Andrew Dick

List of Publications by Year
in descending order

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43	482	840728 11	677123 22
papers	citations	h-index	g-index

43	43	43	370
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Alternating Frequencyâ€“Time Finite Element Method: High-Fidelity Modeling of Nonlinear Wave Propagation in One-Dimensional Waveguides. Journal of Computational and Nonlinear Dynamics, 2016, 11, .	1.2	1
2	Alternating wavelet-time finite element method: Modeling and analysis of nonlinear wave propagation in one and two-dimensional waveguides. Journal of Sound and Vibration, 2016, 367, 185-202.	3.9	5
3	Numerical Analysis of Transient Wave Propagation in Nonlinear One-Dimensional Waveguides by Using the Spectral Finite Element Method. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	1.2	1
4	Analytical Investigation of Vibration Attenuation With a Nonlinear Tuned Mass Damper. , 2015, , .		0
5	Asymmetric Solutions of SDOF System with Wire Rope Vibration Isolator Subjected to Harmonic Excitation. International Journal of Structural Stability and Dynamics, 2015, 15, 1450089.	2.4	8
6	Steady-state response attenuation of a linear oscillatorâ€“nonlinear absorber system by using an adjustable-length pendulum in series: Numerical and experimental results. Journal of Sound and Vibration, 2015, 344, 332-344.	3.9	22
7	Practical high-fidelity frequency-domain force and location identification. Computers and Structures, 2015, 158, 30-41.	4.4	12
8	Numerical Investigation of Lateral and Axial Wave Propagation in Drill-Strings for Stability Monitoring. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.6	7
9	Investigation of Dual-Frequency Excitation and the Influence of Excitation Phase on a Constrained Cantilevered Beam System. , 2014, , .		0
10	A parallelized multi-degrees-of-freedom cell mapping method. Nonlinear Dynamics, 2014, 77, 467-479.	5.2	27
11	Numerical investigation of coexisting high and low amplitude responses and safe basin erosion for a coupled linear oscillator and nonlinear absorber system. Journal of Sound and Vibration, 2014, 333, 3490-3504.	3.9	25
12	Family of smart tuned mass dampers with variable frequency under harmonic excitations and ground motions: closed-form evaluation. Smart Structures and Systems, 2014, 13, 319-341.	1.9	42
13	Attenuation of a linear oscillator using a nonlinear and a semi-active tuned mass damper in series. Journal of Sound and Vibration, 2013, 332, 154-166.	3.9	50
14	Hardening DÃ¼ffing oscillator attenuation using a nonlinear TMD, a semi-active TMD and multiple TMD. Journal of Sound and Vibration, 2013, 332, 674-686.	3.9	42
15	Parametric Resonance Based Piezoelectric Micro-Scale Resonators: Modeling and Theoretical Analysis. Journal of Computational and Nonlinear Dynamics, 2013, 8, .	1.2	4
16	Characterizing Effective d31 Values for PZT from the Nonlinear Oscillations of Clamped-Clamped Micro- Resonators. Strojniski Vestnik/Journal of Mechanical Engineering, 2013, 59, 50-55.	1.1	10
17	Spectral Domain Force Identification of Impulsive Loading in Beam Structures. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 157-165.	0.5	2
18	Response Measurement Accuracy for Off-Resonance Excitation in Atomic Force Microscopy. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	0

#	Article	IF	Citations
19	High Fidelity Methods for Modeling Nonlinear Wave Propagation in One-Dimensional Waveguides. , 2012, , .		5
20	Analysis of the occurrence of stick-slip in AFM-based nano-pushing. Nonlinear Dynamics, 2012, 68, 177-186.	5.2	1
21	Calculating scaling function coefficients from system response data for new discrete wavelet families. Mechanical Systems and Signal Processing, 2012, 27, 362-369.	8.0	4
22	Influence of Excitation Conditions in Dual-Frequency Tapping-Mode Atomic Force Microscopy. , 2012, , .		0
23	Bifurcation Characteristics of an Impacted Cantilevered Beam for Off-Resonance Excitation. , 2011, , .		0
24	Influence of Local Material Properties on the Nonlinear Dynamic Behavior of an Atomic Force Microscope Probe. Journal of Computational and Nonlinear Dynamics, 2011, 6, .	1.2	0
25	Influence of Tip-Sample Energy Dissipation on Interaction Force Regime Characterization with Dual-Frequency Excitation. Journal of Computational and Theoretical Nanoscience, 2011, 8, 1744-1750.	0.4	3
26	Parametric Resonance Based Piezoelectric Micro-Scale Resonators: Modeling and Theoretical Analysis. , 2011, , .		0
27	Utilizing Off-Resonance and Dual-Frequency Excitation to Distinguish Attractive and Repulsive Surface Forces in Atomic Force Microscopy. Journal of Computational and Nonlinear Dynamics, 2011, 6, .	1.2	9
28	Measuring Effective Modulus With Bifurcation Based Atomic Force Microscope Method. , 2011, , .		0
29	Response Measurement Accuracy for Off-Resonance Excitation in Atomic Force Microscopy. , 2010, , .		1
30	Localized Material Properties Through Nonlinear Dynamics Based Atomic Force Microscopy. , 2010, , .		0
31	Localization in Microresonator Arrays: Influence of Natural Frequency Tuning. Journal of Computational and Nonlinear Dynamics, 2010, 5, .	1.2	27
32	Tip trajectories of a smart micro-cantilever beam: analysis and design. Smart Materials and Structures, 2009, 18, 115012.	3.5	6
33	Utilizing nonlinear phenomena to locate grazing inÂtheÂconstrained motion of a cantilever beam. Nonlinear Dynamics, 2009, 57, 335-349.	5.2	43
34	Period-Doubling Bifurcations in Atomic Force Microscopy. , 2009, , .		0
35	Intrinsic localized modes in microresonator arrays and their relationship to nonlinear vibration modes. Nonlinear Dynamics, 2008, 54, 13-29.	5.2	66
36	Control of an Impacted Cantilever toward Application of an Atomic Force Microscope in Tapping Mode. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2008, 74, 1409-1415.	0.2	0

#	Article	IF	Citations
37	Pre and post machining and release residual stresses in microelectromechanical systems (MEMS). Proceedings of SPIE, 2008, , .	0.8	0
38	Near-Grazing Based Intermittent Contact Mode Atomic Force Microscopy. , 2008, , .		1
39	Internal Resonance and Localization in Micro-Resonator Arrays. , 2007, , 1711.		0
40	Control of an Impacted Cantilever to Maintain a Constant Magnitude for a Specific Frequency Component of the Response. , 2007, , 639.		0
41	Nonlinear vibration modes in micro-resonator arrays. , 2006, , .		5
42	Parametric identification of piezoelectric microscale resonators. Journal of Micromechanics and Microengineering, 2006, 16, 1593-1601.	2.6	53
43	Static and Dynamic Techniques for Residual Stress Measurements in Microelectromechanical Systems. , 2006, , .		0