

Susann Boij

List of Publications by Year in descending order

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31
papers

283
citations

1163117

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940533

16
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31
all docs

31
docs citations

31
times ranked

148
citing authors

#	ARTICLE	IF	CITATIONS
1	A frequency domain linearized Navier–Stokes equations approach to acoustic propagation in flow ducts with sharp edges. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 710-719.	1.1	91
2	The attenuation of sound by turbulence in internal flows. <i>Journal of the Acoustical Society of America</i> , 2013, 133, 3764-3776.	1.1	41
3	Numerical and theoretical investigation of pulsatile turbulent channel flows. <i>Journal of Fluid Mechanics</i> , 2016, 792, 98-133.	3.4	27
4	Aero-Acoustics of Flow Duct Singularities at Low Mach Numbers. , 2006, , .		20
5	Flow effects on the acoustic end correction of a sudden in-duct area expansion. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 995-1004.	1.1	17
6	On the calculation of the complex wavenumber of plane waves in rigid-walled low-Mach-number turbulent pipe flows. <i>Journal of Sound and Vibration</i> , 2015, 354, 132-153.	3.9	14
7	Identifying equivalent sound sources from aeroacoustic simulations using a numerical phased array. <i>Journal of Sound and Vibration</i> , 2017, 394, 203-219.	3.9	12
8	Aerodynamic and aeroacoustic analyses of a submerged air inlet in a low-Mach-number flow. <i>Computers and Fluids</i> , 2016, 133, 15-31.	2.5	11
9	A Kirchhoff approximation-based numerical method to compute multiple acoustic scattering of a moving source. <i>Applied Acoustics</i> , 2015, 96, 108-117.	3.3	9
10	Sudden area expansion in ducts with flow – A comparison between cylindrical and rectangular modelling. <i>Journal of Sound and Vibration</i> , 2017, 396, 307-324.	3.9	4
11	Aeroacoustic response of an array of tubes with and without bias-flow. <i>Journal of Sound and Vibration</i> , 2018, 434, 1-16.	3.9	4
12	Experimental investigation of the aero-acoustic interaction at an area-expansion. <i>Journal of Sound and Vibration</i> , 2019, 457, 197-211.	3.9	4
13	Simulation of Wave Scattering at an Orifice by Using a Navier-Stokes Solver. , 2007, , .		3
14	Simulations of the Whistling Potentiality of an In-Duct Orifice with Linear Aeroacoustics. , 2010, , .		3
15	Sound-turbulence interaction in low Mach number duct flow. , 2013, , .		3
16	Simulations of acoustic wave propagation in an impedance tube using a frequency-domain linearized Navier-Stokes methodology. , 2014, , .		3
17	Identification of noise sources on a realistic landing gear using numerical phased array methods applied to computational data. , 2017, , .		3
18	Silencer Design for the Control of Low Frequency Noise in Ventilation Ducts. <i>Designs</i> , 2022, 6, 37.	2.4	3

#	ARTICLE	IF	CITATIONS
19	Scattering Matrix Evaluation with CFD in Low Mach Number Flow Ducts. , 0, , .		2
20	Aeroacoustic study of a submerged air inlet using an IDDES/FW-H approach and sound source modelling through direct numerical beamforming. , 2016, , .		2
21	Parameter Dependence of Flow Acoustic Interaction. AIP Conference Proceedings, 2006, , .	0.4	1
22	An analysis of the acoustic energy in a flow duct with a vortex sheet. , 2009, , .		1
23	The Effect of Boundary Layers on Bulk Reacting Liners at Low Mach Number Flows. , 2013, , .		1
24	Acoustic Characterization of a Hybrid Liner Consisting of Porous Material by Using A Unified Linearized Navier-Stokes Approach. , 2016, , .		1
25	Absorption of sound at a surface exposed to flow and temperature gradients. Applied Acoustics, 2016, 110, 33-42.	3.3	1
26	Assessing the stochastic error of acoustic scattering matrices using linear methods. International Journal of Spray and Combustion Dynamics, 2018, 10, 380-392.	1.0	1
27	A low frequency model for the aeroacoustic scattering of cylindrical tube rows in cross-flow. Journal of Sound and Vibration, 2022, 527, 116806.	3.9	1
28	Jet Pipe Reflections - Influence of Geometrical and Flow Exit Conditions. , 2010, , .		0
29	Scattering of sound waves at an area expansion in a cylindrical flow duct. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
30	Predicting the pass-by signature of vehicle sound sources including the influence of nearby built environment. Proceedings of Meetings on Acoustics, 2017, , .	0.3	0
31	Pass-by noise signature of aerodynamic sound sources in urban environment: A numerical approach. , 2017, , .		0