

# Akiyoshi Iida

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

266  
citations

1162367

8  
h-index

1199166

12  
g-index

82  
all docs

82  
docs citations

82  
times ranked

109  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct numerical simulation of fluidâ€™acoustic interactions in a recorder with tone holes. Journal of the Acoustical Society of America, 2015, 138, 858-873.	0.5	30
2	Self-sustained oscillations with acoustic feedback in flows over a backward-facing step with a small upstream step. Physics of Fluids, 2007, 19, 106104.	1.6	18
3	Experimental Investigation of Aerodynamic Noise Generated by a Train-Car Gap. Journal of Fluid Science and Technology, 2007, 2, 464-479.	0.2	15
4	Analysis of jet oscillations with acoustic radiation in the recorder by direct aeroacoustic simulations. Journal of the Acoustical Society of America, 2019, 146, 1427-1437.	0.5	12
5	Prediction of Aerodynamic Noise Radiated From a Vertical-Axis Wind Turbine. , 2003, , 63.		11
6	Experimental Tests and Aeroacoustic Simulations of the Control of Cavity Tone by Plasma Actuators. Applied Sciences (Switzerland), 2017, 7, 790.	1.3	10
7	Forced-oscillation control of sound radiated from the flow around a cascade of flat plates. Journal of Sound and Vibration, 2018, 431, 248-264.	2.1	10
8	Numerical Prediction of Aerodynamic Sound by Large Eddy Simulation. 1st Report. Aerodynamic Sound Radiated From Two-Dimensional Circular Cylinder.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1994, 60, 126-132.	0.2	8
9	Experimental Investigation of Generation Mechanism of Aerodynamic Noise. 1st Report. On a Coherent Structure of Surface Pressure Fluctuation on a Circular Cylinder.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1995, 61, 4371-4378.	0.2	8
10	Analysis of Aerodynamic Sound Source with Measurement of Static-Pressure Fluctuation.. JSME International Journal Series B, 1999, 42, 596-604.	0.3	8
11	Effects of Freestream Turbulence on Cavity Tone and Sound Source. International Journal of Aerospace Engineering, 2016, 2016, 1-16.	0.5	8
12	Hysteresis of aeroacoustic sound generation in the articulation of [s]. Physics of Fluids, 2020, 32, 105114.	1.6	8
13	Numerical analysis of the efficiency of face masks for preventing droplet airborne infections. Physics of Fluids, 2022, 34, .	1.6	8
14	Proposition of a New Formula for Frequency Prediction Based on Generation Mechanism of Aerodynamic Sound in Cavity Flows. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2011, 77, 1522-1532.	0.2	7
15	Anisotropic doubleâ€™Gaussian analytical wake model for an isolated horizontalâ€™axis wind turbine. Energy Science and Engineering, 2022, 10, 2123-2145.	1.9	7
16	Measurements of Aeroacoustic Noise and Pressure Fluctuation Generated by a Door-Mirror Model Placed on a Flat Plate. Journal of Environment and Engineering, 2007, 2, 278-292.	0.2	6
17	Numerical investigation of effects of incisor angle on production of sibilant /s/. Scientific Reports, 2021, 11, 16720.	1.6	6
18	Evaluation of the characteristic features of a large-scale turbulence field. 1st Report. Performance of the turbulence generator.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1987, 53, 3173-3179.	0.2	5

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19	Global numerical simulation of fluid-structure-acoustic interaction in a single-reed instrument. Journal of the Acoustical Society of America, 2021, 149, 1623-1632.	0.5	5
20	Analysis of flow and acoustic radiation in reed instruments by compressible flow simulation. Acoustical Science and Technology, 2020, 41, 739-750.	0.3	5
21	Evaluation of the characteristic features of a large-scale turbulence field. 2nd Report. On the statistical quantities of the turbulence.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1987, 53, 3180-3186.	0.2	4
22	Experimental Investigation of the Generation Mechanism of Aerodynamic Noise. 2nd Report. On Correlation between Surface Pressure Fluctuation and Aerodynamic Sound Radiated from a Circular Cylinder.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1996, 62, 4160-4167.	0.2	4
23	Reduction of aerodynamic noise from a train car gap. Noise Control Engineering Journal, 2008, 56, 460.	0.2	4
24	Control of Flow around an Oscillating Plate for Lift Enhancement by Plasma Actuators. Applied Sciences (Switzerland), 2019, 9, 776.	1.3	4
25	Measurements of Aero-Acoustic Noise and Pressure Fluctuation Generated by a Door-Mirror Model Placed on a Flat Plate. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2005, 71, 2471-2479.	0.2	3
26	On the Study of Aerodynamic Noise Measurement of Turbulent Flow Field with a Low-noise Turbulence Generator. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2007, 73, 1629-1636.	0.2	3
27	Numerical Estimation of Exhaust Gas Emission From Tunnel Portal With Forced Extraction System. , 2007, , .		3
28	Visualization of three-dimensional vortex structures around a dragonfly with dynamic PIV. Journal of Visualization, 2007, 10, 159-160.	1.1	3
29	Direct simulation of acoustic radiation with a feedback loop around a trailing edge of a curved plate with an upstream kink shape in a laminar boundary layer. Transactions of the JSME (in Japanese), 2015, 81, 15-00148-15-00148.	0.1	3
30	Measurement of unsteady surface pressure on rotor blades of fans by pressure-sensitive paint. AIP Conference Proceedings, 2017, , .	0.3	3
31	Control of aerodynamic noise from cascade of flat plates by plasma actuators. Transactions of the JSME (in Japanese), 2017, 83, 16-00364-16-00364.	0.1	3
32	A fully coupled fluidâ€“structureâ€“acoustic interaction simulation on reed-type artificial vocal fold. Applied Acoustics, 2021, 184, 108339.	1.7	3
33	Visualization of Aerodynamic Sound Source with Compact Green's Function. , 2002, , .		2
34	Investigation on Aerodynamic Noise generated by a Train-Car Gap (1st Report, Experimental) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 T the Japan Society of Mechanical Engineers Series B B-hen, 2006, 72, 1943-1951.	0.2	2
35	Visualization of aerodynamic noise source in the wake of a rotating cylinder. Journal of Visualization, 2007, 10, 37-38.	1.1	2
36	Aerodynamic Sound Sources from Flows around a Rectangular Cylinder with a Low Mach Number. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2013, 79, 344-355.	0.2	2

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37	Prediction of Aeroacoustical Interior Noise of a Car, Part-2 Structural and Acoustical Analyses. , 0, , .		2
38	Prediction of Aeroacoustical Interior Noise of a Car, Part-1 Prediction of Pressure Fluctuations on External Surfaces of a Car. , 2016, , .		2
39	Effects of wake-turbine blade interactions on power production of wind turbines. AIP Conference Proceedings, 2017, , .	0.3	2
40	Experimental and Numerical Investigations on Control Methods of Cavity Tone by Blowing Jet in an Upstream Boundary Layer. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 10, 703-711.	0.4	2
41	Suppression of Aerodynamic Tonal Noise from an Automobile Bonnet Using a Plasma Actuator. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 10, 712-720.	0.4	2
42	Clarification of acoustic source and propagation process of aerodynamic noise radiated from a forward step with an incoming turbulent boundary layer. Transactions of the JSME (in Japanese), 2018, 84, 18-00199-18-00199.	0.1	2
43	An experimental study on axisymmetric turbulence. 1st report. The generation and decay process of a cigar-shaped axisymmetric turbulence field.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1988, 54, 2408-2415.	0.2	1
44	Experimental simulation of atmospheric diffusion. 1st report. On the features of the large-scale turbulence field and mean concentration distribution.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1990, 56, 388-395.	0.2	1
45	Analysis of Aerodynamic Sound Source with Measurement of Static-Pressure Fluctuation.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1998, 64, 2057-2064.	0.2	1
46	Generation Conditions of Aero-Acoustic Feedback Noise Radiated from a Rear-view Mirror. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2007, 73, 1637-1646.	0.2	1
47	Correlation Analysis in terms of Unsteady Aerodynamic Force and Flow Field Around a Flying Insect. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2007, 73, 1781-1789.	0.2	1
48	Identification of aerodynamic sound source with a compact Greenâ€™s function. Journal of Visualization, 2007, 10, 161-162.	1.1	1
49	Acoustic Radiation with Resonance around a Cascade of Flat Plates in a Uniform Flow. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2013, 79, 1419-1433.	0.2	1
50	Study on Aerodynamic Noise of Automobiles. Wind Engineers JAWE, 2011, 36, 250-257.	0.0	1
51	Control of aerodynamic noise with feedback loop around the trailing edge of a curved plate with a kink shape by a plasma actuator. Transactions of the JSME (in Japanese), 2018, 84, 18-00121-18-00121.	0.1	1
52	Wavenumber-Frequency Spectrum Analysis of Pressure Fields Around an Automobile. , 2019, , .		1
53	Estimation of sibilant groove formation and sound generation from early hominin jawbones. JASA Express Letters, 2022, 2, 045203.	0.5	1
54	Statistical properties of high reynolds-number turbulent flow fields. 1st report. Verification of the theory of local similarity.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1989, 55, 1847-1854.	0.2	0

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55	An experimental study on axisymmetric turbulence. (2nd report. On the scales and the turbulence) Tj ETQq1 1 0.784314 rgBT /Overlook Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1989, 55, 2221-2229.	0.2	0
56	Statistical properties of high-Reynolds number turbulent flow fields. 2nd report. Measurement of three-dimensional energy spectra.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1990, 56, 342-350.	0.2	0
57	Statistical properties of high-Reynolds number turbulent flow fields. 3rd report. The self-similarity and universal equilibrium theory.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1990, 56, 351-359.	0.2	0
58	Noise Characteristics of Current Collector for High-Speed Railway Using Delta-Shaped Collector Head.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1997, 63, 2679-2686.	0.2	0
59	Numerical Study on Securing Evacuation Environment Under Fire at an Inclined Tunnel Part. , 2007, , 1279.		0
60	Experimental Evaluation Methods of Aeroacoustic Noise Based on the Time Series Analysis of Flow Field(Fluids Engineering). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2009, 75, 1436-1445.	0.2	0
61	Evaluation of Aerodynamic Properties of Magnus Wind Turbines with Spiral Fins(<Special Issue>The) Tj ETQq1 1 0.784314 rgBT /Overlook Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2010, 76, 380-382.	0.2	0
62	A Formula for Prediction of Frequency of Tonal Sound in Cavity Flows With Acoustic Resonance. , 2011, , .		0
63	Experimental Evaluation Methods of Aeroacoustic Noise Based on Time Series Analysis of Flow Field. Journal of Environment and Engineering, 2011, 6, 280-290.	0.2	0
64	Special Issue on The Forefront of Aerodynamic Noise Research. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2013, 79, 1396-1396.	0.2	0
65	Prediction of Pressure Fluctuation on a Vehicle by Large Eddy Simulation. , 2015, , .		0
66	Effective mixing and aeration in a bioreactor with Taylor vortex flow. Mechanical Engineering Letters, 2016, 2, 16-00412-16-00412.	0.2	0
67	Role of longitudinal vortices induced by jets in upstream boundary layer on suppression of cavity tone. AIP Conference Proceedings, 2017, , .	0.3	0
68	Direct aeroacoustic simulation of acoustic radiation in recorders with different windway geometries. Proceedings of Meetings on Acoustics, 2018, , .	0.3	0
69	Aeroacoustic differences between the Japanese fricatives [É·] and [ÃŠ]. Journal of the Acoustical Society of America, 2021, 149, 2426-2436.	0.5	0
70	Effects of jet angle on harmonic structure of sound radiating from the flute. Acta Acustica, 2021, 5, 11.	0.4	0
71	K-1248 Reduction of Aerodynamic Sound Radiated from a Low-Mach Number Jet. The Proceedings of the JSME Annual Meeting, 2001, V.01.1, 177-178.	0.0	0
72	Visualization of aerodynamic sound source by using Multiresolution Analysis. The Proceedings of Conference of Kanto Branch, 2002, 2002.8, 405-406.	0.0	0

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73	Prediction of aerodynamic performance of vertical axis wind turbines. The Proceedings of the JSME Annual Meeting, 2002, 2002.3, 163-164.	0.0	0
74	1810 Prediction of performance of vertical axis wind turbine with LES. The Proceedings of the Fluids Engineering Conference, 2005, 2005, 267.	0.0	0
75	G406 Selection of Dominant Genes of Gliders for Birdman Rally Contest. The Proceedings of the Fluids Engineering Conference, 2005, 2005, 302.	0.0	0
76	3818 Effect of Turbulence on Aerodynamic Noise Radiated form a Circular Cylinder. The Proceedings of the JSME Annual Meeting, 2005, 2005.7, 201-202.	0.0	0
77	J101044 Numerical simulation of aero-acoustic feedback sound with discrete vortex method. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _J101044-1-_J101044-5.	0.0	0
78	J1050103 Effect of the spanwise spacing of small-jets placed in the approaching boundary layer on the noise reduction of cavity. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J1050103-_J1050103-.	0.0	0
79	DIRECT AEROACOUSTIC SIMULATION RELATED WITH MODE CHANGE IN A RECORDER. , 2016, , .		0
80	Effects of the spanwise spacing of jets placed in upstream boundary layer on cavity tone. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J0910101.	0.0	0
81	Reducing tonal sound from a cascade of flat plates by varying the thickness ratio of neighboring plates. Noise Control Engineering Journal, 2018, 66, 375-387.	0.2	0