Colin H Hansen

List of Publications by Year
in descending order

151 papers	3,891 citations	126708 33 h-index	189595 50 g-index
181 all docs	181 docs citations	181 times ranked	1693 citing authors

#	Article	IF	Citations
1	Beyond traditional wind farm noise characterisation using transfer learning. JASA Express Letters, 2022, 2, 052801.	0.5	1
2	Long-term quantification and characterisation of wind farm noise amplitude modulation. Measurement: Journal of the International Measurement Confederation, 2021, 182, 109678.	2.5	13
3	Benchmark characterisation and automated detection of wind farm noise amplitude modulation. Applied Acoustics, 2021, 183, 108286.	1.7	2
4	Recent Advances in Wind Turbine Noise Research. Acoustics, 2020, 2, 171-206.	0.8	35
5	Investigation of a microphone height correction for long-range wind farm noise measurements. Applied Acoustics, 2019, 155, 97-110.	1.7	3
6	Prevalence of wind farm amplitude modulation at long-range residential locations. Journal of Sound and Vibration, 2019, 455, 136-149.	2.1	20
7	Experimental and numerical investigation of bladeâ€“tower interaction noise. Journal of Sound and Vibration, 2019, 443, 362-375.	2.1	15
8	A Review of the Potential Impacts of Wind Farm Noise on Sleep. Acoustics Australia, 2018, 46, 87-97.	1.4	28
9	Wind Farm Noise Uncertainty: Prediction, Measurement and Compliance Assessment. Acoustics Australia, 2018, 46, 59-67.	1.4	2
10	Analytical validation of an explicit finite element model of a rolling element bearing with a localised line spall. Journal of Sound and Vibration, 2018, 416, 94-110.	2.1	36
11	To sleep or not to sleep. . .. International Journal of Acoustics and Vibrations, 2017, 22, .	0.3	0
12	Characterisation of wind farm infrasound and low-frequency noise. Journal of Sound and Vibration, 2016, 370, 176-190.	2.1	39
13	Infrasound and Low-Frequency Noise from Wind Turbines. Lecture Notes in Mechanical Engineering, 2016, , 3-16.	0.3	7
14	An extensive review of vibration modelling of rolling element bearings with localised and extended defects. Journal of Sound and Vibration, 2015, 357, 300-330.	2.1	108
15	Prediction of Acoustic Loads on a Launch Vehicle: Nonunique Source Allocation Method. Journal of Spacecraft and Rockets, 2015, 52, 1478-1485.	1.3	7
16	Outdoor to indoor reduction of wind farm noise for rural residences. Building and Environment, 2015, 94, 764-772.	3.0	25
17	Effectiveness of a passive-active vibration isolation system with actuator constraints. Chinese Journal of Mechanical Engineering (English Edition), 2014, 27, 567-574.	1.9	1
18	Identification of low frequency wind turbine noise using secondary windscreens of various geometries. Noise Control Engineering Journal, 2014, 62, 69-82.	0.2	17

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19	Suppression of the stationary maglev vehicleâ€“bridge coupled resonance using a tuned mass damper. JVC/Journal of Vibration and Control, 2013, 19, 191-203.	1.5	33
20	Prediction of Acoustic Loads on a Launch Vehicle Fairing During Liftoff. Journal of Spacecraft and Rockets, 2013, 50, 159-168.	1.3	12
21	A RANS-based Statistical Noise Model for Trailing Edge Noise. , 2012, , .		5
22	Two-Dimensional and Three-Dimensional Acoustic Loading on Cylinders Due to a Point source. AIAA Journal, 2011, 49, 2421-2429.	1.5	4
23	Application of least mean square algorithm to suppression of maglev track-induced self-excited vibration. Journal of Sound and Vibration, 2011, 330, 5791-5811.	2.1	24
24	Suppression of maglev vehicleâ€“girder self-excited vibration using a virtual tuned mass damper. Journal of Sound and Vibration, 2011, 330, 883-901.	2.1	66
25	Engineering Noise Control, Fourth Edition. Noise Control Engineering Journal, 2010, 58, 465.	0.2	22
26	Suppression of Maglev Track-Induced Self-Excited Vibration Using an Adaptive Cancellation Algorithm. Applied Mechanics and Materials, 2010, 44-47, 586-590.	0.2	2
27	Review of Coupled Vibration Problems in EMS Maglev Vehicles. International Journal of Acoustics and Vibrations, 2010, 15, .	0.3	35
28	EGO shape optimization of horn-loaded loudspeakers. Optimization and Engineering, 2008, 9, 361-374.	1.3	9
29	High frequency spatial vibration control for complex structures. Applied Acoustics, 2008, 69, 933-944.	1.7	11
30	A Kalman filter approach to virtual sensing for active noise control. Mechanical Systems and Signal Processing, 2008, 22, 490-508.	4.4	80
31	Nonlinear Dynamics of Magnetic Bearing Systems. Journal of Intelligent Material Systems and Structures, 2008, 19, 1471-1491.	1.4	46
32	Actuator Design and Deployment. , 2008, , 1141-1165.		0
33	Development of a Transducer for Active Vibration Isolation Using Translational and Rotational Power Transmission as a Cost Function. Journal of Intelligent Material Systems and Structures, 2008, 19, 1229-1241.	1.4	3
34	Estimation of the number of rotor slots and rotor speed in induction motors using current, flux or vibration signature analysis. Australian Journal of Electrical and Electronics Engineering, 2008, 4, 259-268.	0.7	7
35	A moving zone of quiet for narrowband noise in a one-dimensional duct using virtual sensing. Journal of the Acoustical Society of America, 2007, 121, 1459-1470.	0.5	25
36	Detection of Broken Rotor Bar Faults and Effects of Loading in Induction Motors during Rundown. , 2007, , .		14

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37	High frequency spatial vibration control using method. Mechanical Systems and Signal Processing, 2007, 21, 1541-1560.	4.4	11
38	Optimal truncated model for vibration control design within a specified bandwidth. International Journal of Solids and Structures, 2007, 44, 4673-4689.	1.3	3
39	Active Nonlinear Vibration Absorber Design for Flexible Structures. International Journal of Acoustics and Vibrations, 2007, 12, .	0.3	3
40	Estimation of Static Eccentricity Severity in Induction Motors for On-Line Condition Monitoring. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	9
41	Stability and dynamics of a controlled van der Polâ€“Duffing oscillator. Chaos, Solitons and Fractals, 2006, 28, 555-570.	2.5	51
42	Non-linear normal modes and their bifurcation of a two DOF system with quadratic and cubic non-linearity. International Journal of Non-Linear Mechanics, 2006, 41, 1028-1038.	1.4	14
43	Implementation of active noise control in a multi-modal spray dryer exhaust stack. Applied Acoustics, 2006, 67, 28-48.	1.7	3
44	The response of a Duffingâ€“van der Pol oscillator under delayed feedback control. Journal of Sound and Vibration, 2006, 291, 644-655.	2.1	70
45	Dynamics of two delay coupled van der Pol oscillators. Mechanics Research Communications, 2006, 33, 614-627.	1.0	26
46	Detection of broken rotor bars in induction motor using starting-current analysis and effects of loading. IET Electric Power Applications, 2006, 153, 848.	1.4	72
47	Active vibration isolation experiments using translational and rotational power transmission as a cost function. Journal of the Acoustical Society of America, 2006, 120, 2004-2016.	0.5	6
48	Investigation of Static Eccentricity Fault Frequencies using Multiple Sensors in Induction Motors and Effects of Loading. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	9
49	The Application of Grey Relation Close Degree Model in the Fault Diagnosis. Lecture Notes in Computer Science, 2006, , 614-619.	1.0	1
50	On the approximate solution of a piecewise nonlinear oscillator under super-harmonic resonance. Journal of Sound and Vibration, 2005, 283, 467-474.	2.1	19
51	Comparison of models for predicting the transmission loss of plenum chambers. Applied Acoustics, 2005, 66, 810-828.	1.7	13
52	Vibro-acoustic noise control treatments for payload bays of launch vehicles: Discrete to fuzzy solutions. Applied Acoustics, 2005, 66, 1235-1261.	1.7	26
53	Forced phase-locked response of a nonlinear system with time delay after Hopf bifurcation. Chaos, Solitons and Fractals, 2005, 25, 461-473.	2.5	11
54	Optimal virtual sensing for active noise control in a rigid-walled acoustic duct. Journal of the Acoustical Society of America, 2005, 118, 3086-3093.	0.5	5

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55	Acoustic cluster control of noise radiated from a planar structure. Journal of the Acoustical Society of America, 2005, 117, 3686-3694.	0.5	11
56	Current and future industrial applications of active noise control. Noise Control Engineering Journal, 2005, 53, 181.	0.2	16
57	A tool for the optimisation of vibro-acosutic systems using a parallel genetic algorithm and a distributed computing network. Noise Control Engineering Journal, 2005, 53, 256.	0.2	3
58	Hopf Bifurcation of a Magnetic Bearing System with Time Delay. Journal of Vibration and Acoustics, Transactions of the ASME, 2005, 127, 362-369.	1.0	23
59	Effect of External Excitations on a Nonlinear System with Time Delay. Nonlinear Dynamics, 2005, 41, 385-402.	2.7	14
60	Active control analysis of mining vehicle cabin noise using finite element modelling. Journal of Sound and Vibration, 2004, 277, 277-297.	2.1	25
61	Analytical approximation of the primary resonance response of a periodically excited piecewise non-linearâ€“linear oscillator. Journal of Sound and Vibration, 2004, 278, 327-342.	2.1	10
62	Approximate solutions and chaotic motions of a piecewise nonlinearâ€“linear oscillator. Chaos, Solitons and Fractals, 2004, 20, 1121-1133.	2.5	11
63	Applying effort constraints on adaptive feedforward control using the active set method. Journal of Sound and Vibration, 2003, 260, 757-762.	2.1	11
64	Vibration analysis of waffle floors. Computers and Structures, 2003, 81, 15-26.	2.4	14
65	Virtual error sensing for active noise control in a one-dimensional waveguide:â€ƒ Performance prediction versus measurement (L). Journal of the Acoustical Society of America, 2003, 113, 35-38.	0.5	18
66	LOCAL BIFURCATION CONTROL IN A ROTOR-MAGNETIC BEARING SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 951-956.	0.7	6
67	Active Control of Enclosed Sound Fields Using Three-axis Energy Density Sensors: Rigid Walled Enclosures. International Journal of Acoustics and Vibrations, 2003, 8, .	0.3	2
68	A waveform synthesis algorithm for active control of transformer noise: implementation. Applied Acoustics, 2002, 63, 467-479.	1.7	33
69	Active Control of Sound Radiation by Structures Using Near-field Sensing Strategies. International Journal of Acoustics and Vibrations, 2002, 7, .	0.3	1
70	Active Control of Sound Radiation from a Small Transformer Using Near-field Sensing. International Journal of Acoustics and Vibrations, 2002, 7, .	0.3	1
71	Numerical Evaluation of a Decentralised Feedforward Active Control System for Electrical Transformer Noise. International Journal of Acoustics and Vibrations, 2002, 7, .	0.3	0
72	AN ALGORITHM FOR ACTIVE CONTROL OF TRANSFORMER NOISE WITH ON-LINE CANCELLATION PATH MODELLING BASED ON THE PERTURBATION METHOD. Journal of Sound and Vibration, 2001, 240, 647-665.	2.1	29

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73	NON-LINEAR OSCILLATIONS OF A ROTOR IN ACTIVE MAGNETIC BEARINGS. Journal of Sound and Vibration, 2001, 240, 599-612.	2.1	91
74	Active Structural-Acoustic Control of a Rocket Fairing Using Proof-Mass Actuators. Journal of Spacecraft and Rockets, 2001, 38, 219-225.	1.3	25
75	Active noise control in a free field with virtual sensors. Journal of the Acoustical Society of America, 2001, 109, 232-243.	0.5	43
76	A study of time-domain FXLMS algorithms with control output constraint. Journal of the Acoustical Society of America, 2001, 109, 2815-2823.	0.5	41
77	Minimizing wind effects on active control systems for attenuating outdoor transformer noise. Noise Control Engineering Journal, 2000, 48, 130.	0.2	6
78	Exhaust stack silencer design using finite element analysis. Noise Control Engineering Journal, 2000, 48, 113.	0.2	22
79	SECONDARY ACOUSTIC SOURCE TYPES FOR ACTIVE NOISE CONTROL IN FREE FIELD: MONOPOLES OR MULTIPOLES?. Journal of Sound and Vibration, 2000, 232, 1005-1009.	2.1	9
80	CALCULATION OF VIBRATORY POWER TRANSMISSION FOR USE IN ACTIVE VIBRATION CONTROL. Journal of Sound and Vibration, 2000, 233, 569-581.	2.1	23
81	ERRORS ARISING FROM THREE-DIMENSIONAL ENERGY DENSITY SENSING IN ONE-DIMENSIONAL SOUND FIELDS. Journal of Sound and Vibration, 2000, 236, 375-400.	2.1	21
82	ERRORS IN THE MEASUREMENT OF ACOUSTIC ENERGY DENSITY IN ONE-DIMENSIONAL SOUND FIELDS. Journal of Sound and Vibration, 2000, 236, 801-831.	2.1	10
83	NON-LINEAR RESPONSE OF A POST-BUCKLED BEAM SUBJECTED TO A HARMONIC AXIAL EXCITATION. Journal of Sound and Vibration, 2000, 237, 303-318.	2.1	32
84	A Modified Filtered-X LMS Algorithm for Active Control of Periodic Noise with On-Line Cancellation Path Modelling. Journal of Low Frequency Noise Vibration and Active Control, 2000, 19, 35-46.	1.3	9
85	Feasibility of feedback control of transmitted sound into a launch vehicle fairing using structural sensing and proof mass actuators. , 1999, , .		2
86	Structural radiation mode sensing for active control of sound radiation into enclosed spaces. Journal of the Acoustical Society of America, 1999, 106, 3732-3735.	0.5	21
87	Near-field sensing strategies for the active control of the sound radiated from a plate. Journal of the Acoustical Society of America, 1999, 106, 3394-3406.	0.5	20
88	Feedback control of structurally radiated sound into enclosed spaces using structural sensing. Journal of the Acoustical Society of America, 1999, 106, 2621-2628.	0.5	21
89	Finite Element Analysis of Active Vibration Isolation Using Vibrational Power as a Cost Function. International Journal of Acoustics and Vibrations, 1999, 4, .	0.3	3
90	THE TRANSMISSION OF VIBRATION THROUGH A COUPLED PERIODIC STRUCTURE. Journal of Sound and Vibration, 1998, 215, 63-79.	2.1	19

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91	A COMPARISON OF NEAR-FIELD ACOUSTIC ERROR SENSING STRATEGIES FOR THE ACTIVE CONTROL OF HARMONIC FREE FIELD SOUND RADIATION. Journal of Sound and Vibration, 1998, 215, 81-103.	2.1	20
92	Experimental determination of the total vibratory power transmission in an elastic beam. Journal of the Acoustical Society of America, 1998, 104, 898-906.	0.5	6
93	Active vibration control of waves in simple structures with multiple error sensors. Journal of the Acoustical Society of America, 1998, 103, 1673-1676.	0.5	3
94	Active control of sound transmission using structural error sensing. Journal of the Acoustical Society of America, 1998, 104, 2878-2889.	0.5	54
95	Power transmission from a vibrating body to a circular cylindrical shell through passive and active isolators. Journal of the Acoustical Society of America, 1997, 101, 1479-1491.	0.5	28
96	Practical Implementation Issues and Future Directions for Active Noise Control. Building Acoustics, 1997, 4, 153-179.	1.1	0
97	AN INVESTIGATION OF THE COUPLING LOSS FACTOR FOR A CYLINDER/PLATE STRUCTURE. Journal of Sound and Vibration, 1997, 199, 629-643.	2.1	8
98	ACTIVE CONTROL OF VIBRATION TRANSMISSION IN A CYLINDRICAL SHELL. Journal of Sound and Vibration, 1997, 203, 409-434.	2.1	11
99	Vorticity characteristics of the vibrational intensity field in an actively controlled thin plate. Journal of the Acoustical Society of America, 1996, 99, 942-953.	0.5	9
100	Use of genetic algorithms to optimize vibration actuator placement for active control of harmonic interior noise in a cylinder with floor structure. Noise Control Engineering Journal, 1996, 44, 169.	0.2	29
101	<title>Use of genetic algorithms for optimizing vibration actuator placement for minimizing sound transmission into enclosed spaces</title>. , 1996, , .		8
102	CALCULATING RESONANCE FREQUENCIES OF PERFORATED PANELS. Journal of Sound and Vibration, 1996, 196, 387-399.	2.1	29
103	Control of flexural vibration in stiffened structures using multiple piezoceramic actuators. Applied Acoustics, 1996, 49, 17-48.	1.7	25
104	Active control of vibratory power transmission along a semi-infinite plate. Journal of Sound and Vibration, 1995, 184, 585-610.	2.1	35
105	Wave propagation through cylinder/plate junctions. Journal of Sound and Vibration, 1995, 186, 447-461.	2.1	36
106	Control of Flexural Vibration in a Beam Using a Piezoceramic Actuator and an Angle Stiffener. Journal of Intelligent Material Systems and Structures, 1994, 5, 536-549.	1.4	7
107	Piezoelectric Crystal vs Point Force Excitation of Beams and Plates. Journal of Intelligent Material Systems and Structures, 1994, 5, 363-370.	1.4	5
108	The Design of Systems to Control Actively Periodic Sound Transmission Into Enclosed Spaces, Part I: Analytical Models. Journal of Sound and Vibration, 1994, 170, 433-449.	2.1	49

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109	The Design of Systems to Control Actively Periodic Sound Transmission Into Enclosed Spaces, Part II: Mechanisms and Trends. Journal of Sound and Vibration, 1994, 170, 451-472.	2.1	41
110	The effect of transfer function estimation errors on the filtered-x LMS algorithm. IEEE Transactions on Signal Processing, 1994, 42, 950-953.	3.2	153
111	Further Studies of the Dynamic Response of a Simply Supported Beam Excited by a Pair of Out-of-Phase Piezoelectric Actuators. Journal of Intelligent Material Systems and Structures, 1994, 5, 654-664.	1.4	16
112	The Effect of Error Sensor Location and Type on the Active Control of Beam Vibration. Journal of Sound and Vibration, 1993, 165, 497-510.	2.1	26
113	Effect Of End Conditions On The Active Control Of Beam Vibration. Journal of Sound and Vibration, 1993, 168, 429-448.	2.1	21
114	Active isolation of a vibration source from a thin beam using a single active mount. Journal of the Acoustical Society of America, 1993, 94, 1425-1434.	0.5	17
115	Active control of power flow from a vibrating rigid body to a flexible panel through two active isolators. Journal of the Acoustical Society of America, 1993, 93, 1947-1953.	0.5	19
116	A comparison of error sensor strategies for the active control of duct noise. Journal of the Acoustical Society of America, 1993, 94, 841-848.	0.5	18
117	Sound Transmission Loss of Corrugated and Fluted Panels. Noise Control Engineering Journal, 1993, 40, 187.	0.2	12
118	Convergence Characteristics of the Multiple Input, Multiple Output LMS Algorithm. Journal of Intelligent Material Systems and Structures, 1992, 3, 115-133.	1.4	2
119	A Study of the Response of a Simply Supported Beam to Excitation by a Piezoelectric Actuator. Journal of Intelligent Material Systems and Structures, 1992, 3, 3-16.	1.4	39
120	An experimental study of the active control of multipleâ€wave types in an elastic beam. Journal of the Acoustical Society of America, 1992, 92, 871-876.	0.5	20
121	Active control of higherâ€order acoustic modes in ducts. Journal of the Acoustical Society of America, 1992, 92, 244-257.	0.5	19
122	Total power flow from a vibrating rigid body to a thin panel through multiple elastic mounts. Journal of the Acoustical Society of America, 1992, 92, 895-907.	0.5	53
123	Active control of interior noise in model aircraft fuselages using piezoceramic actuators. AIAA Journal, 1992, 30, 2613-2617.	1.5	71
124	Active control of farâ€field sound radiated by a rectangular panelâ€”A general analysis. Journal of the Acoustical Society of America, 1992, 91, 2056-2066.	0.5	57
125	Design considerations for active noise control systems implementing the multiple input, multiple output lms algorithm. Journal of Sound and Vibration, 1992, 159, 157-174.	2.1	27
126	Use of a perforated panel for the active control of sound radiated from vibrating structures, I: Low-frequency analysis. Journal of Sound and Vibration, 1992, 156, 349-359.	2.1	8

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127	Active control of noise transmission through a panel into a cavity. III: Effect of the actuator location. Journal of the Acoustical Society of America, 1991, 90, 1493-1501.	0.5	29
128	Using multiple regression to optimize active noise control system design. Journal of Sound and Vibration, 1991, 148, 537-542.	2.1	25
129	Experiments on active control of sound radiation from a panel using a piezoceramic actuator. Journal of Sound and Vibration, 1991, 150, 179-190.	2.1	62
130	Mechanisms of active noise control by vibration sources. Journal of Sound and Vibration, 1991, 147, 519-525.	2.1	46
131	Sound attenuation in rectangular and circular cross-section ducts with flow and bulk-reacting liner. Journal of Sound and Vibration, 1991, 146, 47-80.	2.1	25
132	Active control of sound radiation from a vibrating rectangular panel by sound sources and vibration inputs: An experimental comparison. Journal of Sound and Vibration, 1991, 145, 195-215.	2.1	102
133	Active control of noise transmission through a panel into a cavity. II: Experimental study. Journal of the Acoustical Society of America, 1991, 90, 1488-1492.	0.5	62
134	Active control of total vibratory power flow in a beam. I: Physical system analysis. Journal of the Acoustical Society of America, 1991, 89, 200-209.	0.5	35
135	The influence of transducer transfer functions and acoustic time delays on the implementation of the LMS algorithm in active noise control systems. Journal of Sound and Vibration, 1990, 141, 409-424.	2.1	56
136	Active control of noise transmission through a panel into a cavity: I. Analytical study. Journal of the Acoustical Society of America, 1990, 87, 2098-2108.	0.5	134
137	An alternative mathematical description of the relationship between noise exposure and hearing loss. Journal of the Acoustical Society of America, 1990, 88, 2743-2754.	0.5	11
138	Active noise control in ducts: Some physical insights. Journal of the Acoustical Society of America, 1989, 86, 184-194.	0.5	40
139	Response of a cylindrical machine casing to oscillatory bearing forces. Journal of Sound and Vibration, 1982, 80, 179-192.	2.1	2
140	Flow resistance information for acoustical design. Applied Acoustics, 1980, 13, 357-391.	1.7	201
141	Near field measurement of the complex radiation impedance presented to a vibrating plate in a reverberant room containing a rotating diffuser. Journal of Sound and Vibration, 1980, 73, 79-101.	2.1	2
142	Measurements of the radiation impedance presented to a source in a reverberant room containing a rotating diffuser. Journal of the Acoustical Society of America, 1979, 65, 708-718.	0.5	3
143	Near field determination of the complex radiation efficiency and acoustic intensity distribution for a resonality vibrating surface. Journal of Sound and Vibration, 1979, 62, 93-110.	2.1	12
144	Optical holography for the study of sound radiation from vibrating surfaces. Journal of the Acoustical Society of America, 1976, 60, 543-555.	0.5	20

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145	Impedanceâ€tube calibration of a reverberant room for the measurement of sound power in tones. Journal of the Acoustical Society of America, 1976, 59, 1393-1398.	0.5	4
146	Nonlinear control of a parametrically excited system subject to actuator saturation. , 0, , .		1
147	Vibration Transducer Principles and Types of Vibration Transducers. , 0, , 444-454.		2
148	Sound Absorption in Rooms. , 0, , 1247-1256.		1
149	Sound Absorption in Enclosures. , 0, , 1115-1128.		3
150	Engineering Noise Control. , 0, , .		81
151	Room Acoustics. , 0, , 1240-1246.		1