

Simon A Neild

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9155087/simon-a-neild-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

220
papers

3,999
citations

35
h-index

54
g-index

239
ext. papers

4,768
ext. citations

2.7
avg, IF

6.01
L-index

#	Paper	IF	Citations
220	Hybrid Testing of a Cantilever Beam with Two Controlled Degrees of Freedom. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2023 , 115-117	0.3	
219	Control-Free Dynamic Substructuring of a Three-Storey Building. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2023 , 59-61	0.3	
218	Capturing nonlinear time-dependent aircraft dynamics using a wind tunnel manoeuvre rig. <i>Aerospace Science and Technology</i> , 2022 , 121, 107325	4.9	
217	Analysing dynamic deep stall recovery using a nonlinear frequency approach. <i>Nonlinear Dynamics</i> , 2022 , 108, 1179-1196	5	1
216	Identifying limits of linear control design validity in nonlinear systems: a continuation-based approach. <i>Nonlinear Dynamics</i> , 2021 , 104, 901-921	5	1
215	Robustness of nonlinear parameter identification in the presence of process noise using control-based continuation. <i>Nonlinear Dynamics</i> , 2021 , 104, 885-900	5	2
214	Effect of Actuator Saturation on Pilot-Induced Oscillation: A Nonlinear Bifurcation Analysis. <i>Journal of Guidance, Control, and Dynamics</i> , 2021 , 44, 1018-1026	2.1	5
213	Detecting internal resonances during model reduction. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477, 20210215	2.4	2
212	Frequency-Domain Bifurcation Analysis of a Nonlinear Flight Dynamics Model. <i>Journal of Guidance, Control, and Dynamics</i> , 2021 , 44, 138-150	2.1	5
211	Improving the track friendliness of a four-axle railway vehicle using an inertance-integrated lateral primary suspension. <i>Vehicle System Dynamics</i> , 2021 , 59, 115-134	2.8	4
210	Understanding targeted energy transfer from a symmetry breaking perspective. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477, 20210045	2.4	1
209	Using an inerter to enhance an active-passive-combined vehicle suspension system. <i>International Journal of Mechanical Sciences</i> , 2021 , 204, 106535	5.5	2
208	Transient Dynamics Assessment of a Gain-Scheduled Aircraft Controller Using Nonlinear Frequency Approach. <i>Journal of Guidance, Control, and Dynamics</i> , 2021 , 44, 1692-1699	2.1	
207	Multiharmonic Resonance Control Testing of an Internally Resonant Structure. <i>Vibration</i> , 2020 , 3, 217-234		
206	Accounting for Quasi-Static Coupling in Nonlinear Dynamic Reduced-Order Models. <i>Journal of Computational and Nonlinear Dynamics</i> , 2020 , 15,	1.4	6
205	Inertance-Integrated Primary Suspension Optimisation on an Industrial Railway Vehicle Model. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 570-579	0.4	
204	Risk assessment of cables vibration-suppressed with tuned-inerter dampers. <i>Engineering Structures</i> , 2020 , 222, 111127	4.7	3

203	Optimal design of a pair of vibration suppression devices for a multi-storey building. <i>Structural Control and Health Monitoring</i> , 2020 , 27, e2498	4.5	3
202	Dynamic analysis and performance evaluation of nonlinear inerter-based vibration isolators. <i>Nonlinear Dynamics</i> , 2020 , 99, 1823-1839	5	42
201	Industrially Inspired Gust Loads Analysis of Various-Aspect-Ratio Wings Featuring Geometric Nonlinearity. <i>Journal of Aircraft</i> , 2020 , 57, 13-28	1.6	1
200	Vibration suppression for monopile and spar-buoy offshore wind turbines using the structure-immittance approach. <i>Wind Energy</i> , 2020 , 23, 1966-1985	3.4	8
199	Indirect reduced-order modelling: using nonlinear manifolds to conserve kinetic energy. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20200589 ^{2,4}	2.4	7
198	Identifying phase-varying periodic behaviour in conservative nonlinear systems. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20200028	2.4	2
197	Real-Time Hybrid Testing of Strut-Braced Wing Under Aerodynamic Loading Using an Electrodynamic Actuator. <i>Experimental Techniques</i> , 2020 , 44, 821-835	1.4	2
196	Using an inerter-based suspension to improve both passenger comfort and track wear in railway vehicles. <i>Vehicle System Dynamics</i> , 2020 , 58, 472-493	2.8	29
195	Vehicle vibration suppression using an inerter-based mechatronic device. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2020 , 234, 2592-2601	1.4	13
194	Minimally Constrained Flight Simulation in Wind Tunnel. <i>Journal of Aircraft</i> , 2019 , 56, 1353-1366	1.6	4
193	Optimal fluid passageway design methodology for hydraulic engine mounts considering both low and high frequency performances. <i>JVC/Journal of Vibration and Control</i> , 2019 , 25, 2749-2757	2	4
192	Passive Gust Loads Alleviation in a Truss-Braced Wing Using an Inerter-Based Device. <i>Journal of Aircraft</i> , 2019 , 56, 2260-2271	1.6	3
191	Sizing High-Aspect-Ratio Wings with a Geometrically Nonlinear Beam Model. <i>Journal of Aircraft</i> , 2019 , 56, 1455-1470	1.6	7
190	Using frequency detuning to compare analytical approximations for forced responses. <i>Nonlinear Dynamics</i> , 2019 , 98, 2795-2809	5	3
189	The effect of nonlinear cross-coupling on reduced-order modelling. <i>International Journal of Non-Linear Mechanics</i> , 2019 , 116, 7-17	2.8	7
188	Experimentally measuring an isolated branch of Nonlinear normal modes. <i>Journal of Sound and Vibration</i> , 2019 , 457, 213-226	3.9	4
187	Investigation of gear walk suppression while maintaining braking performance in a main landing gear. <i>Aerospace Science and Technology</i> , 2019 , 91, 122-135	4.9	6
186	Identification of beneficial mass-included inerter-based vibration suppression configurations. <i>Journal of the Franklin Institute</i> , 2019 , 356, 7836-7854	4	3

185	Performance-based seismic design of tuned inerter dampers. <i>Structural Control and Health Monitoring</i> , 2019 , 26, e2346	4.5	31
184	Reduced-Order Modelling for Investigating Nonlinear FEM Systems. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 335-350	0.3	
183	Frequency response expansion strategy for nonlinear structures. <i>Mechanical Systems and Signal Processing</i> , 2019 , 116, 505-529	7.8	9
182	Personalised profiling to identify clinically relevant changes in tremor due to multiple sclerosis. <i>BMC Medical Informatics and Decision Making</i> , 2019 , 19, 162	3.6	3
181	A methodology for identifying optimum vibration absorbers with a reaction mass. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20190232	2.4	1
180	Numerical continuation in nonlinear experiments using local Gaussian process regression. <i>Nonlinear Dynamics</i> , 2019 , 98, 2811-2826	5	15
179	Optimal design of inerter-integrated vibration absorbers for seismic retrofitting of a high-rise building in Colombia. <i>Journal of Physics: Conference Series</i> , 2019 , 1264, 012031	0.3	3
178	Investigating Modal Contributions Using a Galerkin Model. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 199-210	0.3	
177	Numerically Assessing the Relative Significance of Nonlinear Normal Modes to Forced Responses. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 317-326	0.3	
176	Application of Control-Based Continuation to a Nonlinear System with Harmonically Coupled Modes. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 315-316	0.3	1
175	Conditions for the existence of isolated backbone curves. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20190374	2.4	5
174	Application of control-based continuation to a nonlinear structure with harmonically coupled modes. <i>Mechanical Systems and Signal Processing</i> , 2019 , 120, 449-464	7.8	23
173	Experimental Investigation of Aerodynamic Hysteresis Using a Five-Degree-of-Freedom Wind-Tunnel Maneuver Rig. <i>Journal of Aircraft</i> , 2019 , 56, 1029-1039	1.6	5
172	Efficient aeroelastic beam modelling and the selection of a structural shape basis. <i>International Journal of Non-Linear Mechanics</i> , 2019 , 112, 73-84	2.8	3
171	Robust Control of a Cable From a Hyperbolic Partial Differential Equation Model. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1343-1351	4.8	5
170	Flight Performance and Stability Analysis of Impaired Aircraft Using Constrained Bifurcation and Continuation Method 2018 ,		2
169	Veering and nonlinear interactions of a clamped beam in bending and torsion. <i>Journal of Sound and Vibration</i> , 2018 , 416, 1-16	3.9	9
168	Passive Gust Load Alleviation In a Truss-Braced Wing Using an Inerter-Based Device 2018 ,		1

167	On the Effect of Including Geometric Nonlinearity in the Sizing of a Wing 2018 ,		5
166	Model updating strategy for structures with localised nonlinearities using frequency response measurements. <i>Mechanical Systems and Signal Processing</i> , 2018 , 100, 940-961	7.8	28
165	Numerical Continuation of Limit Cycle Oscillations and Bifurcations in High-Aspect-Ratio Wings. <i>Aerospace</i> , 2018 , 5, 78	2.5	8
164	On the geometrically exact low-order modelling of a flexible beam: formulation and numerical tests. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20180423	2.4	5
163	Force appropriation of nonlinear structures. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20170880	2.4	7
162	Comparing the direct normal form and multiple scales methods through frequency detuning. <i>Nonlinear Dynamics</i> , 2018 , 94, 2919-2935	5	9
161	Slender-Wing Beam Reduction Method for Gradient-Based Aeroelastic Design Optimization. <i>AIAA Journal</i> , 2018 , 56, 4529-4545	2.1	2
160	Identification of systems containing nonlinear stiffnesses using backbone curves. <i>Mechanical Systems and Signal Processing</i> , 2017 , 84, 116-135	7.8	22
159	Optimal configurations for a linear vibration suppression device in a multi-storey building. <i>Structural Control and Health Monitoring</i> , 2017 , 24, e1887	4.5	69
158	Finite element model calibration of a nonlinear perforated plate. <i>Journal of Sound and Vibration</i> , 2017 , 392, 280-294	3.9	16
157	Identifying the significance of nonlinear normal modes. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017 , 473, 20160789	2.4	22
156	Experimental Tracking of Limit-Point Bifurcations and Backbone Curves Using Control-Based Continuation. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017 , 27, 1730002	2	22
155	The Significance of Nonlinear Normal Modes for Forced Responses. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 135-142	0.3	1
154	Passive vibration control: a structure-immittance approach. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017 , 473, 20170011	2.4	14
153	Nonlinear Phase Separation Testing of an Experimental Wing-Engine Structure. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 115-117	0.3	1
152	Synthesis of essential-regular bicubic impedances. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 1482-1496	2	11
151	Comparison of the dynamic performance of nonlinear one and two degree-of-freedom vibration isolators with quasi-zero stiffness. <i>Nonlinear Dynamics</i> , 2017 , 88, 635-654	5	35
150	Comparing the direct normal form method with harmonic balance and the method of multiple scales. <i>Procedia Engineering</i> , 2017 , 199, 869-874		8

149	Including Inerters in Aircraft Landing Gear Shock Strut to Improve the Touch-down Performance. <i>Procedia Engineering</i> , 2017 , 199, 1689-1694		8
148	Optimization of a Main Landing Gear Locking Mechanism Using Bifurcation Analysis. <i>Journal of Aircraft</i> , 2017 , 54, 2126-2139	1.6	13
147	Using continuation analysis to identify shimmy-suppression devices for an aircraft main landing gear. <i>Journal of Sound and Vibration</i> , 2017 , 408, 234-251	3.9	19
146	Optimal Inerter-Based Shock Strut Configurations for Landing-Gear Touchdown Performance. <i>Journal of Aircraft</i> , 2017 , 54, 1901-1909	1.6	19
145	The Structure-Immittance Approach for Passive Vibration Control. <i>Procedia Engineering</i> , 2017 , 199, 1834-1839		1
144	Inerter-Based Configurations for Main-Landing-Gear Shimmy Suppression. <i>Journal of Aircraft</i> , 2017 , 54, 684-693	1.6	54
143	Assessing the effect of nonlinearities on the performance of a tuned inerter damper. <i>Structural Control and Health Monitoring</i> , 2017 , 24, e1879	4.5	72
142	An Explanation for Why Natural Frequencies Shifting in Structures with Membrane Stresses, Using Backbone Curve Models. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 9-19	0.3	1
141	Comparing Analytical Approximation Methods with Numerical Results for Nonlinear Systems. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017 , 37-49	0.3	1
140	Simplifying Transformations for Nonlinear Systems: Part II, Statistical Analysis of Harmonic Cancellation. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 321-326	0.3	1
139	Investigation into the Interaction of Nose Landing Gear and Fuselage Dynamics. <i>Journal of Aircraft</i> , 2016 , 53, 881-891	1.6	3
138	Substructurability: the effect of interface location on a real-time dynamic substructuring test. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20160433	2.4	12
137	An analytical approach for detecting isolated periodic solution branches in weakly nonlinear structures. <i>Journal of Sound and Vibration</i> , 2016 , 379, 150-165	3.9	30
136	The influence of phase-locking on internal resonance from a nonlinear normal mode perspective. <i>Journal of Sound and Vibration</i> , 2016 , 379, 135-149	3.9	9
135	Fast Bayesian identification of a class of elastic weakly nonlinear systems using backbone curves. <i>Journal of Sound and Vibration</i> , 2016 , 360, 156-170	3.9	19
134	Vibration suppression of cables using tuned inerter dampers. <i>Engineering Structures</i> , 2016 , 122, 62-71	4.7	138
133	Aeroelastic Modelling of Highly Flexible Wings 2016 ,		4
132	Wind Tunnel Manoeuvre Rig: A Multi-DOF Test Platform for Model Aircraft 2016 ,		2

131	Robust identification of backbone curves using control-based continuation. <i>Journal of Sound and Vibration</i> , 2016 , 367, 145-158	3.9	69
130	(N-1) modal interactions of a three-degree-of-freedom system with cubic elastic nonlinearities. <i>Nonlinear Dynamics</i> , 2016 , 83, 497-511	5	8
129	Impact of Controller Delays on the Nonlinear Dynamics of Remotely Piloted Aircraft. <i>Journal of Guidance, Control, and Dynamics</i> , 2016 , 39, 292-300	2.1	7
128	Nonlinear Modal Interaction Analysis for a Three Degree-of-Freedom System with Cubic Nonlinearities. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 123-131	0.3	4
127	Nonlinear System Identification Through Backbone Curves and Bayesian Inference. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 255-262	0.3	0
126	Systems with Bilinear Stiffness: Extraction of Backbone Curves and Identification. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 307-313	0.3	2
125	Simplifying Transformations for Nonlinear Systems: Part I, An Optimisation-Based Variant of Normal Form Analysis. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 315-320	0.3	1
124	Relating Backbone Curves to the Forced Responses of Nonlinear Systems. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 113-122	0.3	1
123	The Importance of Phase-Locking in Nonlinear Modal Interactions. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 121-130	0.3	1
122	Experimental Identification of a Structure with Internal Resonance. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 37-45	0.3	1
121	Dynamical Systems Methods for Evaluating Aircraft Ground Manoeuvres 2016 , 131-136		1
120	A Study of the Modal Interaction Amongst Three Nonlinear Normal Modes Using a Backbone Curve Approach. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 131-139	0.3	1
119	Passive vibration suppression using inerters for a multi-storey building structure. <i>Journal of Physics: Conference Series</i> , 2016 , 744, 012044	0.3	4
118	Optimisation of shimmy suppression device in an aircraft main landing gear. <i>Journal of Physics: Conference Series</i> , 2016 , 744, 012066	0.3	1
117	Periodic responses of a structure with 3:1 internal resonance. <i>Mechanical Systems and Signal Processing</i> , 2016 , 81, 19-34	7.8	42
116	Vibroacoustic optimization of anti-tetrachiral and auxetic hexagonal sandwich panels with gradient geometry. <i>Smart Materials and Structures</i> , 2016 , 25, 054012	3.4	32
115	Experimental and Numerical Investigation of the Nonlinear Bending-Torsion Coupling of a Clamped-Clamped Beam with Centre Masses. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 97-106	0.3	1
114	Identification of backbone curves of nonlinear systems from resonance decay responses. <i>Journal of Sound and Vibration</i> , 2015 , 348, 224-238	3.9	82

113	An electromagnetic vibration absorber with harvesting and tuning capabilities. <i>Structural Control and Health Monitoring</i> , 2015 , 22, 1359-1372	4.5	22
112	Evaluation of Aircraft Model Upset Behaviour Using Wind Tunnel Manoeuvre Rig 2015 ,		5
111	Using a damper amplification factor to increase energy dissipation in structures. <i>Engineering Structures</i> , 2015 , 84, 162-171	4.7	11
110	Out-of-unison resonance in weakly nonlinear coupled oscillators. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20140659	2.4	27
109	Nonlinear Vibration with Control. <i>Solid Mechanics and Its Applications</i> , 2015 ,	0.4	7
108	Numerical continuation and bifurcation analysis in aircraft design: an industrial perspective. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	22
107	Performance Analysis of Cables with Attached Tuned-Inerter-Dampers. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015 , 433-441	0.3	7
106	An electromagnetic inerter-based vibration suppression device. <i>Smart Materials and Structures</i> , 2015 , 24, 055015	3.4	73
105	Beams. <i>Solid Mechanics and Its Applications</i> , 2015 , 261-312	0.4	2
104	Interpreting the forced responses of a two-degree-of-freedom nonlinear oscillator using backbone curves. <i>Journal of Sound and Vibration</i> , 2015 , 349, 276-288	3.9	55
103	The use of normal forms for analysing nonlinear mechanical vibrations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	36
102	Nonlinear Dynamics of Aircraft Controller Characteristics Outside the Standard Flight Envelope. <i>Journal of Guidance, Control, and Dynamics</i> , 2015 , 38, 2301-2308	2.1	19
101	Relieving the effect of static load errors in nonlinear vibration isolation mounts through stiffness asymmetries. <i>Journal of Sound and Vibration</i> , 2015 , 339, 84-98	3.9	16
100	Dynamically dual vibration absorbers: a bond graph approach to vibration control. <i>Systems Science and Control Engineering</i> , 2015 , 3, 113-128	2	3
99	Approximate Methods for Analysing Nonlinear Vibrations. <i>Solid Mechanics and Its Applications</i> , 2015 , 145-209	0.4	1
98	Modal Analysis for Nonlinear Vibration. <i>Solid Mechanics and Its Applications</i> , 2015 , 211-259	0.4	
97	Bifurcations of backbone curves for systems of coupled nonlinear two mass oscillator. <i>Nonlinear Dynamics</i> , 2014 , 77, 311-320	5	41
96	Using an inerter-based device for structural vibration suppression. <i>Earthquake Engineering and Structural Dynamics</i> , 2014 , 43, 1129-1147	4	350

95	The bandwidth of optimized nonlinear vibration-based energy harvesters. <i>Smart Materials and Structures</i> , 2014 , 23, 055019	3.4	31
94	Optimum resistive loads for vibration-based electromagnetic energy harvesters with a stiffening nonlinearity. <i>Journal of Intelligent Material Systems and Structures</i> , 2014 , 25, 1757-1770	2.3	31
93	Pulse-Echo Harmonic Generation Measurements for Non-destructive Evaluation. <i>Journal of Nondestructive Evaluation</i> , 2014 , 33, 205-215	2.1	12
92	Supporting brace sizing in structures with added linear viscous fluid dampers: A filter design solution. <i>Earthquake Engineering and Structural Dynamics</i> , 2014 , 43, 1999-2013	4	10
91	Modelling harmonic generation measurements in solids. <i>Ultrasonics</i> , 2014 , 54, 442-50	3.5	10
90	An optimised tuned mass damper/harvester device. <i>Structural Control and Health Monitoring</i> , 2014 , 21, 1154-1169	4.5	42
89	Sensitivity of the Generic Transport Model upset dynamics to time delay 2014 ,		1
88	Inverse dynamics modelling of upper-limb tremor, with cross-correlation analysis. <i>Healthcare Technology Letters</i> , 2014 , 1, 59-63	1.9	5
87	Bifurcation Analysis of a Coupled Nose-Landing-GearBuselage System. <i>Journal of Aircraft</i> , 2014 , 51, 259-272	1.6	17
86	Vibration Dynamics of an Inclined Cable Excited Near Its Second Natural Frequency. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2014 , 24, 1430024	2	6
85	Numerical Continuation Analysis of a Dual-Sidestay Main Landing Gear Mechanism. <i>Journal of Aircraft</i> , 2014 , 51, 129-143	1.6	15
84	Relating sensor-based tremor metrics to a conventional clinical scale 2014 ,		1
83	Strategies for Coupled Vibration Suppression and Energy Harvesting. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014 , 27-33	0.3	
82	A bifurcation study to guide the design of a landing gear with a combined uplock/downlock mechanism. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20140332	2.4	6
81	Design and Performance Analysis of Inerter-Based Vibration Control Systems. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014 , 493-500	0.3	3
80	Towards a Technique for Nonlinear Modal Reduction. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014 , 121-128	0.3	1
79	A generalized frequency detuning method for multidegree-of-freedom oscillators with nonlinear stiffness. <i>Nonlinear Dynamics</i> , 2013 , 73, 649-663	5	16
78	A nonlinear spring mechanism incorporating a bistable composite plate for vibration isolation. <i>Journal of Sound and Vibration</i> , 2013 , 332, 6265-6275	3.9	89

77	A noniterative design procedure for supplemental brace-damper systems in single-degree-of-freedom systems. <i>Earthquake Engineering and Structural Dynamics</i> , 2013 , 42, 2361-2367	4	9
76	Dynamic analysis of high static low dynamic stiffness vibration isolation mounts. <i>Journal of Sound and Vibration</i> , 2013 , 332, 1437-1455	3.9	59
75	Resonant response functions for nonlinear oscillators with polynomial type nonlinearities. <i>Journal of Sound and Vibration</i> , 2013 , 332, 1777-1788	3.9	12
74	Influence of Variable Side-Stay Geometry on the Shimmy Dynamics of an Aircraft Dual-Wheel Main Landing Gear. <i>SIAM Journal on Applied Dynamical Systems</i> , 2013 , 12, 1181-1209	2.8	21
73	Power-constrained intermittent control. <i>International Journal of Control</i> , 2013 , 86, 396-409	1.5	8
72	Upset Dynamics of an Airliner Model: A Nonlinear Bifurcation Analysis. <i>Journal of Aircraft</i> , 2013 , 50, 1832-1842	3.3	33
71	Effects of Freeplay on Dynamic Stability of an Aircraft Main Landing Gear. <i>Journal of Aircraft</i> , 2013 , 50, 1908-1922	1.6	15
70	Bandwidth of a Nonlinear Harvester with Optimized Electrical Load. <i>Journal of Physics: Conference Series</i> , 2013 , 476, 012071	0.3	7
69	Experimental Investigation Into A Vibration Isolator Incorporating A Bistable Composite Plate 2013		1
68	Robust Measurement Feedback Control of an Inclined Cable. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 55-60		1
67	Bifurcation Analysis of the Generic Transport Model for Open-Loop and Closed-Loop Configurations 2013 ,		1
66	Nonlinear Modal Decomposition Using Normal Form Transformations. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 179-187	0.3	1
65	Validation of Inverse Dynamics Modelling and Correlation Analysis to Characterise Upper-Limb Tremor. <i>Biosystems and Biorobotics</i> , 2013 , 697-702	0.2	1
64	Optimum Load for Energy Harvesting with Non-linear Oscillators. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 555-560	0.3	0
63	Modelling and measurement of the nonlinear behaviour of kissing bonds in adhesive joints. <i>NDT and E International</i> , 2012 , 47, 18-25	4.1	33
62	Measuring bulk material nonlinearity using harmonic generation. <i>NDT and E International</i> , 2012 , 48, 46-53	4.1	21
61	Higher order accuracy analysis of the second-order normal form method. <i>Nonlinear Dynamics</i> , 2012 , 70, 2175-2185	5	6
60	Bifurcation Analysis of a Coupled Nose Landing Gear-Fuselage System 2012 ,		2

59	Single Source Three Dimensional Capture of Full Field Plate Vibrations. <i>Experimental Mechanics</i> , 2012 , 52, 965-974	2.6	4
58	On the assessment of passive devices for structural control via real-time dynamic substructuring. <i>Structural Control and Health Monitoring</i> , 2012 , 19, 701-722	4.5	8
57	Semi-active damping using a hybrid control approach. <i>Journal of Intelligent Material Systems and Structures</i> , 2012 , 23, 2103-2116	2.3	14
56	Towards a Technique for Nonlinear Modal Analysis 2012 ,		3
55	Approximate Methods for Analysing Nonlinear Structures 2012 , 53-109		6
54	Effects of experimental variables on the nonlinear harmonic generation technique. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 1442-51	3.2	20
53	Influence of Damping on the Vibration of an Inclined Cable Subjected to Support Excitation 2011 ,		1
52	Bifurcation analysis of a parametrically excited inclined cable close to two-to-one internal resonance. <i>Journal of Sound and Vibration</i> , 2011 , 330, 6023-6035	3.9	23
51	Rosenbrock-based algorithms and subcycling strategies for real-time nonlinear substructure testing. <i>Earthquake Engineering and Structural Dynamics</i> , 2011 , 40, 1-19	4	27
50	Applying the method of normal forms to second-order nonlinear vibration problems. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011 , 467, 1141-1163	2.4	58
49	Vibration damping in bolted friction beam-columns. <i>Journal of Sound and Vibration</i> , 2011 , 330, 1665-1679	3.9	16
48	Quasi-active suspension design using magnetorheological dampers. <i>Journal of Sound and Vibration</i> , 2011 , 330, 2201-2219	3.9	20
47	On the cross-well dynamics of a bi-stable composite plate. <i>Journal of Sound and Vibration</i> , 2011 , 330, 3424-3441	3.9	45
46	Dynamic Snap-through for Morphing of Bi-stable Composite Plates. <i>Journal of Intelligent Material Systems and Structures</i> , 2011 , 22, 103-112	2.3	60
45	A review of non-linear structural control techniques. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2011 , 225, 759-770	1.3	5
44	Control-Based Continuation of Unstable Periodic Orbits. <i>Journal of Computational and Nonlinear Dynamics</i> , 2011 , 6,	1.4	19
43	The Selection of the Linearized Natural Frequency for the Second-Order Normal Form Method 2011 ,		3
42	Low order model for the dynamics of bi-stable composite plates. <i>Journal of Intelligent Material Systems and Structures</i> , 2011 , 22, 2025-2043	2.3	24

41	Dynamic excitation of cables by deck and/or tower motion. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 2010 , 163, 101-112	0.5	1
40	EXPERIMENTAL AND THEORETICAL CHARACTERIZATION OF KISSING BONDS IN ADHESIVE JOINT USING NON-LINEAR ULTRASONIC MEASUREMENT 2010 ,		5
39	Generalisation and optimisation of semi-active, on/off switching controllers for single degree-of-freedom systems. <i>Journal of Sound and Vibration</i> , 2010 , 329, 2450-2462	3.9	16
38	An investigation into the effect of tooth profile errors on gear rattle. <i>Journal of Sound and Vibration</i> , 2010 , 329, 3495-3506	3.9	32
37	Application of the bispectrum for detection of small nonlinearities excited sinusoidally. <i>Journal of Sound and Vibration</i> , 2010 , 329, 4279-4293	3.9	39
36	Generalised modal stability of inclined cables subjected to support excitations. <i>Journal of Sound and Vibration</i> , 2010 , 329, 4515-4533	3.9	36
35	Low-frequency vibration modulation of guided waves to image nonlinear scatterers for structural health monitoring. <i>Smart Materials and Structures</i> , 2009 , 18, 065006	3.4	20
34	Causality in real-time dynamic substructure testing. <i>Mechatronics</i> , 2009 , 19, 1105-1115	3	17
33	Nonlinear dynamic response and modeling of a bi-stable composite plate for applications to adaptive structures. <i>Nonlinear Dynamics</i> , 2009 , 58, 259-272	5	52
32	Measurement of the ultrasonic nonlinearity of kissing bonds in adhesive joints. <i>NDT and E International</i> , 2009 , 42, 459-466	4.1	112
31	Intermittent gear rattle due to interactions between forcing and manufacturing errors. <i>Journal of Sound and Vibration</i> , 2009 , 321, 913-935	3.9	33
30	Adaptive backstepping fault-tolerant control for flexible spacecraft with bounded unknown disturbances 2009 ,		2
29	Interaction Between In-Plane and Out-of-Plane Cable Modes for a Cable-Deck System 2009 ,		1
28	Estimation of upper-limb orientation based on accelerometer and gyroscope measurements. <i>IEEE Transactions on Biomedical Engineering</i> , 2008 , 55, 746-54	5	65
27	A modified model reference adaptive control approach for systems with noise or unmodelled dynamics. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2008 , 222, 197-208	1	7
26	Experimental continuation of periodic orbits through a fold. <i>Physical Review Letters</i> , 2008 , 100, 244101	7.4	61
25	Novel coupling Rosenbrock-based algorithms for real-time dynamic substructure testing. <i>Earthquake Engineering and Structural Dynamics</i> , 2008 , 37, 339-360	4	40
24	Factors affecting the ultrasonic intermodulation crack detection technique using bispectral analysis. <i>NDT and E International</i> , 2008 , 41, 223-234	4.1	43

23	Modal stability of inclined cables subjected to vertical support excitation. <i>Journal of Sound and Vibration</i> , 2008 , 318, 565-579	3.9	41
22	Real-Time Testing With Dynamic Substructuring. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2008 , 293-342	0.6	8
21	Real-time hybrid experiments with Newmark integration, MCSmd outer-loop control and multi-tasking strategies. <i>Earthquake Engineering and Structural Dynamics</i> , 2007 , 36, 119-141	4	80
20	Parametric variation of a coupled pendulum-oscillator system using real-time dynamic substructuring. <i>Structural Control and Health Monitoring</i> , 2007 , 14, 991-1012	4.5	21
19	Assessment of controller strategies for real-time dynamic substructuring of a lightly damped system. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2007 , 221, 235-250	1	4
18	Adaptive Control Strategy for Dynamic Substructuring Tests. <i>Journal of Engineering Mechanics - ASCE</i> , 2007 , 133, 864-873	2.4	20
17	Bispectral Analysis of Ultrasonic Inter-Modulation Data for Improved Defect Detection. <i>AIP Conference Proceedings</i> , 2006 ,	0	4
16	Global crack detection using bispectral analysis. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006 , 462, 1515-1530	2.4	59
15	Model reference adaptive control of a nonsmooth dynamical system. <i>Nonlinear Dynamics</i> , 2006 , 46, 323-335	6	
14	Development of a Vibrating Wire Strain Gauge for Measuring Small Strains in Concrete Beams. <i>Strain</i> , 2005 , 41, 3-9	1.7	37
13	Control issues relating to real-time substructuring experiments using a shaking table. <i>Earthquake Engineering and Structural Dynamics</i> , 2005 , 34, 1171-1192	4	71
12	Stability analysis of real-time dynamic substructuring using delay differential equation models. <i>Earthquake Engineering and Structural Dynamics</i> , 2005 , 34, 1817-1832	4	133
11	An Improved Substructuring Control Strategy based on the Adaptive Minimal Control Synthesis Control Algorithm. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2005 , 219, 305-317	1	10
10	A Minimal Controller Synthesis Algorithm for Narrow-Band Applications. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2005 , 219, 591-607 ¹		3
9	The error-based minimal control synthesis algorithm with integral action. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2003 , 217, 187-201 ¹		5
8	Nonlinear Vibration Characteristics of Damaged Concrete Beams. <i>Journal of Structural Engineering</i> , 2003 , 129, 260-268	3	66
7	Evaluating Longitudinal Unsteady Aerodynamic Effects in Stall for a T-Tail Transport Model. <i>Journal of Aircraft</i> , 1-13	1.6	1
6	The error-based minimal control synthesis algorithm with integral action		5

5	An Improved Substructuring Control Strategy based on the Adaptive Minimal Control Synthesis Control Algorithm		1
4	Enhancing pantograph-catenary dynamic performance using an inertance-integrated damping system. <i>Vehicle System Dynamics</i> ,1-24	2.8	5
3	Realising embedded stiffness in hydraulic implementations of stiffness-damping-inertance configurations. <i>JVC/Journal of Vibration and Control</i> ,107754632110337	2	1
2	Efficient energy balancing across multiple harmonics of nonlinear normal modes. <i>Nonlinear Dynamics</i> ,1	5	
1	Derivation of control inputs for deep stall recovery using nonlinear frequency analysis. <i>Aeronautical Journal</i> ,1-23	0.9	