David J Thompson

List of Publications by Year in descending order

201 papers	7,271 citations	41344 49 h-index	76900 74 g-index
204 all docs	204 docs citations	204 times ranked	2327 citing authors

#	Article	IF	Citations
1	Vibration reduction of a high-speed train floor using multiple dynamic vibration absorbers. Vehicle System Dynamics, 2022, 60, 2919-2940.	3.7	7
2	The distribution of pantograph aerodynamic noise on train external surfaces and the influence of flow. Applied Acoustics, 2022, 188, 108542.	3.3	4
3	Influence study of rail geometry and track properties on railway rolling noise. Journal of Sound and Vibration, 2022, 525, 116701.	3.9	3
4	Numerical Investigation of Flow-Induced Noise around a High-Speed Train Bogie in a Simplified Cavity. , 2022, , .		0
5	A transferable method for estimating the economic impacts of track interventions: Application to ground-borne noise reduction measures for whole sections of route. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 787-797.	2.0	2
6	Investigation of acoustic transmission beneath a railway vehicle by using statistical energy analysis and an equivalent source model. Mechanical Systems and Signal Processing, 2021, 150, 107296.	8.0	3
7	Combining the 2.5D FE-BE method and the TMM method to study the vibro-acoustics of acoustically treated rib-stiffened panels. Journal of Sound and Vibration, 2021, 493, 115825.	3.9	2
8	Modelling train-induced vibration of structures using a mixed-frame-of-reference approach. Journal of Sound and Vibration, 2021, 491, 115575.	3.9	6
9	Experimental study of noise mitigation measures on a slab track. Applied Acoustics, 2021, 172, 107630.	3.3	2
10	Aerodynamic noise of high-speed train pantographs: Comparisons between field measurements and an updated component-based prediction model. Applied Acoustics, 2021, 175, 107791.	3.3	14
11	An investigation into the effects of modelling assumptions on sound power radiated froma high-speed train wheelset. Journal of Sound and Vibration, 2021, 495, 115910.	3.9	13
12	Effect of different typical high speed train pantograph recess configurations on aerodynamic noise. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 573-585.	2.0	6
13	Analysis of the consistency of the Sperling index for rail vehicles based on different algorithms. Vehicle System Dynamics, 2021, 59, 313-330.	3.7	14
14	Wheelâ€“Rail Impact Loads, Noise and Vibration: A Review of Excitation Mechanisms, Prediction Methods and Mitigation Measures. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2021, , 3-40.	0.3	11
15	A modelling approach for noise transmission through extruded panels in railway vehicles. Journal of Sound and Vibration, 2021, 502, 116095.	3.9	3
16	A framework to predict the airborne noise inside railway vehicles with application to rolling noise. Applied Acoustics, 2021, 179, 108064.	3.3	5
17	A two-and-half dimensional finite element/boundary element model for predicting the vibro-acoustic behaviour of panels with poro-elastic media. Journal of Sound and Vibration, 2021, 505, 116147.	3.9	8
18	Improved indirect measurement of the dynamic stiffness of a rail fastener and its dependence on load and frequency. Construction and Building Materials, 2021, 304, 124588.	7.2	15

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19	A 2.5D acoustic finite element method applied to railway acoustics. Applied Acoustics, 2021, 182, 108270.	3.3	1
20	Measurements and modelling of dynamic stiffness of a railway vehicle primary suspension element and its use in a structure-borne noise transmission model. Applied Acoustics, 2021, 182, 108232.	3.3	7
21	Modelling Wheel/Rail Rolling Noise for a High-Speed Train Running on a Slab Track. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2021, , 613-620.	0.3	0
22	Effect of Ground Conditions and Microphone Position on Railway Noise Measurement Results. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2021, , 680-687.	0.3	0
23	Numerical Analysis on the Radiation Efficiency of an Extruded Panel for the Railway Vehicle Using the Waveguide Finite Element and Boundary Element Method. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2021, , 134-141.	0.3	0
24	Effect of train speed and track geometry on the ride comfort in high-speed railways based on ISO 2631-1. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2020, 234, 765-778.	2.0	22
25	The influence of vehicleâ€“track dynamic coupling on the fatigue failure of coil springs within the primary suspension of metro vehicles. Vehicle System Dynamics, 2020, 58, 1694-1710.	3.7	14
26	A mechanism for overcoming the effects of the internal resonances of coil springs on vibration transmissibility. Journal of Sound and Vibration, 2020, 471, 115145.	3.9	6
27	Measurements of the high frequency dynamic stiffness of railway ballast and subgrade. Journal of Sound and Vibration, 2020, 468, 115081.	3.9	14
28	Reply to â€œDiscussion on â€˜Eulerian models of the rotating flexible wheelset for high frequency railway dynamicsâ€™ [J. Sound Vib. 449 (2019) 300-314]â€• Journal of Sound and Vibration, 2020, 489, 115665.	3.9	2
29	The influence of track design on the rolling noise from trams. Applied Acoustics, 2020, 170, 107536.	3.3	5
30	Modelling wheel/rail rolling noise for a high-speed train running along an infinitely long periodic slab track. Journal of the Acoustical Society of America, 2020, 148, 174-190.	1.1	21
31	Design, analysis and experimental validation of high static and low dynamic stiffness mounts based on target force curves. International Journal of Non-Linear Mechanics, 2020, 126, 103559.	2.6	20
32	Using a 2.5D boundary element model to predict the sound distribution on train external surfaces due to rolling noise. Journal of Sound and Vibration, 2020, 486, 115599.	3.9	10
33	Dynamic wheel-rail interaction at high speed based on time-domain moving Green's functions. Journal of Sound and Vibration, 2020, 488, 115632.	3.9	19
34	Modelling of vibration and noise behaviour of embedded tram tracks using a wavenumber domain method. Journal of Sound and Vibration, 2020, 481, 115446.	3.9	7
35	Effect of cavity flow control on high-speed train pantograph and roof aerodynamic noise. Railway Engineering Science, 2020, 28, 54-74.	4.4	25
36	The shadow effect on the ground surface due to vibration transmission from a railway tunnel. Transportation Geotechnics, 2020, 23, 100335.	4.5	5

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37	Numerical investigations on the flow over cuboids with different aspect ratios and the emitted noise. Physics of Fluids, 2020, 32, .	4.0	18
38	Investigation of train-induced vibration and noise from a steel-concrete composite railway bridge using a hybrid finite element-statistical energy analysis method. Journal of Sound and Vibration, 2020, 471, 115197.	3.9	39
39	Numerical investigation of the effect of cavity flow on high speed train pantograph aerodynamic noise. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 201, 104159.	3.9	25
40	Numerical investigations on the flow over cubes with rounded corners and the noise emitted. Computers and Fluids, 2020, 202, 104521.	2.5	5
41	Differences between Euler-Bernoulli and Timoshenko beam formulations for calculating the effects of moving loads on a periodically supported beam. Journal of Sound and Vibration, 2020, 481, 115432.	3.9	26
42	On the target frequency for harvesting energy from track vibrations due to passing trains. Mechanical Systems and Signal Processing, 2019, 114, 212-223.	8.0	36
43	Train loading effects in railway geotechnical engineering: Ground response, analysis, measurement and interpretation. Transportation Geotechnics, 2019, 21, 100261.	4.5	18
44	Implications of the directivity of railway noise sources for their quantification using conventional beamforming. Journal of Sound and Vibration, 2019, 459, 114841.	3.9	14
45	Effect of wall proximity on the flow over a cube and the implications for the noise emitted. Physics of Fluids, 2019, 31, .	4.0	16
46	A comparison of ground vibration due to ballasted and slab tracks. Transportation Geotechnics, 2019, 21, 100256.	4.5	23
47	An engineering model for the prediction of the sound radiation from a railway track. Journal of Sound and Vibration, 2019, 461, 114921.	3.9	20
48	Directivity of sound radiated from baffled rectangular plates and plate strips. Applied Acoustics, 2019, 155, 309-324.	3.3	9
49	Numerical investigation of aerodynamic noise generated by circular cylinders in cross-flow at Reynolds numbers in the upper subcritical and critical regimes. International Journal of Aeroacoustics, 2019, 18, 470-495.	1.3	12
50	Pore pressure generation in a poro-elastic soil under moving train loads. Soil Dynamics and Earthquake Engineering, 2019, 125, 105711.	3.8	25
51	Wheelâ€“rail impact loads and noise generated at railway crossings â€“ Influence of vehicle speed and crossing dip angle. Journal of Sound and Vibration, 2019, 456, 119-136.	3.9	27
52	Eulerian models of the rotating flexible wheelset for high frequency railway dynamics. Journal of Sound and Vibration, 2019, 449, 300-314.	3.9	18
53	Application of a wavenumber domain numerical method to the prediction of the radiation efficiency and sound transmission of complex extruded panels. Journal of Sound and Vibration, 2019, 449, 98-120.	3.9	17
54	Modelling, simulation and evaluation of ground vibration caused by rail vehicles. Vehicle System Dynamics, 2019, 57, 936-983.	3.7	100

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55	The noise radiated by ballasted and slab tracks. Applied Acoustics, 2019, 151, 193-205.	3.3	15
56	Numerical Investigation of the Effect of various High-Speed Train Roof Configurations on Aerodynamic Noise. , 2019, , .		0
57	A model of a discretely supported railway track based on a 2.5D finite element approach. Journal of Sound and Vibration, 2019, 438, 153-174.	3.9	32
58	Investigation into the critical speed of ballastless track. Transportation Geotechnics, 2019, 18, 142-148.	4.5	27
59	Effect of rail dynamics on curve squeal under constant friction conditions. Journal of Sound and Vibration, 2019, 442, 183-199.	3.9	21
60	Influence of rail fastener stiffness on railway vehicle interior noise. Applied Acoustics, 2019, 145, 69-81.	3.3	32
61	Noise reduction for ballasted track: A comparative socio-economic assessment. International Journal of Transport Development and Integration, 2019, 3, 15-29.	0.9	4
62	Effect of aspect ratios on flow and noise from cuboids. , 2019, , .		1
63	Method for obtaining the wheelâ€“rail contact location and its application to the normal problem calculation through â€˜CONTACTâ€™. Vehicle System Dynamics, 2018, 56, 1734-1746.	3.7	11
64	A 2.5D finite element and boundary element model for the ground vibration from trains in tunnels and validation using measurement data. Journal of Sound and Vibration, 2018, 422, 373-389.	3.9	66
65	An assessment of mode-coupling and falling-friction mechanisms in railway curve squeal through a simplified approach. Journal of Sound and Vibration, 2018, 423, 126-140.	3.9	23
66	Energy transfer in a beam-framed structure using a modal method and a wave method at mid frequencies. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 79-95.	2.1	2
67	The flow and flow-induced noise behaviour of a simplified high-speed train bogie in the cavity with and without a fairing. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 759-773.	2.0	17
68	Estimation of track parameters and wheelâ€“rail combined roughness from rail vibration. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 1149-1167.	2.0	15
69	Experimental study of the treatment measures for rail corrugation on tracks with Egg fasteners in the Beijing metro. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 1360-1374.	2.0	20
70	Sound transmission loss properties of truss core extruded panels. Applied Acoustics, 2018, 131, 134-153.	3.3	30
71	Monitoring and repair of isolated trackbed defects on a ballasted railway. Transportation Geotechnics, 2018, 17, 61-68.	4.5	20
72	A State-of-the-Art Review of Curve Squeal Noise: Phenomena, Mechanisms, Modelling and Mitigation. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2018, , 3-41.	0.3	19

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73	Modelling of Ground-Borne Vibration When the Train Speed Approaches the Critical Speed. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2018, , 497-508.	0.3	3
74	Assessment of measurement-based methods for separating wheel and track contributions to railway rolling noise. Applied Acoustics, 2018, 140, 48-62.	3.3	32
75	A wavenumber domain numerical analysis of rail noise including the surface impedance of the ground. Journal of Sound and Vibration, 2018, 432, 173-191.	3.9	14
76	Effect of rounded corners on the flow and noise from a cube. , 2018, , .		0
77	A New Model for the Prediction of Track Sound Radiation. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2018, , 709-721.	0.3	1
78	Analysis of resonance effect for a railway track on a layered ground. Transportation Geotechnics, 2018, 16, 51-62.	4.5	7
79	Automated processing of railway track deflection signals obtained from velocity and acceleration measurements. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 2097-2110.	2.0	22
80	Reduction of aerodynamic noise from square bars by introducing spanwise waviness. Journal of Sound and Vibration, 2018, 435, 323-349.	3.9	19
81	Groundborne Railway Noise and Vibration in Buildings: Results of a Structural and Acoustic Parametric Study. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2018, , 193-204.	0.3	1
82	Hybrid Model for Prediction of Impact Noise Generated at Railway Crossings. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2018, , 759-769.	0.3	2
83	Prediction of rail and bridge noise arising from concrete railway viaducts by using a multilayer rail fastener model and a wavenumber domain method. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 1326-1346.	2.0	20
84	NOISE REDUCTION FOR BALLASTED TRACKS: A SOCIO-ECONOMIC ASSESSMENT. , 2018, , .		0
85	A semi-analytical beam model for the vibration of railway tracks. Journal of Sound and Vibration, 2017, 393, 321-337.	3.9	15
86	Component-based model to predict aerodynamic noise from high-speed train pantographs. Journal of Sound and Vibration, 2017, 394, 280-305.	3.9	42
87	The influence of soil nonlinear properties on the track/ground vibration induced by trains running on soft ground. Transportation Geotechnics, 2017, 11, 1-16.	4.5	58
88	A mixed space-time and wavenumber-frequency domain procedure for modelling ground vibration from surface railway tracks. Journal of Sound and Vibration, 2017, 400, 508-532.	3.9	14
89	The effect of track load correlation on ground-borne vibration from railways. Journal of Sound and Vibration, 2017, 402, 142-163.	3.9	27
90	Properties of train load frequencies and their applications. Journal of Sound and Vibration, 2017, 397, 123-140.	3.9	55

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91	The effects of ballast on the sound radiation from railway track. Journal of Sound and Vibration, 2017, 399, 137-150.	3.9	17
92	Anechoic wind tunnel tests on high-speed train bogie aerodynamic noise. International Journal of Rail Transportation, 2017, 5, 87-109.	2.7	33
93	On the spectrum of rail vibration generated by a passing train. Procedia Engineering, 2017, 199, 2657-2662.	1.2	1
94	Radiation Efficiency of Beam-stiffened Plate: Experimental Setup and Preliminary Results. Procedia Engineering, 2017, 170, 266-273.	1.2	3
95	Wavenumberâ€“domain separation of rail contribution to pass-by noise. Journal of Sound and Vibration, 2017, 409, 24-42.	3.9	13
96	Rail roughness and rolling noise in tramways. Journal of Physics: Conference Series, 2016, 744, 012147.	0.4	6
97	Sound power and vibration levels for two different piano soundboards. Journal of Physics: Conference Series, 2016, 744, 012091.	0.4	1
98	Reducing railway-induced ground-borne vibration by using open trenches and soft-filled barriers. Soil Dynamics and Earthquake Engineering, 2016, 88, 45-59.	3.8	84
99	Sound radiation from railway sleepers. Journal of Sound and Vibration, 2016, 369, 178-194.	3.9	20
100	The effect of boundary conditions, model size and damping models in the finite element modelling of a moving load on a track/ground system. Soil Dynamics and Earthquake Engineering, 2016, 89, 12-27.	3.8	60
101	Proving MEMS Technologies for Smarter Railway Infrastructure. Procedia Engineering, 2016, 143, 1077-1084.	1.2	31
102	Vibration properties of slab track installed on a viaduct. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2016, 230, 235-252.	2.0	9
103	Flow behaviour and aeroacoustic characteristics of a simplified high-speed train bogie. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2016, 230, 1642-1658.	2.0	29
104	Evaluating railway track support stiffness from trackside measurements in the absence of wheel load data. Canadian Geotechnical Journal, 2016, 53, 1156-1166.	2.8	62
105	Sound radiation of a railway rail in close proximity to the ground. Journal of Sound and Vibration, 2016, 362, 111-124.	3.9	28
106	The effect of temperature on railway rolling noise. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2016, 230, 1777-1789.	2.0	17
107	Experimental study of the aerodynamic noise radiated by cylinders with different cross-sections and yaw angles. Journal of Sound and Vibration, 2016, 361, 108-129.	3.9	27
108	Harvesting energy from the vibration of a passing train using a single-degree-of-freedom oscillator. Mechanical Systems and Signal Processing, 2016, 66-67, 785-792.	8.0	92

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109	Recent developments in the prediction and control of aerodynamic noise from high-speed trains. International Journal of Rail Transportation, 2015, 3, 119-150.	2.7	102
110	Experimental procedures for testing the performance of rail dampers. Journal of Sound and Vibration, 2015, 359, 21-39.	3.9	22
111	Mitigation of railway induced ground vibration by heavy masses next to the track. Soil Dynamics and Earthquake Engineering, 2015, 75, 158-170.	3.8	52
112	Mitigation of railway-induced vibration by using subgrade stiffening. Soil Dynamics and Earthquake Engineering, 2015, 79, 89-103.	3.8	55
113	A non-reflecting boundary for use in a finite element beam model of a railway track. Journal of Sound and Vibration, 2015, 337, 199-217.	3.9	7
114	A hybrid modelling approach for predicting ground vibration from trains. Journal of Sound and Vibration, 2015, 335, 147-173.	3.9	39
115	Use of a reciprocity technique to measure the radiation efficiency of a vibrating structure. Applied Acoustics, 2015, 89, 107-121.	3.3	13
116	A MIXED SPACE-TIME AND WAVENUMBER DOMAIN MODEL FOR PREDICTING GROUND VIBRATION FROM RAILWAY TRACS. , 2015, , .		1
117	The effect of different combinations of boundary conditions on the average radiation efficiency of rectangular plates. Journal of Sound and Vibration, 2014, 333, 3931-3948.	3.9	30
118	Validation of a prediction model for tangent rail roughness and noise growth. Wear, 2014, 314, 261-272.	3.1	11
119	Vertical random vibration analysis of vehicleâ€“track coupled system using Green's function method. Vehicle System Dynamics, 2014, 52, 362-389.	3.7	35
120	Time-domain prediction of impact noise from wheel flats based on measured profiles. Journal of Sound and Vibration, 2014, 333, 3981-3995.	3.9	24
121	Railway rolling noise prediction: field validation and sensitivity analysis. International Journal of Rail Transportation, 2013, 1, 109-127.	2.7	11
122	Velocity-dependent friction in a model of wheelâ€“rail rolling contact and wear. Vehicle System Dynamics, 2011, 49, 1791-1802.	3.7	11
123	Reply to Comments on Chapter 12 of â€œRailway Noise and Vibration: Mechanisms, Modelling and Means of Controlâ€, by D. Thompson (with contributions from C. Jones and P.-E. Gautier), Elsevier, 2009. Applied Acoustics, 2011, 72, 787-788.	3.3	2
124	Comparison of decentralized velocity feedback control for thin homogeneous and stiff sandwich panels using electrodynamic proof-mass actuators. Journal of Sound and Vibration, 2011, 330, 843-867.	3.9	17
125	Investigation of the dynamic contact filter effect in vertical wheel/rail interaction using a 2D and a 3D non-Hertzian contact model. Wear, 2011, 271, 328-338.	3.1	31
126	The horizontal directivity of noise radiated by a rail and implications for the use of microphone arrays. Journal of Sound and Vibration, 2010, 329, 202-220.	3.9	21

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127	Wheel/Rail Interaction and Excitation by Roughness. , 2009, , 127-173.		4
128	Sound Radiation from Wheels and Track. , 2009, , 175-222.		2
129	Aerodynamic Noise. , 2009, , 281-314.		0
130	Introduction to Rolling Noise. , 2009, , 11-27.		3
131	Curve Squeal Noise. , 2009, , 315-342.		10
132	Impact Noise. , 2009, , 343-358.		1
133	A waveguide finite element and boundary element approach to calculating the sound radiated by railway and tram rails. Journal of Sound and Vibration, 2009, 321, 813-836.	3.9	85
134	Predicting the effect of temperature on the performance of elastomer-based rail damping devices. Journal of Sound and Vibration, 2009, 322, 674-689.	3.9	14
135	Modelling the effect of rail dampers on wheelâ€“rail interaction forces and rail roughness growth rates. Journal of Sound and Vibration, 2009, 323, 17-32.	3.9	39
136	Can a transmission coefficient be greater than unity?. Applied Acoustics, 2009, 70, 681-688.	3.3	11
137	Mitigation Measures for Rolling Noise. , 2009, , 223-279.		2
138	A continuous damped vibration absorber to reduce broad-band wave propagation in beams. Journal of Sound and Vibration, 2008, 311, 824-842.	3.9	74
139	Investigations of propagating wave types in railway tracks at high frequencies. Journal of Sound and Vibration, 2008, 315, 157-175.	3.9	54
140	Structural waveguide behaviour of a beamâ€“plate system. Journal of Sound and Vibration, 2008, 318, 206-226.	3.9	7
141	The role of anti-resonance frequencies from operational modal analysis in finite element model updating. Mechanical Systems and Signal Processing, 2007, 21, 74-97.	8.0	34
142	A tuned damping device for reducing noise from railway track. Applied Acoustics, 2007, 68, 43-57.	3.3	92
143	Using the Fourier-series approach to study interactions between moving wheels and a periodically supported rail. Journal of Sound and Vibration, 2007, 303, 873-894.	3.9	64
144	Comparison of methods for parameter selection in Tikhonov regularization with application to inverse force determination. Journal of Sound and Vibration, 2007, 304, 894-917.	3.9	106

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145	Cyclostationarity and the cepstrum for operational modal analysis of mimo systemsâ€"Part I: Modal parameter identification. Mechanical Systems and Signal Processing, 2007, 21, 2441-2458.	8.0	43
146	Noise and Vibration from Railway Vehicles. , 2006, , 279-325.		6
147	A threshold for the use of Tikhonov regularization in inverse force determination. Applied Acoustics, 2006, 67, 700-719.	3.3	42
148	Selection of response measurement locations to improve inverse force determination. Applied Acoustics, 2006, 67, 797-818.	3.3	57
149	Comparison of wheel/rail noise radiation on Japanese railways using the TWINS model and microphone array measurements. Journal of Sound and Vibration, 2006, 293, 496-509.	3.9	40
150	Prediction of ground vibration from trains using the wavenumber finite and boundary element methods. Journal of Sound and Vibration, 2006, 293, 575-586.	3.9	241
151	On the rolling noise generation due to wheel/track parametric excitation. Journal of Sound and Vibration, 2006, 293, 566-574.	3.9	24
152	Simplified contact filters in wheel/rail noise prediction. Journal of Sound and Vibration, 2006, 293, 807-818.	3.9	24
153	Simulations of roughness initiation and growth on railway rails. Journal of Sound and Vibration, 2006, 293, 819-829.	3.9	36
154	The use of decay rates to analyse the performance of railway track in rolling noise generation. Journal of Sound and Vibration, 2006, 293, 485-495.	3.9	69
155	An investigation into the influence of longitudinal creepage on railway squeal noise due to lateral creepage. Journal of Sound and Vibration, 2006, 293, 766-776.	3.9	44
156	A modelling approach for the vibroacoustic behaviour of aluminium extrusions used in railway vehicles. Journal of Sound and Vibration, 2006, 293, 921-932.	3.9	36
157	Calculation of noise from railway bridges and viaducts: Experimental validation of a rapid calculation model. Journal of Sound and Vibration, 2006, 293, 933-943.	3.9	39
158	Variability of the coupling loss factor between two coupled plates. Journal of Sound and Vibration, 2005, 279, 557-579.	3.9	10
159	The radiation efficiency of baffled plates and strips. Journal of Sound and Vibration, 2005, 280, 181-209.	3.9	88
160	Responses of infinite periodic structures to moving or stationary harmonic loads. Journal of Sound and Vibration, 2005, 282, 125-149.	3.9	104
161	Modelling ground vibration from railways using wavenumber finite- and boundary-element methods. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2005, 461, 2043-2070.	2.1	115
162	Wheel/Rail Non-linear Interactions With Coupling Between Vertical and Lateral Directions. Vehicle System Dynamics, 2004, 41, 27-49.	3.7	20

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163	A theoretical study on the influence of the track on train-induced ground vibration. Journal of Sound and Vibration, 2004, 272, 909-936.	3.9	139
164	A theoretical model for ground vibration from trains generated by vertical track irregularities. Journal of Sound and Vibration, 2004, 272, 937-965.	3.9	208
165	Mode count and modal density of structural systems: relationships with boundary conditions. Journal of Sound and Vibration, 2004, 274, 621-651.	3.9	53
166	The influence of modal behaviour on the energy transmission between two coupled plates. Journal of Sound and Vibration, 2004, 276, 1019-1041.	3.9	9
167	On the parametric excitation of the wheel/track system. Journal of Sound and Vibration, 2004, 278, 725-747.	3.9	66
168	The quantification of structure-borne transmission paths by inverse methods. Part 1: Improved singular value rejection methods. Journal of Sound and Vibration, 2003, 264, 411-431.	3.9	148
169	The quantification of structure-borne transmission paths by inverse methods. Part 2: Use of regularization techniques. Journal of Sound and Vibration, 2003, 264, 433-451.	3.9	117
170	Identification, modelling and reduction potential of railway noise sources: a critical survey. Journal of Sound and Vibration, 2003, 267, 447-468.	3.9	77
171	On the impact noise generation due to a wheel passing over rail joints. Journal of Sound and Vibration, 2003, 267, 485-496.	3.9	76
172	Extended validation of a theoretical model for railway rolling noise using novel wheel and track designs. Journal of Sound and Vibration, 2003, 267, 509-522.	3.9	36
173	The influence of the contact zone on the excitation of wheel/rail noise. Journal of Sound and Vibration, 2003, 267, 523-535.	3.9	30
174	A comparison of a theoretical model for quasi-statically and dynamically induced environmental vibration from trains with measurements. Journal of Sound and Vibration, 2003, 267, 621-635.	3.9	169
175	Investigation into the validity of two-dimensional models for sound radiation from waves in rails. Journal of the Acoustical Society of America, 2003, 113, 1965-1974.	1.1	36
176	A HYBRID MODEL FOR THE NOISE GENERATION DUE TO RAILWAY WHEEL FLATS. Journal of Sound and Vibration, 2002, 251, 115-139.	3.9	134
177	SOUND RADIATION FROM A VIBRATING RAILWAY WHEEL. Journal of Sound and Vibration, 2002, 253, 401-419.	3.9	51
178	VIBRATION ANALYSIS OF RAILWAY TRACK WITH MULTIPLE WHEELS ON THE RAIL. Journal of Sound and Vibration, 2001, 239, 69-97.	3.9	87
179	DYNAMIC STIFFNESS FORMULATION, FREE VIBRATION AND WAVE MOTION OF HELICAL SPRINGS. Journal of Sound and Vibration, 2001, 239, 297-320.	3.9	90
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181	The effects on railway rolling noise of wave reflections in the rail and support stiffening due to the presence of multiple wheels. Applied Acoustics, 2001, 62, 1249-1266.	3.3	14
182	A REVIEW OF THE MODELLING OF WHEEL/RAIL NOISE GENERATION. Journal of Sound and Vibration, 2000, 231, 519-536.	3.9	185
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