layer - Low and high frequency asymptotes. , 2000, , .		3
42	Coherent Noise Radiation from a Jet Investigated with a Beam-Forming Technique. , 2006, , .		3
43	Unsteady PTV Velocity Field Solved with DNS. , 2006, , .		3
44	Relation Between Instability Waves and Low-Frequency Jet Noise Investigated with Phased-Microphone Arrays. , 2006, , .		3
45	New Beam-forming Algorithm for High Speed Jet Flows. , 2002, , .		2
46	Potential Amplification Mechanism of Rotor-Stator-Interaction Noise via Spiral-Poiseuille-Flow Instability. AIAA Journal, 2022, 60, 2441-2457.	1.5	2
47	Acoustic scattering from a mixing layer - Role of instability waves. , 1999, , .		1
48	Closed-loop Control of Vortex Shedding in a Separated Diffuser Using an Inverse Method. , 2004, , .		1
49	High-Frequency Acoustic Fields Solved Based on Geometrical Acoustics: Direct Waves, Reflected Waves, Creeping Waves, Diffracted Waves and Caustics. , 2010, , .		1
50	Mode Identification in a Rectangular Duct Using an L1 Generalized Inverse Beam-forming Approach. , 2011, , .		1
51	Potential Amplification Mechanism of Rotor-Stator-Interaction Noise via Spiral-Poiseuille-Flow Instability of Rotor Wakes. , 2020, , .		1
52	Unsteady Simulations of Sound Propagation in Turbulent Flow Inside a Lined Duct. AIAA Journal, 0, 1-17.	1.5	1
53	Spiral Flow Instability in Interstage Flow of High-speed Fan Rigs. , 2021, , .		1
54	Further Evaluation of Prediction Capability of the Broadband Time-Domain Impedance Model for Sound Propagation in Turbulent Grazing Flow. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
55	Shock leakage through an unsteady vortex-laden mixing layer - Application to jet screech. , 2001, , .		0
56	Large-scale Unsteadiness in a Two-dimensional Diffuser: Numerical Study Toward Active Separation Control. , 2003, , .		0
57	Zero-net-mass-flux Jet Acting on a Separated Flow over a Half-cylindrical Hump. , 2006, , .		0
58	Hierarchy of Hybrid Unsteady-Flow Simulations Integrating Time-Resolved PIV/PTV with Unsteady CFD. , 2014, , .		0
59	603 STUDY ON A PLANAR JET USING HYBRID SIMULATION COMBINING PTV AND DNS. The Proceedings of the JSME Annual Meeting, 2008, 2008.6, 5-6.	0.0	0
60	J0501-3-6 Algorithm and applications of hybrid unsteady-flow simulation combining PTV and DNS. The Proceedings of the JSME Annual Meeting, 2010, 2010.7, 35-36.	0.0	0
61	Wave-packet Representation of Shockcell Noise for a Single Round Jet. , 2017, , .		0