

Carsten Spehr

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3709559/publications.pdf>

Version: 2024-02-01

30
papers

414
citations

1478505

6
h-index

1281871

11
g-index

31
all docs

31
docs citations

31
times ranked

208
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of acoustic imaging methods using phased microphone arrays. CEAS Aeronautical Journal, 2019, 10, 197-230.	1.7	206
2	A Comparison of Microphone Phased Array Methods Applied to the Study of Airframe Noise in Wind Tunnel Testing. , 2017, , .		27
3	Two-Dimensional Evaluation of Turbulent Boundary Layer Pressure Fluctuations at Cruise Flight Conditions. , 2012, , .		19
4	Decorrelation of Acoustic Wave Propagation through the Shear Layer in Open Jet Wind Tunnel. , 2015, , .		19
5	Comparison of model predictions for coherence length to in-flight measurements at cruise conditions. Journal of Sound and Vibration, 2017, 390, 86-117.	3.9	19
6	Contributions of Different Aeroacoustic Sources to Aircraft Cabin Noise. , 2013, , .		17
7	In-flight Sound Measurements: A first Overview. , 2012, , .		14
8	Spectral Broadening by Shear Layers of Open Jet Wind Tunnels. , 2014, , .		14
9	Obtaining phase velocity of turbulent boundary layer pressure fluctuations at high subsonic Mach number from wind tunnel data affected by strong background noise. Journal of Sound and Vibration, 2017, 402, 85-103.	3.9	13
10	Road to Acquisition: Preparing a MEMS Microphone Array for Measurement of Fuselage Surface Pressure Fluctuations. Micromachines, 2021, 12, 961.	2.9	10
11	Comparison of microphone array measurements in the closed test section of LSWT and ETW. CEAS Aeronautical Journal, 2019, 10, 267-285.	1.7	9
12	Automatic source localization and spectra generation from sparse beamforming maps. Journal of the Acoustical Society of America, 2021, 150, 1866-1882.	1.1	8
13	Examination of the Influence of Flight Altitude and Speed on the Efimtsov Model Parameters. , 2013, , .		7
14	Uniqueness of an inverse source problem in experimental aeroacoustics. Inverse Problems, 2020, 36, 075012.	2.0	5
15	Listening to Turbulence: Measuring Coherence Decay at Different Positions on an Aircraft in Cruise Flight. , 2014, , .		4
16	Up in the Air: In-Flight Wavenumber Characterization of Surface Pressure Fluctuations at Transonic Conditions. , 2018, , .		4
17	Weighted data spaces for correlation-based array imaging in experimental aeroacoustics. Journal of Sound and Vibration, 2021, 494, 115878.	3.9	4
18	Beamforming for measurements under disturbed propagation conditions using numerically calculated Greenâ€™s functions. Journal of Sound and Vibration, 2022, 520, 116638.	3.9	3

#	ARTICLE	IF	CITATIONS
19	Improving the performance of aeroacoustic measurements beneath a turbulent boundary layer in a wake flow. , 2014, , .		2
20	Experimental Investigation of Flow-Induced Panel Vibrations at Cruise Mach Number. , 2015, , .		2
21	Determining Flow Propagation Direction from In-Flight Array Surface Pressure Fluctuation Data. , 2017, , .		2
22	Expert decision support system for aeroacoustic source type identification using clustering. Journal of the Acoustical Society of America, 2022, 151, 1259-1276.	1.1	2
23	Simulation Of Flow-Induced Noise Generation On Orifice Plates In Air-conditioning Ducts. , 2008, , .		1
24	Aeroacoustic Investigations of a Leading Edge Slat by Means of the Causality Correlation Method. , 2012, , .		1
25	Microphone localization with self calibrating acoustic GPS. , 2017, , .		1
26	Broadband Simulation of Flow-Induced Noise Generation on Orifice Plates in Air Conditioning Ducts. , 2009, , .		0
27	Investigation of laminar detachment by means of simultaneous microphone and surface hot wire measurements. , 2013, , .		0
28	Expert Decision Support System for Aeroacoustic Classification from Deconvolved Beamforming Maps. , 2020, , .		0
29	Wavenumber Characterization of Surface Pressure Fluctuations on the Fuselage During Cruise Flight. , 2021, , 157-180.		0
30	Determining Flow Propagation Direction from In-Flight Array Surface Pressure Fluctuation Data. AIAA Journal, 0, , 1-12.	2.6	0