

Richard Raspet

List of Publications by Year in descending order

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116
papers

2,695
citations

172207

29
h-index

223531

46
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157
all docs

157
docs citations

157
times ranked

1483
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrected Tilt Calculation for Atmospheric Pressure-Induced Seismic Noise. Applied Sciences (Switzerland), 2022, 12, 1247.	1.3	5
2	Analytical, computational, and experimental study of thermoviscous acoustic damping in perforated micro-electro-mechanical systems with flexible diaphragm. Journal of the Acoustical Society of America, 2021, 150, 2749-2756.	0.5	2
3	Thermo-viscous acoustic modeling of perforated micro-electro-mechanical systems (MEMS). Journal of the Acoustical Society of America, 2020, 148, 2376-2385.	0.5	9
4	Wind-Induced Ground Motion: Dynamic Model and Nonuniform Structure for Ground. Journal of Geophysical Research: Solid Earth, 2019, 124, 8478-8490.	1.4	5
5	Acoustic end corrections for micro-perforated plates. Journal of the Acoustical Society of America, 2019, 146, EL399-EL404.	0.5	11
6	INFLUENCE OF GROUND INHOMOGENEITY ON WIND INDUCED GROUND VIBRATIONS. , 2018, , .		0
7	ELASTODYNAMIC RESPONSE OF THE GROUND SURFACE CAUSED BY WIND. , 2018, , .		0
8	Acoustic frequency response method for the measurement of fast adsorption " Diffusion processes. Theoretical treatment. Chemical Engineering Science, 2017, 164, 1-16.	1.9	2
9	Wind-Induced ground motion. Journal of Geophysical Research: Solid Earth, 2016, 121, 917-930.	1.4	26
10	Calculated wind noise for an infrasonic wind noise enclosure. Journal of the Acoustical Society of America, 2015, 138, 332-343.	0.5	7
11	Infrasonic wind noise under a deciduous tree canopy. Journal of the Acoustical Society of America, 2015, 137, 2670-2677.	0.5	4
12	Wind noise under a pine tree canopy. Journal of the Acoustical Society of America, 2015, 137, 651-659.	0.5	11
13	Wind fence enclosures for infrasonic wind noise reduction. Journal of the Acoustical Society of America, 2015, 137, 1265-1273.	0.5	8
14	Analysis of wind noise reduction by semi-porous fabric domes. Proceedings of Meetings on Acoustics, 2014, , .	0.3	3
15	Infrasonic wind noise reduction via porous fabric domes. Proceedings of Meetings on Acoustics, 2014, , .	0.3	3
16	Improved prediction of the turbulence-shear contribution to wind noise pressure spectra. Journal of the Acoustical Society of America, 2011, 130, 3590-3594.	0.5	14
17	Wind noise measured at the ground surface. Journal of the Acoustical Society of America, 2011, 129, 622-632.	0.5	25
18	Contributions of turbulence to subsonic cavity flow wall pressures. Physics of Fluids, 2011, 23, 015104.	1.6	7

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19	Measurement of wind noise levels in streamlined probes. Journal of the Acoustical Society of America, 2010, 127, 2764-2770.	0.5	2
20	Thermoacoustic properties of fibrous materials. Journal of the Acoustical Society of America, 2010, 127, 3470-3484.	0.5	10
21	Thermoacoustic power conversion using a piezoelectric transducer. Journal of the Acoustical Society of America, 2010, 128, 98-103.	0.5	35
22	Evanescent modes and anomalous streaming in a thermoacoustic device. Applied Acoustics, 2008, 69, 23-30.	1.7	4
23	Low frequency wind noise contributions in measurement microphones. Journal of the Acoustical Society of America, 2008, 123, 1260-1269.	0.5	29
24	Parallel capillary-tube-based extension of thermoacoustic theory for random porous media. Journal of the Acoustical Society of America, 2007, 121, 1413-1422.	0.5	34
25	On the speed of sound in the atmosphere as a function of altitude and frequency. Journal of Geophysical Research, 2007, 112, .	3.3	17
26	Framework for wind noise studies. Journal of the Acoustical Society of America, 2006, 119, 834.	0.5	45
27	Temperature gradient integration in thermoacoustic stacks. Applied Acoustics, 2006, 67, 689-699.	1.7	6
28	Time Domain Propagation of Sonic Booms. AIP Conference Proceedings, 2006, , .	0.3	0
29	Hanging-Picture Instability. Physics Teacher, 2005, 43, 298-301.	0.2	0
30	Infrasonic wind-noise reduction by barriers and spatial filters. Journal of the Acoustical Society of America, 2003, 114, 1379-1386.	0.5	38
31	Photoacoustic and filter-based ambient aerosol light absorption measurements: Instrument comparisons and the role of relative humidity. Journal of Geophysical Research, 2003, 108, AAC 15-1.	3.3	172
32	Evaporationâ€Condensation Effects on Resonant Photoacoustics of Volatile Aerosols. Journal of Atmospheric and Oceanic Technology, 2003, 20, 685-695.	0.5	45
33	Roughness Measurements of Soil Surfaces by Acoustic Backscatter. Soil Science Society of America Journal, 2003, 67, 241-250.	1.2	14
34	Roughness Measurements of Soil Surfaces by Acoustic Backscatter. Soil Science Society of America Journal, 2003, 67, 241.	1.2	9
35	Application of an acoustic backscatter technique for characterizing the roughness of porous soil. Journal of the Acoustical Society of America, 2002, 111, 1565-1577.	0.5	5
36	Theory of inert gas-condensing vapor thermoacoustics: Propagation equation. Journal of the Acoustical Society of America, 2002, 112, 1414-1422.	0.5	52

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37	Modification of sonic boom wave forms during propagation from the source to the ground. Journal of the Acoustical Society of America, 2002, 111, 481-486.	0.5	26
38	Theory of inert gas-condensing vapor thermoacoustics: Transport equations. Journal of the Acoustical Society of America, 2002, 112, 1423-1430.	0.5	28
39	Acoustic streaming in closed thermoacoustic devices. Journal of the Acoustical Society of America, 2001, 110, 1808-1821.	0.5	80
40	Roughness characterization of porous soil with acoustic backscatter. Journal of the Acoustical Society of America, 2001, 109, 1826-1832.	0.5	10
41	Ballistic seed projection in two herbaceous species. American Journal of Botany, 2000, 87, 1257-1264.	0.8	37
42	The effect of the physical properties of the tube wall on the attenuation of sound in evaporating and condensing gas-vapor mixtures. Journal of the Acoustical Society of America, 2000, 108, 2120-2124.	0.5	11
43	Scattering of sonic booms by anisotropic turbulence in the atmosphere. Journal of the Acoustical Society of America, 2000, 107, 3059-3064.	0.5	11
44	Effects of thermal diffusion on sound attenuation in evaporating and condensing gas-vapor mixtures in tubes. Journal of the Acoustical Society of America, 2000, 107, 1126-1130.	0.5	18
45	Ballistic seed projection in two herbaceous species. American Journal of Botany, 2000, 87, 1257-64.	0.8	4
46	The effect of evaporation-condensation on sound propagation in cylindrical tubes using the low reduced frequency approximation. Journal of the Acoustical Society of America, 1999, 105, 65-73.	0.5	35
47	Experimental study of a radial mode thermoacoustic prime mover. Journal of the Acoustical Society of America, 1999, 105, 2652-2662.	0.5	13
48	Working gases in thermoacoustic engines. Journal of the Acoustical Society of America, 1999, 105, 2677-2684.	0.5	59
49	Measurement and analysis of sound levels from a RASS site near Barrow, Alaska. Applied Acoustics, 1998, 53, 333-347.	1.7	1
50	A new approximation method for thermoacoustic calculations. Journal of the Acoustical Society of America, 1998, 103, 2395-2402.	0.5	30
51	Grazing incidence propagation over a soft rough surface. Journal of the Acoustical Society of America, 1997, 102, 55-59.	0.5	10
52	Estimation of temperature gradient effects on the normalized surface impedance of soils. Journal of the Acoustical Society of America, 1997, 101, 602-605.	0.5	0
53	Use of the fast field program for predicting diffraction of sound by curved surfaces. Journal of the Acoustical Society of America, 1997, 102, 646-649.	0.5	2
54	Meteorology and elephant infrasound at Etosha National Park, Namibia. Journal of the Acoustical Society of America, 1997, 101, 1710-1717.	0.5	33

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55	Temperature discontinuities between elements of thermoacoustic devices. <i>Journal of the Acoustical Society of America</i> , 1997, 102, 3355-3360.	0.5	31
56	The influence of surface atmospheric conditions on the range and area reached by animal vocalizations. <i>Journal of Experimental Biology</i> , 1997, 200, 421-31.	0.8	80
57	The surface impedance of grounds with exponential porosity profiles. <i>Journal of the Acoustical Society of America</i> , 1996, 99, 147-152.	0.5	23
58	Radial wave thermoacoustic engines: Theory and examples for refrigerators and high-gain narrow-bandwidth photoacoustic spectrometers. <i>Journal of the Acoustical Society of America</i> , 1996, 99, 734-745.	0.5	12
59	Comparison of computer codes for the propagation of sonic boom waveforms through isothermal atmospheres. <i>Journal of the Acoustical Society of America</i> , 1996, 100, 3017-3027.	0.5	54
60	Investigation of parametric drive of a longitudinal gas-filled resonance tube. <i>Journal of the Acoustical Society of America</i> , 1996, 99, 725-729.	0.5	1
61	Acoustic characterization of rigid-frame air-filled porous media using both reflection and transmission measurements. <i>Journal of the Acoustical Society of America</i> , 1996, 99, 1326-1332.	0.5	10
62	Benchmark cases for outdoor sound propagation models. <i>Journal of the Acoustical Society of America</i> , 1995, 97, 173-191.	0.5	109
63	Experimental study of a thermoacoustic termination of a traveling-wave tube. <i>Journal of the Acoustical Society of America</i> , 1995, 98, 1623-1628.	0.5	8
64	Calculation of average turbulence effects on sound propagation based on the fast field program formulation. <i>Journal of the Acoustical Society of America</i> , 1995, 97, 147-153.	0.5	8
65	Sonic boom propagation through a realistic turbulent atmosphere. <i>Journal of the Acoustical Society of America</i> , 1995, 98, 3412-3417.	0.5	27
66	Experimental determination of wind speed and direction using a three microphone array. <i>Journal of the Acoustical Society of America</i> , 1995, 97, 695-696.	0.5	15
67	The effect of realistic ground impedance on the accuracy of ray tracing. <i>Journal of the Acoustical Society of America</i> , 1995, 97, 154-158.	0.5	15
68	Atmospheric controls on elephant communication. <i>Journal of Experimental Biology</i> , 1995, 198, 939-51.	0.8	54
69	Statistical and numerical study of the relationship between turbulence and sonic boom characteristics. <i>Journal of the Acoustical Society of America</i> , 1994, 96, 3621-3626.	0.5	13
70	Stability analysis of a helium-filled thermoacoustic engine. <i>Journal of the Acoustical Society of America</i> , 1994, 96, 370-375.	0.5	36
71	Models of female choice in acoustic communication. <i>Behavioral Ecology</i> , 1994, 5, 293-303.	1.0	60
72	Low frequency acoustic ground impedance measurement techniques. <i>Applied Acoustics</i> , 1993, 39, 307-325.	1.7	6

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73	Finding the direction of a sound source using a vector soundâ€™intensity probe. Journal of the Acoustical Society of America, 1993, 94, 2408-2412.	0.5	26
74	Thermoacoustics of traveling waves: Theoretical analysis for an inviscid ideal gas. Journal of the Acoustical Society of America, 1993, 94, 2232-2239.	0.5	24
75	An improved procedure for the determination of ground parameters using level difference measurements. Journal of the Acoustical Society of America, 1993, 94, 396-399.	0.5	19
76	Comments on â€˜â€˜The influence of wind and temperature gradients on sound propagation, calculated with the two way wave equationsâ€™â€™ [J. Acoust. Soc. Am. 87, 1987â€“1998 (1990)]. Journal of the Acoustical Society of America, 1992, 91, 498-500.	0.5	5
77	Scattering of sound by atmospheric turbulence: Predictions in a refractive shadow zone. Journal of the Acoustical Society of America, 1992, 91, 1336-1340.	0.5	18
78	Specific acoustic impedance measurements of an airâ€™filled thermoacoustic prime mover. Journal of the Acoustical Society of America, 1992, 92, 3432-3434.	0.5	12
79	The effect of largeâ€™scale atmospheric inhomogeneities on acoustic propagation. Journal of the Acoustical Society of America, 1992, 92, 1040-1046.	0.5	12
80	Comparison of sonic boom rise time prediction techniques. Journal of the Acoustical Society of America, 1992, 91, 1767-1768.	0.5	7
81	Normal mode solution for lowâ€™frequency sound propagation in a downward refracting atmosphere above a complex impedance plane. Journal of the Acoustical Society of America, 1992, 91, 1341-1352.	0.5	28
82	Investigation of the mechanisms of lowâ€™frequency wind noise generation outdoors. Journal of the Acoustical Society of America, 1992, 92, 1180-1183.	0.5	65
83	General formulation of thermoacoustics for stacks having arbitrarily shaped pore cross sections. Journal of the Acoustical Society of America, 1991, 90, 3228-3237.	0.5	173
84	Measurement and calculation of acoustic propagation constants in arrays of small air-filled rectangular tubes. Journal of the Acoustical Society of America, 1991, 89, 2617-2624.	0.5	36
85	Scattering of sound by atmospheric turbulence: A numerical simulation above a complex impedance boundary. Journal of the Acoustical Society of America, 1991, 90, 3314-3325.	0.5	19
86	Sound propagation in capillaryâ€™tubeâ€™type porous media with small pores in the capillary walls. Journal of the Acoustical Society of America, 1991, 90, 3299-3306.	0.5	16
87	Acoustic propagation through a turbulent atmosphere: Experimental characterization. Journal of the Acoustical Society of America, 1991, 90, 3307-3313.	0.5	23
88	A numerical method for general finite amplitude wave propagation in two dimensions and its application to spark pulses. Journal of the Acoustical Society of America, 1991, 90, 2683-2691.	0.5	49
89	The relationship between upward refraction above a complex impedance plane and the spherical wave evaluation for a homogeneous atmosphere. Journal of the Acoustical Society of America, 1991, 89, 107-114.	0.5	15
90	Dispersion of impulse sound above a curved surface. Journal of the Acoustical Society of America, 1991, 89, 101-106.	0.5	0

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91	Reduction of Wind Noise for Unattended Blast Noise Monitoring. Noise Control Engineering Journal, 1990, 34, 77.	0.2	6
92	Calculation of turbulence effects in an upwardâ€refracting atmosphere. Journal of the Acoustical Society of America, 1990, 87, 2428-2437.	0.5	69
93	Absorbing boundary conditions for a spherical monopole in a set of twoâ€dimensional acoustics equations. Journal of the Acoustical Society of America, 1990, 87, 2422-2427.	0.5	7
94	Optoacoustic observation of internal relaxation in liquid CS ₂ . Journal of the Acoustical Society of America, 1989, 85, 2405-2409.	0.5	2
95	The acoustic surface wave above a complex impedance ground surface. Journal of the Acoustical Society of America, 1989, 85, 638-640.	0.5	13
96	Application of the fast field program to the prediction of average noise levels around sources. Applied Acoustics, 1989, 27, 217-226.	1.7	5
97	Investigation of possibility of damage from the acoustically coupled seismic waveform from blast and artillery. Journal of the Acoustical Society of America, 1988, 84, 1478-1482.	0.5	9
98	Residue series solution of impulse noise propagation into a shadow zone. Journal of the Acoustical Society of America, 1988, 83, 1964-1967.	0.5	9
99	Numerical predictions of atmospheric soundâ€pressure levels in shadow zones. Journal of the Acoustical Society of America, 1988, 83, 816-820.	0.5	8
100	Influence of ground reflection on measurements involving bands of noise. Journal of the Acoustical Society of America, 1988, 84, 2275-2277.	0.5	0
101	A turbulence model for sound propagation from an elevated source above level ground. Journal of the Acoustical Society of America, 1987, 81, 638-646.	0.5	35
102	Propagation of medium strength shock waves through the atmosphere. Journal of the Acoustical Society of America, 1987, 82, 306-310.	0.5	28
103	The reduction of blast overpressures from aqueous foam in a rigid confinement. Applied Acoustics, 1987, 22, 35-45.	1.7	16
104	The effect of material properties on reducing intermediate blast noise. Applied Acoustics, 1987, 22, 243-259.	1.7	13
105	Reduction of artillery noise by natural barriers. Applied Acoustics, 1986, 19, 117-130.	1.7	3
106	Diffraction of an explosive transient. Journal of the Acoustical Society of America, 1986, 79, 1326-1334.	0.5	6
107	Impedance formulation of the fast field program for acoustic wave propagation in the atmosphere. Journal of the Acoustical Society of America, 1986, 79, 628-634.	0.5	54
108	Investigation of the dependence of excess attenuation of aircraft noise on distance. Journal of the Acoustical Society of America, 1986, 80, S8-S9.	0.5	0

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109	A fast-field program for sound propagation in a layered atmosphere above an impedance ground. Journal of the Acoustical Society of America, 1985, 77, 345-352.	0.5	62
110	Additional Comments on and Erratum for "Effect of finite ground impedance on the propagation of acoustic pulses" [J. Acoust. Soc. Am. 74, 267-274 (1983)]. Journal of the Acoustical Society of America, 1985, 77, 1955-1958.	0.5	5
111	The reduction of blast noise with aqueous foam. Journal of the Acoustical Society of America, 1983, 74, 1757-1763.	0.5	43
112	Effect of vibrational relaxation on rise times of shock waves in the atmosphere. Journal of the Acoustical Society of America, 1983, 74, 1514-1517.	0.5	23
113	An analysis of community complaints to noise. Journal of the Acoustical Society of America, 1983, 73, 1229-1235.	0.5	18
114	Effect of finite ground impedance on the propagation of acoustic pulses. Journal of the Acoustical Society of America, 1983, 74, 267-274.	0.5	16
115	Vibrational relaxation effects on the atmospheric attenuation and rise times of explosion waves. Journal of the Acoustical Society of America, 1978, 64, 1208-1210.	0.5	16
116	Shock Waves, Blast Waves, and Sonic Booms. , 0, , 329-339.		2