

Neil Sims

List of Publications by Year in descending order

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27
papers

2,251
citations

331670

21
h-index

526287

27
g-index

27
all docs

27
docs citations

27
times ranked

1553
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy harvesting from the nonlinear oscillations of magnetic levitation. Journal of Sound and Vibration, 2009, 319, 515-530.	3.9	832
2	Analytical prediction of chatter stability for variable pitch and variable helix milling tools. Journal of Sound and Vibration, 2008, 317, 664-686.	3.9	169
3	Vibration absorbers for chatter suppression: A new analytical tuning methodology. Journal of Sound and Vibration, 2007, 301, 592-607.	3.9	166
4	The benefits of Duffing-type nonlinearities and electrical optimisation of a mono-stable energy harvester under white Gaussian excitations. Journal of Sound and Vibration, 2012, 331, 4504-4517.	3.9	113
5	Energy harvesting from human motion and bridge vibrations: An evaluation of current nonlinear energy harvesting solutions. Journal of Intelligent Material Systems and Structures, 2013, 24, 1494-1505.	2.5	104
6	Optimisation of variable helix tool geometry for regenerative chatter mitigation. International Journal of Machine Tools and Manufacture, 2011, 51, 133-141.	13.4	82
7	THE ELECTORRHEOLOGICAL LONG-STROKE DAMPER: A NEW MODELLING TECHNIQUE WITH EXPERIMENTAL VALIDATION. Journal of Sound and Vibration, 2000, 229, 207-227.	3.9	79
8	Magnetorheological landing gear: 1. A design methodology. Smart Materials and Structures, 2007, 16, 2429-2440.	3.5	79
9	Controllable viscous damping: an experimental study of an electrorheological long-stroke damper under proportional feedback control. Smart Materials and Structures, 1999, 8, 601-615.	3.5	77
10	Milling workpiece chatter avoidance using piezoelectric active damping: a feasibility study. Smart Materials and Structures, 2005, 14, N65-N70.	3.5	72
11	On the performance and resonant frequency of electromagnetic induction energy harvesters. Journal of Sound and Vibration, 2010, 329, 1348-1361.	3.9	55
12	Magnetorheological landing gear: 2. Validation using experimental data. Smart Materials and Structures, 2007, 16, 2441-2452.	3.5	53
13	Probabilistic uncertainty analysis of an FRF of a structure using a Gaussian process emulator. Mechanical Systems and Signal Processing, 2011, 25, 2962-2975.	8.0	47
14	Temperature Sensitive Controller Performance of MR Dampers. Journal of Intelligent Material Systems and Structures, 2009, 20, 297-309.	2.5	39
15	Fuzzy stability analysis of regenerative chatter in milling. Journal of Sound and Vibration, 2010, 329, 1025-1041.	3.9	39
16	On the identification and modelling of friction in a randomly excited energy harvester. Journal of Sound and Vibration, 2013, 332, 4696-4708.	3.9	38
17	Vibration Control Strategies for Proof-mass Actuators. JVC/Journal of Vibration and Control, 2007, 13, 1785-1806.	2.6	34
18	The role of tool geometry in process damped milling. International Journal of Advanced Manufacturing Technology, 2010, 50, 883-895.	3.0	30

#	ARTICLE	IF	CITATIONS
19	Piezoelectric sensors and actuators for milling tool stability lobes. Journal of Sound and Vibration, 2005, 281, 743-762.	3.9	28
20	Chatter, process damping, and chip segmentation in turning: A signal processing approach. Journal of Sound and Vibration, 2010, 329, 4922-4935.	3.9	24
21	On the orthogonalised reverse path method for nonlinear system identification. Journal of Sound and Vibration, 2012, 331, 4488-4503.	3.9	23
22	The effect of Duffing-type non-linearities and Coulomb damping on the response of an energy harvester to random excitations. Journal of Intelligent Material Systems and Structures, 2012, 23, 2039-2054.	2.5	19
23	Modeling Static and Dynamic Cutting Forces and Vibrations for Inserted Ceramic Milling Tools. Procedia CIRP, 2013, 8, 564-569.	1.9	15
24	Analysis of Non-linear Machine Tool Dynamic Behavior. Procedia Engineering, 2013, 63, 761-770.	1.2	13
25	Developing a hardware in-the-loop simulator for a backpack energy harvester. Journal of Intelligent Material Systems and Structures, 2012, 23, 827-835.	2.5	9
26	A finite element method for active vibration control of uncertain structures. Mechanical Systems and Signal Processing, 2012, 32, 79-93.	8.0	9
27	Modelling of segmentation-driven vibration in machining. International Journal of Advanced Manufacturing Technology, 2013, 66, 207-219.	3.0	3