Brian R Mace

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Dynamic analysis of the response of Duffing-type oscillators subject to interacting parametric and external excitations. Nonlinear Dynamics, 2022, 107, 99-120.	2.7	8
2	Analysis of the forced response of coupled panels using a hybrid finite element/wave and finite element method. Journal of Sound and Vibration, 2022, 537, 117174.	2.1	4
3	Reflection of waves in a waveguide from a boundary with nonlinear stiffness: application to axial and flexural vibrations. Nonlinear Dynamics, 2022, 109, 3051-3082.	2.7	2
4	Ranking of sound transmission paths by wave and finite element analysis. Journal of Sound and Vibration, 2021, 492, 115765.	2.1	4
5	Analysis of the vibroacoustic characteristics of cross laminated timber panels using a wave and finite element method. Journal of Sound and Vibration, 2021, 494, 115842.	2.1	17
6	A wave and finite element method for calculating sound transmission through rectangular panels. Mechanical Systems and Signal Processing, 2021, 151, 107357.	4.4	8
7	Modeling and harmonic analysis of energy extracting performance of a piezoelectric nonlinear energy sink system with AC and DC interface circuits. Mechanical Systems and Signal Processing, 2021, 155, 107609.	4.4	12
8	Wave and vibration analysis of elastic metamaterial and phononic crystal beams with slowly varying properties. Wave Motion, 2021, 103, 102728.	1.0	17
9	Mode transition in a standing-wave thermoacoustic engine: A numerical study. Journal of Sound and Vibration, 2021, 504, 116119.	2.1	22
10	Multi-physics coupling in thermoacoustic devices: A review. Renewable and Sustainable Energy Reviews, 2021, 146, 111170.	8.2	74
11	Numerical investigation of synthetic jets driven by thermoacoustic standing waves. International Journal of Heat and Mass Transfer, 2020, 146, 118859.	2.5	27
12	On the behaviour of infinite, periodic, mono-coupled waveguides using a transmission coefficient phase method. Mechanical Systems and Signal Processing, 2020, 135, 106409.	4.4	6
13	Response of linear parametric amplifiers with arbitrary direct and parametric excitations. Mechanics Research Communications, 2020, 109, 103585.	1.0	3
14	Bistability and triggering in a thermoacoustic engine: A numerical study. International Journal of Heat and Mass Transfer, 2020, 157, 119951.	2.5	30
15	Vibration energy harvesting based on a piezoelectric nonlinear energy sink with synchronized charge extraction interface circuit. Journal Physics D: Applied Physics, 2020, 53, 505502.	1.3	10
16	Sensitivity analysis of generalised eigenproblems and application to wave and finite element models. Journal of Sound and Vibration, 2020, 478, 115345.	2.1	7
17	On the response attainable in nonlinear parametrically excited systems. Applied Physics Letters, 2019, 115, 154102.	1.5	5
18	A wave and finite element based homogenised model for predicting sound transmission through honeycomb panels. Journal of Sound and Vibration, 2019, 463, 114963.	2.1	18

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19	Vibroacoustic analysis of periodic structures using a wave and finite element method. Journal of Sound and Vibration, 2019, 457, 333-353.	2.1	29
20	Sound transmission through cylindrical structures using a wave and finite element method. Wave Motion, 2019, 87, 58-74.	1.0	21
21	Modelling and analysis of a thermoacoustic-piezoelectric energy harvester. Applied Thermal Engineering, 2019, 150, 532-544.	3.0	53
22	Wave and finite element method for predicting sound transmission through finite multi-layered structures with fluid layers. Computers and Structures, 2018, 204, 20-30.	2.4	21
23	Broadband piezoelectric vibration energy harvesting using a nonlinear energy sink. Journal Physics D: Applied Physics, 2018, 51, 185502.	1.3	55
24	Theoretical and experimental investigation of the dynamic behaviour of a standing-wave thermoacoustic engine with various boundary conditions. International Journal of Heat and Mass Transfer, 2018, 123, 367-381.	2.5	33
25	Estimating Power Spectral Density of Unmanned Aerial Vehicle Rotor Noise Using Multisensory Information. , 2018, , .		2
26	Improving Power Spectral Density Estimation of Unmanned Aerial Vehicle Rotor Noise by Learning from Non-Acoustic Information. , 2018, , .		5
27	A comprehensive study of 2:1 internal-resonance-based piezoelectric vibration energy harvesting. Nonlinear Dynamics, 2018, 91, 1817-1834.	2.7	68
28	Veering and Strong Coupling Effects in Structural Dynamics. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.0	20
29	Prediction of sound transmission through, and radiation from, panels using a wave and finite element method. Journal of the Acoustical Society of America, 2017, 141, 2452-2460.	0.5	47
30	System identification and controller design for individual pitch and trailing edge flap control on upscaled wind turbines. Wind Energy, 2016, 19, 1073-1088.	1.9	7
31	Internal resonance with commensurability induced by an auxiliary oscillator for broadband energy harvesting. Applied Physics Letters, 2016, 108, .	1.5	118
32	Application of the Wave and Finite Element Method to Calculate Sound Transmission Through Cylindrical Structures. Journal of Physics: Conference Series, 2016, 744, 012240.	0.3	4
33	A Robust Adaptive Tuned Vibration Absorber Using Semi-Passive Shunt Electronics. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	5.2	11
34	Exploiting knowledge of jump-up and jump-down frequencies to determine the parameters of a Duffing oscillator. Communications in Nonlinear Science and Numerical Simulation, 2016, 37, 282-291.	1.7	17
35	Wave propagation in one-dimensional waveguides with slowly varying random spatially correlated variability. Journal of Sound and Vibration, 2015, 343, 20-48.	2.1	24
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Discussion of "Dynamics of Phononic Materials and Structures: Historical Origins, Recent Progress and Future Outlook―(Hussein, M. I., Leamy, M. J., and Ruzzene, M., 2014, ASME Appl. Mech. Rev., 66(4), p.) Tj ETQq© 0 0 rgBT /Overloo

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37	Calculating the forced response of cylinders and cylindrical shells using the wave and finite element method. Journal of Sound and Vibration, 2014, 333, 5340-5355.	2.1	34
38	Modal characterisation of recyclable foam sandwich panels. Composite Structures, 2014, 113, 362-368.	3.1	29
39	Vibration modelling of structural networks using a hybrid finite element/wave and finite element approach. Wave Motion, 2014, 51, 566-580.	1.0	29
40	A model-based tuned vibration absorber with adaptive shunt electronics. , 2013, , .		0
41	The loss-factor of pre-stressed laminated curved panels and cylinders using a wave and finite element method. Journal of Sound and Vibration, 2013, 332, 1704-1711.	2.1	21
42	Calculation of reflection and transmission coefficients of joints using a hybrid finite element/wave and finite element approach. Journal of Sound and Vibration, 2013, 332, 2149-2164.	2.1	72
43	Behaviour of fibre-reinforced honeycomb core under low velocity impact loading. Composite Structures, 2013, 100, 356-362.	3.1	57
44	Slow motor neuron stimulation of locust skeletal muscle: model and measurement. Biomechanics and Modeling in Mechanobiology, 2013, 12, 581-596.	1.4	3
45	A wave finite element analysis of the passive cochlea. Journal of the Acoustical Society of America, 2013, 133, 1535-1545.	0.5	33
46	A self-tuning electromagnetic vibration absorber with adaptive shunt electronics. Smart Materials and Structures, 2013, 22, 105013.	1.8	34
47	Special Issue on "Advances in Active Control of Sound and Vibration†Editorial. Asian Journal of Control, 2013, 15, 1563-1565.	1.9	0
48	A Finite Element Method for Modelling Waves in Laminated Structures. Advances in Structural Engineering, 2013, 16, 61-75.	1.2	16
49	Wave motion and dispersion phenomena: Veering, locking and strong coupling effects. Journal of the Acoustical Society of America, 2012, 131, 1015-1028.	0.5	136
50	On the performance of a dual-mode non-linear vibration energy harvesting device. Journal of Intelligent Material Systems and Structures, 2012, 23, 1423-1432.	1.4	31
51	A comparison of models of the isometric force of locust skeletal muscle in response to pulse train inputs. Biomechanics and Modeling in Mechanobiology, 2012, 11, 519-532.	1.4	10
52	Vibration modelling of helical springs with non-uniform ends. Journal of Sound and Vibration, 2012, 331, 2809-2823.	2.1	24
53	Subject-specific musculoskeletal parameters of wrist flexors and extensors estimated by an EMG-driven musculoskeletal model. Medical Engineering and Physics, 2012, 34, 531-540.	0.8	24
54	Calculating the forced response of two-dimensional homogeneous media using the wave and finite element method. Journal of Sound and Vibration, 2011, 330, 5913-5927.	2.1	33

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55	A tubular dielectric elastomer actuator: Fabrication, characterization and active vibration isolation. Mechanical Systems and Signal Processing, 2011, 25, 2879-2891.	4.4	83
56	Modelling the isometric force response to multiple pulse stimuli in locust skeletal muscle. Biological Cybernetics, 2011, 104, 121-136.	0.6	5
57	Modelling of spatial variations in vibration analysis with application to an automotive windshield. Finite Elements in Analysis and Design, 2011, 47, 55-62.	1.7	14
58	Formation and coupling of band gaps in a locally resonant elastic system comprising a string with attached resonators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1485-1491.	0.9	127
59	Influence of disturbances on the control of PC-mouse, goal-directed arm movements. Medical Engineering and Physics, 2010, 32, 974-984.	0.8	1
60	lsometric force generated by locust skeletal muscle: responses to single stimuli. Biological Cybernetics, 2010, 102, 503-511.	0.6	11
61	Potential benefits of a non-linear stiffness in an energy harvesting device. Nonlinear Dynamics, 2010, 59, 545-558.	2.7	364
62	Estimation of the loss factor of viscoelastic laminated panels from finite element analysis. Journal of Sound and Vibration, 2010, 329, 3928-3939.	2.1	65
63	On the forced response of waveguides using the wave and finite element method. Journal of Sound and Vibration, 2010, 329, 5474-5488.	2.1	76
64	Identifying joints from measured reflection coefficients in beam-like structures with application to a pipe support. Mechanical Systems and Signal Processing, 2010, 24, 784-795.	4.4	7
65	Active vibration control of periodic disturbances using a DEAP damper. Proceedings of SPIE, 2010, , .	0.8	8
66	A predictive model of the isometric force response of the locust extensor muscle. , 2010, 2010, 4517-20.		0
67	An EMG-driven musculoskeletal model for the estimation of biomechanical parameters of wrist flexors. , 2010, 2010, 4870-3.		3
68	Wave characterization of cylindrical and curved panels using a finite element method. Journal of the Acoustical Society of America, 2009, 125, 154-163.	0.5	86
69	Joint Uncertainty Propagation in Linear Structural Dynamics Using Stochastic Reduced Basis Methods. AIAA Journal, 2009, 47, 961-969.	1.5	17
70	Locating damage in waveguides from the phase of point frequency response measurements. Mechanical Systems and Signal Processing, 2009, 23, 405-414.	4.4	4
71	Acoustic response variability in automotive vehicles. Journal of Sound and Vibration, 2009, 321, 286-304.	2.1	31
72	Free and forced vibrations of a tyre using a wave/finite element approach. Journal of Sound and Vibration, 2009, 323, 737-756.	2.1	97

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73	Component mode synthesis as a framework for uncertainty analysis. Journal of Sound and Vibration, 2009, 324, 161-178.	2.1	66
74	Numerical issues concerning the wave and finite element method for free and forced vibrations of waveguides. Journal of Sound and Vibration, 2009, 327, 92-108.	2.1	151
75	A Model of Force Generation by Locust Skeletal Muscle in Response to Individual Stimuli. , 2009, , .		1
76	Modelling wave propagation in two-dimensional structures using finite element analysis. Journal of Sound and Vibration, 2008, 318, 884-902.	2.1	291
77	Comparison of convergence characteristics of adaptive IIR and FIR filters for active noise control in a duct. Applied Acoustics, 2007, 68, 729-738.	1.7	12
78	Wave propagation, reflection and transmission in non-uniform one-dimensional waveguides. Journal of Sound and Vibration, 2007, 304, 31-49.	2.1	64
79	Robust estimation of coupling loss factors from finite element analysis. Journal of Sound and Vibration, 2007, 303, 814-831.	2.1	17
80	Wave propagation, reflection and transmission in curved beams. Journal of Sound and Vibration, 2007, 306, 636-656.	2.1	74
81	Approaches to estimating the reflection and transmission coefficients of discontinuities in waveguides from measured data. Journal of Sound and Vibration, 2007, 307, 280-294.	2.1	10
82	Arbitrary active constrained layer damping treatments on beams: Finite element modelling and experimental validation. Computers and Structures, 2006, 84, 1384-1401.	2.4	42
83	A mode-based approach for the mid-frequency vibration analysis of coupled long- and short-wavelength structures. Journal of Sound and Vibration, 2006, 289, 148-170.	2.1	39
84	Finite element analysis of the vibrations of waveguides and periodic structures. Journal of Sound and Vibration, 2006, 294, 205-220.	2.1	254
85	Statistical energy analysis: coupling loss factors, indirect coupling and system modes. Journal of Sound and Vibration, 2005, 279, 141-170.	2.1	65
86	Adaptive active control of flexural waves in a beam in the presence of a nearfield. Journal of Sound and Vibration, 2005, 285, 149-171.	2.1	26
87	Wave component analysis of energy flow in complex structures – Part I: a deterministic model. Journal of Sound and Vibration, 2005, 285, 209-227.	2.1	22
88	A phenomenological model of active constrained layers. Journal of Sound and Vibration, 2005, 285, 281-302.	2.1	1
89	Suppression of bending waves in a beam using a tuned vibration absorber. Journal of Sound and Vibration, 2005, 288, 1157-1175.	2.1	33
90	Real-time control of a shape memory alloy adaptive tuned vibration absorber. Smart Materials and Structures, 2005, 14, 1184-1195.	1.8	56

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91	Finite element prediction of wave motion in structural waveguides. Journal of the Acoustical Society of America, 2005, 117, 2835-2843.	0.5	347
92	A hybrid mode/Fourier-transform approach for estimating the vibrations of beam-stiffened plate systems. Journal of Sound and Vibration, 2004, 274, 547-565.	2.1	18
93	Vibrational response prediction of a pneumatic tyre using an orthotropic two-plate wave model. Journal of Sound and Vibration, 2003, 264, 929-950.	2.1	26
94	Statistical energy analysis, energy distribution models and system modes. Journal of Sound and Vibration, 2003, 264, 391-409.	2.1	95
95	A power mode approach to estimating vibrational power transmitted by multiple sources. Journal of Sound and Vibration, 2003, 265, 387-399.	2.1	19
96	Low-frequency measurements and predictions of the structural-acoustic properties of the INCE standard T-beam structure. Noise Control Engineering Journal, 2002, 50, 90.	0.2	6
97	FEEDFORWARD ADAPTIVE CONTROL OF FLEXURAL VIBRATION IN A BEAM USING WAVE AMPLITUDES. Journal of Sound and Vibration, 2002, 254, 117-141.	2.1	21
98	Adaptive-passive control of vibration transmission in beams using electro/magnetorheological fluid filled inserts. IEEE Transactions on Control Systems Technology, 2001, 9, 209-220.	3.2	15
99	WAVE PROPAGATION, REFLECTION AND TRANSMISSION IN TUNABLE FLUID-FILLED BEAMS. Journal of Sound and Vibration, 2001, 241, 735-754.	2.1	31
100	A LOCAL MODAL/PERTURBATIONAL METHOD FOR ESTIMATING FREQUENCY RESPONSE STATISTICS OF BUILT-UP STRUCTURES WITH UNCERTAIN PROPERTIES. Journal of Sound and Vibration, 2001, 242, 793-811.	2.1	53
101	HYBRID WAVE/MODE ACTIVE VIBRATION CONTROL. Journal of Sound and Vibration, 2001, 247, 765-784.	2.1	33
102	Wave transmission through structural inserts. Journal of the Acoustical Society of America, 2001, 109, 1417-1421.	0.5	13
103	TIME DOMAIN ESTIMATION OF RESPONSE AND INTENSITY IN BEAMS USING WAVE DECOMPOSITION AND RECONSTRUCTION. Journal of Sound and Vibration, 2000, 230, 561-589.	2.1	29
104	ENERGY FLOW MODELS FROM FINITE ELEMENT ANALYSIS. Journal of Sound and Vibration, 2000, 233, 369-389.	2.1	129
105	THE VIBRATION OF PLATES ON TWO-DIMENSIONALLY PERIODIC POINT SUPPORTS. Journal of Sound and Vibration, 1996, 192, 629-643.	2.1	30
106	STATISTICAL ENERGY ANALYSIS OF TWO EDGE-COUPLED RECTANGULAR PLATES: ENSEMBLE AVERAGES. Journal of Sound and Vibration, 1996, 193, 793-822.	2.1	36
107	Structural intensity in beams—waves, transducer systems and the conditioning problem. Journal of Sound and Vibration, 1995, 185, 279-298.	2.1	25
108	On The Statistical Energy Analysis Hypothesis Of Coupling Power Proportionality And Some Implications Of Its Failure. Journal of Sound and Vibration, 1994, 178, 95-112.	2.1	37

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109	The Statistical Energy Analysis of Two Continuous One-Dimensional Subsystems. Journal of Sound and Vibration, 1993, 166, 429-461.	2.1	43
110	Power flow between two coupled beams. Journal of Sound and Vibration, 1992, 159, 305-325.	2.1	17
111	Power flow between two continuous one-dimensional subsystems: A wave solution. Journal of Sound and Vibration, 1992, 154, 289-319.	2.1	38
112	The statistics of power flow between two continuous one-dimensional subsystems. Journal of Sound and Vibration, 1992, 154, 321-341.	2.1	14
113	Active control of flexural vibrations. Journal of Sound and Vibration, 1987, 114, 253-270.	2.1	97
114	Wave reflection and transmission in beams. Journal of Sound and Vibration, 1984, 97, 237-246.	2.1	215
115	Sound radiation from fluid loaded orthogonally stiffened plates. Journal of Sound and Vibration, 1981, 79, 439-452.	2.1	83
116	Periodically stiffened fluid-loaded plates, II: Response to line and point forces. Journal of Sound and Vibration, 1980, 73, 487-504.	2.1	96
117	Sound radiation from a plate reinforced by two sets of parallel stiffeners. Journal of Sound and Vibration, 1980, 71, 435-441.	2.1	82
118	Periodically stiffened fluid-loaded plates, I: Response to convected harmonic pressure and free wave propagation. Journal of Sound and Vibration, 1980, 73, 473-486.	2.1	136
119	Wave propagation and response statistics of short fibre composites from experimental estimation of material properties. , 0, , .		Ο