J Gregory Mcdaniel

List of Publications by Year
in descending order

46	546	759233 12	677142 22
papers	citations	h-index	g-index

48	48	48	389
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Frog embryos use multiple levels of temporal pattern in risk assessment for vibration-cued escape hatching. Animal Cognition, 2022, 25, 1527-1544.	1.8	5
2	Acoustic radiation of MEMS and NEMS resonators in fluids. Journal of Applied Physics, 2021, 129, .	2.5	3
3	Escape-hatching decisions show adaptive ontogenetic changes in how embryos manage ambiguity in predation risk cues. Behavioral Ecology and Sociobiology, 2021, 75, 1.	1.4	6
4	Metallic Foam Metamaterials for Vibration Damping and Isolation. STEAM-H: Science, Technology, Engineering, Agriculture, Mathematics & Health, 2021, , 123-137.	0.0	0
5	Measurement and analysis of sound absorption by a composite foam. Applied Acoustics, 2020, 160, 107138.	3.3	19
6	Estimation of acoustic absorption in porous materials based on visco-thermal boundary layers modeled as boundary conditions. Journal of the Acoustical Society of America, 2020, 148, 1624-1635.	1.1	2
7	Sound absorption by metallic foam after triaxial hydrostatic compression. Journal of the Acoustical Society of America, 2020, 147, 3594-3604.	1.1	4
8	An Inverse Method to Predict NEMS Beam Properties From Natural Frequencies. Journal of Applied Mechanics, Transactions ASME, 2020, 87, .	2.2	6
9	Approximating Ocean Acoustic Fields with Finite Basis Function Series for Autonomous Vehicle Applications. Journal of Theoretical and Computational Acoustics, 2020, 28, 1950002.	1.1	0
10	A novel binomial expansion method for evaluating a Neumann series for the response of a perturbed system. Journal of Sound and Vibration, 2020, 473, 115231.	3.9	0
11	Analysis of thermal and viscous boundary layers in acoustic absorption by metallic foam. Journal of the Acoustical Society of America, 2019, 146, 649-655.	1.1	11
12	Convergence estimates for a series approximation of dynamic response of a perturbed system. Journal of Sound and Vibration, 2019, 459, 114855.	3.9	1
13	Ontogeny of escape-hatching decisions: vibrational cue use changes as predicted from costs of sampling and false alarms. Behavioral Ecology and Sociobiology, 2019, 73, 1.	1.4	13
14	Improving Model Parameters in Vibrating Systems Using Neumann Series. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, .	1.6	2
15	Identification and application of dynamic uncoupling between modifications to vibrating systems. International Journal for Numerical Methods in Engineering, 2017, 109, 533-554.	2.8	1
16	Optimal discovery of ambient acoustic noise field. , 2017, , .		1
17	Digital design of cellular solids for noise and vibration mitigation. Proceedings of Meetings on Acoustics, 2017, , .	0.3	1
18	Fast Inversion of Air-Coupled Spectral Analysis of Surface Wave (SASW) Using in situ Particle Displacement. ISPRS International Journal of Geo-Information, 2015, 4, 2619-2637.	2.9	2

#	Article	IF	Citations
19	Pavement macrotexture measurement using tire/road noise. Journal of Civil Structural Health Monitoring, 2015, 5, 253-261.	3.9	5
20	Estimation of Pavement Macrotexture by Principal Component Analysis of Acoustic Measurements. Journal of Transportation Engineering, 2014, 140, .	0.9	17
21	Fast frequency sweeps with many forcing vectors through adaptive interpolatory model order reduction. International Journal for Numerical Methods in Engineering, 2014, 100, 442-457.	2.8	3
22	A Mobile Acoustic Subsurface Sensing (MASS) System for Rapid Roadway Assessment. Sensors, 2013, 13, 5881-5896.	3.8	13
23	Pavement Macrotexture Monitoring through Sound Generated by a Tire-Pavement Interaction. Journal of Engineering Mechanics - ASCE, 2013, 139, 264-271.	2.9	18
24	Analysis and optimization of constrained layer damping treatments using a semi-analytical finite element method. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
25	Far-field approximation for a point-excited anisotropic plate. Journal of the Acoustical Society of America, 2012, 131, 4535-4542.	1.1	6
26	Statistical analysis of acoustic measurements for assessing pavement surface condition. , 2012, , .		6
27	Wave based analysis of the Greenâ€™s function for a layered cylindrical shell. Journal of the Acoustical Society of America, 2012, 132, 173-179.	1.1	2
28	Directionality of flexural intensity in orthotropic plates. Journal of the Acoustical Society of America, 2011, 129, 701-706.	1.1	8
29	A fast inversion analysis algorithm for the spectral analysis of surface wave (SASW) method. Proceedings of SPIE, 2011, , .	0.8	3
30	Is it safe? Red-eyed treefrog embryos assessing predation risk use two features of rain vibrations to avoid false alarms. Animal Behaviour, 2010, 79, 255-260.	1.9	36
31	Vibrational Signaling in the Agonistic Interactions of Red-Eyed Treefrogs. Current Biology, 2010, 20, 1012-1017.	3.9	84
32	Frequency information in the vibration-cued escape hatching of red-eyed treefrogs. Journal of Experimental Biology, 2009, 212, 566-575.	1.7	35
33	Two Error Bounds for Dynamic Condensation Methods. AIAA Journal, 2008, 46, 166-176.	2.6	4
34	Flexible information sampling in vibrational assessment of predation risk by red-eyed treefrog embryos. Journal of Experimental Biology, 2007, 210, 614-619.	1.7	45
35	Characterization of an experimental wavenumber fitting method for loss factor estimation using a viscoelastically damped structure. Journal of Sound and Vibration, 2006, 291, 1170-1185.	3.9	2
36	Temporal pattern cues in vibrational risk assessment by embryos of the red-eyed treefrog, Agalychnis callidryas. Journal of Experimental Biology, 2006, 209, 1376-1384.	1.7	50

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37	Development, Surface Exposure, and Embryo Behavior Affect Oxygen Levels in Eggs of the Redâ€Eyed Treefrog, Agalychnis callidryas. Physiological and Biochemical Zoology, 2005, 78, 956-966.	1.5	29
38	Efficient High-Order Frequency Interpolation of Structural Dynamic Response. AIAA Journal, 2003, 41, 2208-2215.	2.6	3
39	Estimating Natural Frequencies and Mode Shapes from Forced Response Calculations. AIAA Journal, 2002, 40, 758-764.	2.6	2
40	Inviscid dynamics of a wet foam drop with monodisperse bubble size distribution. Physics of Fluids, 2002, 14, 1886-1894.	4.0	11
41	Interpretation and identification of minimum phase reflection coefficients. Journal of the Acoustical Society of America, 2001, 110, 3003-3010.	1.1	5
42	Estimation of structural wave numbers from spatially sparse response measurements. Journal of the Acoustical Society of America, 2000, 108, 1674-1682.	1.1	49
43	Measurement of aqueous foam rheology by acoustic levitation. Physical Review E, 2000, 61, R2204-R2207.	2.1	19
44	Applications of the causality condition to one-dimensional acoustic reflection problems. Journal of the Acoustical Society of America, 1999, 105, 2710-2716.	1.1	8
45	Power flow to a cylindrical shell with an attached structure. Journal of the Acoustical Society of America, 1998, 103, 3386-3392.	1.1	2
46	Effect of Number of Measurement Locations in the Implementation of Iterative Wavenumber Fitting for Viscoelastically Damped Structures. , 0, , .		0