Simon A Neild

List of Publications by Citations

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	Using an inerter-based device for structural vibration suppression. *Earthquake Engineering and Structural Dynamics*, **2014**, 43, 1129-1147	4	350
219	Vibration suppression of cables using tuned inerter dampers. *Engineering Structures*, **2016**, 122, 62-71	4.7	138
218	Stability analysis of real-time dynamic substructuring using delay differential equation models. *Earthquake Engineering and Structural Dynamics*, **2005**, 34, 1817-1832	4	133
217	Measurement of the ultrasonic nonlinearity of kissing bonds in adhesive joints. *NDT and E International*, **2009**, 42, 459-466	4.1	112
216	A nonlinear spring mechanism incorporating a bistable composite plate for vibration isolation. *Journal of Sound and Vibration*, **2013**, 332, 6265-6275	3.9	89
215	Identification of backbone curves of nonlinear systems from resonance decay responses. *Journal of Sound and Vibration*, **2015**, 348, 224-238	3.9	82
214	Real-time hybrid experiments with Newmark integration, MCSmd outer-loop control and multi-tasking strategies. *Earthquake Engineering and Structural Dynamics*, **2007**, 36, 119-141	4	80
213	An electromagnetic inerter-based vibration suppression device. *Smart Materials and Structures*, **2015**, 24, 055015	3.4	73
212	Assessing the effect of nonlinearities on the performance of a tuned inerter damper. *Structural Control and Health Monitoring*, **2017**, 24, e1879	4.5	72
211	Control issues relating to real-time substructuring experiments using a shaking table. *Earthquake Engineering and Structural Dynamics*, **2005**, 34, 1171-1192	4	71
210	Optimal configurations for a linear vibration suppression device in a multi-storey building. *Structural Control and Health Monitoring*, **2017**, 24, e1887	4.5	69
209	Robust identification of backbone curves using control-based continuation. *Journal of Sound and Vibration*, **2016**, 367, 145-158	3.9	69
208	Nonlinear Vibration Characteristics of Damaged Concrete Beams. *Journal of Structural Engineering*, **2003**, 129, 260-268	3	66
207	Estimation of upper-limb orientation based on accelerometer and gyroscope measurements. *IEEE Transactions on Biomedical Engineering*, **2008**, 55, 746-54	5	65
206	Experimental continuation of periodic orbits through a fold. *Physical Review Letters*, **2008**, 100, 244101	7.4	61
205	Dynamic Snap-through for Morphing of Bi-stable Composite Plates. *Journal of Intelligent Material Systems and Structures*, **2011**, 22, 103-112	2.3	60
204	Dynamic analysis of high static low dynamic stiffness vibration isolation mounts. *Journal of Sound and Vibration*, **2013**, 332, 1437-1455	3.9	59

203	Global crack detection using bispectral analysis. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2006**, 462, 1515-1530	2.4	59
202	Applying the method of normal forms to second-order nonlinear vibration problems. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2011**, 467, 1141-1163	2.4	58
201	Interpreting the forced responses of a two-degree-of-freedom nonlinear oscillator using backbone curves. *Journal of Sound and Vibration*, **2015**, 349, 276-288	3.9	55
200	Inerter-Based Configurations for Main-Landing-Gear Shimmy Suppression. *Journal of Aircraft*, **2017**, 54, 684-693	1.6	54
199	Nonlinear dynamic response and modeling of a bi-stable composite plate for applications to adaptive structures. *Nonlinear Dynamics*, **2009**, 58, 259-272	5	52
198	On the cross-well dynamics of a bi-stable composite plate. *Journal of Sound and Vibration*, **2011**, 330, 3424-3441	3.9	45
197	Factors affecting the ultrasonic intermodulation crack detection technique using bispectral analysis. *NDT and E International*, **2008**, 41, 223-234	4.1	43
196	An optimised tuned mass damper/harvester device. *Structural Control and Health Monitoring*, **2014**, 21, 1154-1169	4.5	42
195	Dynamic analysis and performance evaluation of nonlinear inerter-based vibration isolators. *Nonlinear Dynamics*, **2020**, 99, 1823-1839	5	42
194	Periodic responses of a structure with 3:1 internal resonance. *Mechanical Systems and Signal Processing*, **2016**, 81, 19-34	7.8	42
193	Bifurcations of backbone curves for systems of coupled nonlinear two mass oscillator. *Nonlinear Dynamics*, **2014**, 77, 311-320	5	41
192	Modal stability of inclined cables subjected to vertical support excitation. *Journal of Sound and Vibration*, **2008**, 318, 565-579	3.9	41
191	Novel coupling Rosenbrock-based algorithms for real-time dynamic substructure testing. *Earthquake Engineering and Structural Dynamics*, **2008**, 37, 339-360	4	40
190	Application of the bispectrum for detection of small nonlinearities excited sinusoidally. *Journal of Sound and Vibration*, **2010**, 329, 4279-4293	3.9	39
189	Development of a Vibrating Wire Strain Gauge for Measuring Small Strains in Concrete Beams. *Strain*, **2005**, 41, 3-9	1.7	37
188	The use of normal forms for analysing nonlinear mechanical vibrations. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2015**, 373,	3	36
187	Generalised modal stability of inclined cables subjected to support excitations. *Journal of Sound and Vibration*, **2010**, 329, 4515-4533	3.9	36
186	Comparison of the dynamic performance of nonlinear one and two degree-of-freedom vibration isolators with quasi-zero stiffness. *Nonlinear Dynamics*, **2017**, 88, 635-654	5	35

185	Modelling and measurement of the nonlinear behaviour of kissing bonds in adhesive joints. *NDT and E International*, **2012**, 47, 18-25	4.1	33
184	Upset Dynamics of an Airliner Model: A Nonlinear Bifurcation Analysis. *Journal of Aircraft*, **2013**, 50, 1832-1842	1.6	33
183	Intermittent gear rattle due to interactions between forcing and manufacturing errors. *Journal of Sound and Vibration*, **2009**, 321, 913-935	3.9	33
182	An investigation into the effect of tooth profile errors on gear rattle. *Journal of Sound and Vibration* , **2010**, 329, 3495-3506	3.9	32
181	Vibroacoustic optimization of anti-tetrachiral and auxetic hexagonal sandwich panels with gradient geometry. *Smart Materials and Structures*, **2016**, 25, 054012	3.4	32
180	Performance-based seismic design of tuned inerter dampers. *Structural Control and Health Monitoring*, **2019**, 26, e2346	4.5	31
179	The bandwidth of optimized nonlinear vibration-based energy harvesters. *Smart Materials and Structures*, **2014**, 23, 055019	3.4	31
178	Optimum resistive loads for vibration-based electromagnetic energy harvesters with a stiffening nonlinearity. *Journal of Intelligent Material Systems and Structures*, **2014**, 25, 1757-1770	2.3	31
177	An analytical approach for detecting isolated periodic solution branches in weakly nonlinear structures. *Journal of Sound and Vibration*, **2016**, 379, 150-165	3.9	30
176	Using an inerter-based suspension to improve both passenger comfort and track wear in railway vehicles. *Vehicle System Dynamics*, **2020**, 58, 472-493	2.8	29
175	Model updating strategy for structures with localised nonlinearities using frequency response measurements. *Mechanical Systems and Signal Processing*, **2018**, 100, 940-961	7.8	28
174	Out-of-unison resonance in weakly nonlinear coupled oscillators. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2015**, 471, 20140659	2.4	27
173	Rosenbrock-based algorithms and subcycling strategies for real-time nonlinear substructure testing. *Earthquake Engineering and Structural Dynamics*, **2011**, 40, 1-19	4	27
172	Low order model for the dynamics of bi-stable composite plates. *Journal of Intelligent Material Systems and Structures*, **2011**, 22, 2025-2043	2.3	24
171	Bifurcation analysis of a parametrically excited inclined cable close to two-to-one internal resonance. *Journal of Sound and Vibration*, **2011**, 330, 6023-6035	3.9	23
170	Application of control-based continuation to a nonlinear structure with harmonically coupled modes. *Mechanical Systems and Signal Processing*, **2019**, 120, 449-464	7.8	23
169	Identification of systems containing nonlinear stiffnesses using backbone curves. *Mechanical Systems and Signal Processing*, **2017**, 84, 116-135	7.8	22
168	Identifying the significance of nonlinear normal modes. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2017**, 473, 20160789	2.4	22

167	Experimental Tracking of Limit-Point Bifurcations and Backbone Curves Using Control-Based Continuation. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2017**, 27, 1730002	2	22
166	An electromagnetic vibration absorber with harvesting and tuning capabilities. *Structural Control and Health Monitoring*, **2015**, 22, 1359-1372	4.5	22
165	Numerical continuation and bifurcation analysis in aircraft design: an industrial perspective. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2015**, 373,	3	22
164	Measuring bulk material nonlinearity using harmonic generation. *NDT and E International*, **2012**, 48, 46-53	4.1	21
163	Influence of Variable Side-Stay Geometry on the Shimmy Dynamics of an Aircraft Dual-Wheel Main Landing Gear. *SIAM Journal on Applied Dynamical Systems*, **2013**, 12, 1181-1209	2.8	21
162	Parametric variation of a coupled pendulum-oscillator system using real-time dynamic substructuring. *Structural Control and Health Monitoring*, **2007**, 14, 991-1012	4.5	21
161	Effects of experimental variables on the nonlinear harmonic generation technique. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2011**, 58, 1442-51	3.2	20
160	Low-frequency vibration modulation of guided waves to image nonlinear scatterers for structural health monitoring. *Smart Materials and Structures*, **2009**, 18, 065006	3.4	20
159	Quasi-active suspension design using magnetorheological dampers. *Journal of Sound and Vibration*, **2011**, 330, 2201-2219	3.9	20
158	Adaptive Control Strategy for Dynamic Substructuring Tests. *Journal of Engineering Mechanics - ASCE*, **2007**, 133, 864-873	2.4	20
157	Fast Bayesian identification of a class of elastic weakly nonlinear systems using backbone curves. *Journal of Sound and Vibration*, **2016**, 360, 156-170	3.9	19
156	Using continuation analysis to identify shimmy-suppression devices for an aircraft main landing gear. *Journal of Sound and Vibration*, **2017**, 408, 234-251	3.9	19
155	Optimal Inerter-Based Shock Strut Configurations for Landing-Gear Touchdown Performance. *Journal of Aircraft*, **2017**, 54, 1901-1909	1.6	19
154	Nonlinear Dynamics of Aircraft Controller Characteristics Outside the Standard Flight Envelope. *Journal of Guidance, Control, and Dynamics*, **2015**, 38, 2301-2308	2.1	19
153	Control-Based Continuation of Unstable Periodic Orbits. *Journal of Computational and Nonlinear Dynamics*, **2011**, 6,	1.4	19
152	Bifurcation Analysis of a Coupled Nose-Landing-Gear Fuselage System. *Journal of Aircraft*, **2014**, 51, 259-272	1.6	17
151	Causality in real-time dynamic substructure testing. *Mechatronics*, **2009**, 19, 1105-1115	3	17
150	Finite element model calibration of a nonlinear perforated plate. *Journal of Sound and Vibration*, **2017**, 392, 280-294	3.9	16

149	A generalized frequency detuning method for multidegree-of-freedom oscillators with nonlinear stiffness. *Nonlinear Dynamics*, **2013**, 73, 649-663	5	16
148	Relieving the effect of static load errors in nonlinear vibration isolation mounts through stiffness asymmetries. *Journal of Sound and Vibration*, **2015**, 339, 84-98	3.9	16
147	Vibration damping in bolted friction beam-columns. *Journal of Sound and Vibration*, **2011**, 330, 1665-1679	3.9	16
146	Generalisation and optimisation of semi-active, on□off switching controllers for single degree-of-freedom systems. *Journal of Sound and Vibration*, **2010**, 329, 2450-2462	3.9	16
145	Numerical continuation in nonlinear experiments using local Gaussian process regression. *Nonlinear Dynamics*, **2019**, 98, 2811-2826	5	15
144	Numerical Continuation Analysis of a Dual-Sidestay Main Landing Gear Mechanism. *Journal of Aircraft*, **2014**, 51, 129-143	1.6	15
143	Effects of Freeplay on Dynamic Stability of an Aircraft Main Landing Gear. *Journal of Aircraft*, **2013**, 50, 1908-1922	1.6	15
142	Passive vibration control: a structure-immittance approach. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2017**, 473, 20170011	2.4	14
141	Semi-active damping using a hybrid control approach. *Journal of Intelligent Material Systems and Structures*, **2012**, 23, 2103-2116	2.3	14
140	Optimization of a Main Landing Gear Locking Mechanism Using Bifurcation Analysis. *Journal of Aircraft*, **2017**, 54, 2126-2139	1.6	13
139	Vehicle vibration suppression using an inerter-based mechatronic device. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2020**, 234, 2592-2601	1.4	13
138	Substructurability: the effect of interface location on a real-time dynamic substructuring test. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2016**, 472, 20160433	2.4	12
137	Pulse-Echo Harmonic Generation Measurements for Non-destructive Evaluation. *Journal of Nondestructive Evaluation*, **2014**, 33, 205-215	2.1	12
136	Resonant response functions for nonlinear oscillators with polynomial type nonlinearities. *Journal of Sound and Vibration*, **2013**, 332, 1777-1788	3.9	12
135	Synthesis of essential-regular bicubic impedances. *International Journal of Circuit Theory and Applications*, **2017**, 45, 1482-1496	2	11
134	Using a damper amplification factor to increase energy dissipation in structures. *Engineering Structures*, **2015**, 84, 162-171	4.7	11
133	Supporting brace sizing in structures with added linear viscous fluid dampers: A filter design solution. *Earthquake Engineering and Structural Dynamics*, **2014**, 43, 1999-2013	4	10
132	Modelling harmonic generation measurements in solids. *Ultrasonics*, **2014**, 54, 442-50	3.5	10

131	An Improved Substructuring Control Strategy based on the Adaptive Minimal Control Synthesis Control Algorithm. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2005**, 219, 305-317	1	10
130	Veering and nonlinear interactions of a clamped beam in bending and torsion. *Journal of Sound and Vibration*, **2018**, 416, 1-16	3.9	9
129	The influence of phase-locking on internal resonance from a nonlinear normal mode perspective. *Journal of Sound and Vibration*, **2016**, 379, 135-149	3.9	9
128	Frequency response expansion strategy for nonlinear structures. *Mechanical Systems and Signal Processing*, **2019**, 116, 505-529	7.8	9
127	A noniterative design procedure for supplemental brace-damper systems in single-degree-of-freedom systems. *Earthquake Engineering and Structural Dynamics*, **2013**, 42, 2361-2367	4	9
126	Comparing the direct normal form and multiple scales methods through frequency detuning. *Nonlinear Dynamics*, **2018**, 94, 2919-2935	5	9
125	Comparing the direct normal form method with harmonic balance and the method of multiple scales. *Procedia Engineering*, **2017**, 199, 869-874		8
124	Including Inerters in Aircraft Landing Gear Shock Strut to Improve the Touch-down Performance. *Procedia Engineering*, **2017**, 199, 1689-1694		8
123	(N-1) modal interactions of a three-degree-of-freedom system with cubic elastic nonlinearities. *Nonlinear Dynamics*, **2016**, 83, 497-511	5	8
122	Numerical Continuation of Limit Cycle Oscillations and Bifurcations in High-Aspect-Ratio Wings. *Aerospace*, **2018**, 5, 78	2.5	8
121	On the assessment of passive devices for structural control via real-time dynamic substructuring. *Structural Control and Health Monitoring*, **2012**, 19, 701-722	4.5	8
120	Power-constrained intermittent control. *International Journal of Control*, **2013**, 86, 396-409	1.5	8
119	Real-Time Testing With Dynamic Substructuring. *CISM International Centre for Mechanical Sciences, Courses and Lectures*, **2008**, 293-342	0.6	8
118	Vibration suppression for monopile and spar-buoy offshore wind turbines using the structure-immittance approach. *Wind Energy*, **2020**, 23, 1966-1985	3.4	8
117	Sizing High-Aspect-Ratio Wings with a Geometrically Nonlinear Beam Model. *Journal of Aircraft*, **2019**, 56, 1455-1470	1.6	7
116	The effect of nonlinear cross-coupling on reduced-order modelling. *International Journal of Non-Linear Mechanics*, **2019**, 116, 7-17	2.8	7
115	Nonlinear Vibration with Control. *Solid Mechanics and Its Applications*, **2015**,	0.4	7
114	Impact of Controller Delays on the Nonlinear Dynamics of Remotely Piloted Aircraft. *Journal of Guidance, Control, and Dynamics*, **2016**, 39, 292-300	2.1	7

113	Force appropriation of nonlinear structures. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2018**, 474, 20170880	2.4	7
112	Performance Analysis of Cables with Attached Tuned-Inerter-Dampers. *Conference Proceedings of the Society for Experimental Mechanics*, **2015**, 433-441	0.3	7
111	Bandwidth of a Nonlinear Harvester with Optimized Electrical Load. *Journal of Physics: Conference Series*, **2013**, 476, 012071	0.3	7
110	A modified model reference adaptive control approach for systems with noise or unmodelled dynamics. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2008**, 222, 197-208	1	7
109	Indirect reduced-order modelling: using nonlinear manifolds to conserve kinetic energy. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2020**, 476, 20200589	2.4	7
108	Investigation of gear walk suppression while maintaining braking performance in a main landing gear. *Aerospace Science and Technology*, **2019**, 91, 122-135	4.9	6
107	Vibration Dynamics of an Inclined Cable Excited Near Its Second Natural Frequency. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2014**, 24, 1430024	2	6
106	A bifurcation study to guide the design of a landing gear with a combined uplock/downlock mechanism. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2014**, 470, 20140332	2.4	6
105	Higher order accuracy analysis of the second-order normal form method. *Nonlinear Dynamics*, **2012**, 70, 2175-2185	5	6
104	Model reference adaptive control of a nonsmooth dynamical system. *Nonlinear Dynamics*, **2006**, 46, 323-335	5	6
103	Accounting for Quasi-Static Coupling in Nonlinear Dynamic Reduced-Order Models. *Journal of Computational and Nonlinear Dynamics*, **2020**, 15,	1.4	6
102	Approximate Methods for Analysing Nonlinear Structures **2012**, 53-109		6
101	Evaluation of Aircraft Model Upset Behaviour Using Wind Tunnel Manoeuvre Rig **2015**,		5
100	On the Effect of Including Geometric Nonlinearity in the Sizing of a Wing **2018**,		5
99	On the geometrically exact low-order modelling of a flexible beam: formulation and numerical tests. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2018**, 474, 20180423	2.4	5
98	Inverse dynamics modelling of upper-limb tremor, with cross-correlation analysis. *Healthcare Technology Letters*, **2014**, 1, 59-63	1.9	5
97	EXPERIMENTAL AND THEORETICAL CHARACTERIZATION OF KISSING BONDS IN ADHESIVE JOINT USING NON-LINEAR ULTRASONIC MEASUREMENT **2010**,		5
96	A review of non-linear structural control techniques. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2011**, 225, 759-770	1.3	5

95	The error-based minimal control synthesis algorithm with integral action. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2003**, 217, 187-201	1	5
94	The error-based minimal control synthesis algorithm with integral action		5
93	Effect of Actuator Saturation on Pilot-Induced Oscillation: A Nonlinear Bifurcation Analysis. *Journal of Guidance, Control, and Dynamics*, **2021**, 44, 1018-1026	2.1	5
92	Conditions for the existence of isolated backbone curves. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2019**, 475, 20190374	2.4	5
91	Experimental Investigation of Aerodynamic Hysteresis Using a Five-Degree-of-Freedom Wind-Tunnel Maneuver Rig. *Journal of Aircraft*, **2019**, 56, 1029-1039	1.6	5
90	Robust Control of a Cable From a Hyperbolic Partial Differential Equation Model. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 1343-1351	4.8	5
89	Frequency-Domain Bifurcation Analysis of a Nonlinear Flight Dynamics Model. *Journal of Guidance, Control, and Dynamics*, **2021**, 44, 138-150	2.1	5
88	Enhancing pantograph-catenary dynamic performance using an inertance-integrated damping system. *Vehicle System Dynamics*,1-24	2.8	5
87	Minimally Constrained Flight Simulation in Wind Tunnel. *Journal of Aircraft*, **2019**, 56, 1353-1366	1.6	4
86	Optimal fluid passageway design methodology for hydraulic engine mounts considering both low and high frequency performances. *JVC/Journal of Vibration and Control*, **2019**, 25, 2749-2757	2	4
85	Experimentally measuring an isolated branch of Nonlinear normal modes. *Journal of Sound and Vibration*, **2019**, 457, 213-226	3.9	4
84	Aeroelastic Modelling of Highly Flexible Wings **2016**,		4
83	Nonlinear Modal Interaction Analysis for a Three Degree-of-Freedom System with Cubic Nonlinearities. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 123-131	0.3	4
82	Single Source Three Dimensional Capture of Full Field Plate Vibrations. *Experimental Mechanics*, **2012**, 52, 965-974	2.6	4
81	Bispectral Analysis of Ultrasonic Inter-Modulation Data for Improved Defect Detection. *AIP Conference Proceedings*, **2006**,	0	4
80	Assessment of controller strategies for real-time dynamic substructuring of a lightly damped system. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2007**, 221, 235-250	1	4
79	Passive vibration suppression using inerters for a multi-storey building structure. *Journal of Physics: Conference Series*, **2016**, 744, 012044	0.3	4
78	Improving the track friendliness of a four-axle railway vehicle using an inertance-integrated lateral primary suspension. *Vehicle System Dynamics*, **2021**, 59, 115-134	2.8	4

77	Passive Gust Loads Alleviation in a Truss-Braced Wing Using an Inerter-Based Device. *Journal of Aircraft*, **2019**, 56, 2260-2271	1.6	3
76	Using frequency detuning to compare analytical approximations for forced responses. *Nonlinear Dynamics*, **2019**, 98, 2795-2809	5	3
75	Identification of beneficial mass-included inerter-based vibration suppression configurations. *Journal of the Franklin Institute*, **2019**, 356, 7836-7854	4	3
74	Investigation into the Interaction of Nose Landing Gear and Fuselage Dynamics. *Journal of Aircraft*, **2016**, 53, 881-891	1.6	3
73	Personalised profiling to identify clinically relevant changes in tremor due to multiple sclerosis. *BMC Medical Informatics and Decision Making*, **2019**, 19, 162	3.6	3
72	Optimal design of inerter-integrated vibration absorbers for seismic retrofitting of a high-rise building in Colombia. *Journal of Physics: Conference Series*, **2019**, 1264, 012031	0.3	3
71	Dynamically dual vibration absorbers: a bond graph approach to vibration control. *Systems Science and Control Engineering*, **2015**, 3, 113-128	2	3
70	The Selection of the Linearized Natural Frequency for the Second-Order Normal Form Method **2011**,		3
69	Towards a Technique for Nonlinear Modal Analysis **2012**,		3
68	A Minimal Controller Synthesis Algorithm for Narrow-Band Applications. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2005**, 219, 591-607 [1]		3
67	Design and Performance Analysis of Inerter-Based Vibration Control Systems. *Conference Proceedings of the Society for Experimental Mechanics*, **2014**, 493-500	0.3	3
66	Risk assessment of cables vibration-suppressed with tuned-inerter dampers. *Engineering Structures*, **2020**, 222, 111127	4.7	3
65	Optimal design of a pair of vibration suppression devices for a multi-storey building. *Structural Control and Health Monitoring*, **2020**, 27, e2498	4.5	3
64	Efficient aeroelastic beam modelling and the selection of a structural shape basis. *International Journal of Non-Linear Mechanics*, **2019**, 112, 73-84	2.8	3
63	Flight Performance and Stability Analysis of Impaired Aircraft Using Constrained Bifurcation and Continuation Method **2018**,		2
62	Wind Tunnel Manoeuvre Rig: A Multi-DOF Test Platform for Model Aircraft **2016**,		2
61	Systems with Bilinear Stiffness: Extraction of Backbone Curves and Identification. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 307-313	0.3	2
60	Beams. *Solid Mechanics and Its Applications*, **2015**, 261-312	0.4	2

59	Bifurcation Analysis of a Coupled Nose Landing Gear-Fuselage System **2012**,		2
58	Adaptive backstepping fault-tolerant control for flexible spacecraft with bounded unknown disturbances **2009**,		2
57	Identifying phase-varying periodic behaviour in conservative nonlinear systems. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2020**, 476, 20200028	2.4	2
56	Real-Time Hybrid Testing of Strut-Braced Wing Under Aerodynamic Loading Using an Electrodynamic Actuator. *Experimental Techniques*, **2020**, 44, 821-835	1.4	2
55	Robustness of nonlinear parameter identification in the presence of process noise using control-based continuation. *Nonlinear Dynamics*, **2021**, 104, 885-900	5	2
54	Detecting internal resonances during model reduction. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2021**, 477, 20210215	2.4	2
53	Slender-Wing Beam Reduction Method for Gradient-Based Aeroelastic Design Optimization. *AIAA Journal*, **2018**, 56, 4529-4545	2.1	2
52	Using an inerter to enhance an active-passive-combined vehicle suspension system. *International Journal of Mechanical Sciences*, **2021**, 204, 106535	5.5	2
51	Simplifying Transformations for Nonlinear Systems: Part II, Statistical Analysis of Harmonic Cancellation. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 321-326	0.3	1
50	The Significance of Nonlinear Normal Modes for Forced Responses. *Conference Proceedings of the Society for Experimental Mechanics*, **2017**, 135-142	0.3	1
49	Nonlinear Phase Separation Testing of an Experimental Wing-Engine Structure. *Conference Proceedings of the Society for Experimental Mechanics*, **2017**, 115-117	0.3	1
48	Passive Gust Load Alleviation In a Truss-Braced Wing Using an Inerter-Based Device **2018**,		1
47	Simplifying Transformations for Nonlinear Systems: Part I, An Optimisation-Based Variant of Normal Form Analysis. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 315-320	0.3	1
46	Relating Backbone Curves to the Forced Responses of Nonlinear Systems. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 113-122	0.3	1
45	A methodology for identifying optimum vibration absorbers with a reaction mass. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2019**, 475, 20190232	2.4	1
44	Sensitivity of the Generic Transport Model upset dynamics to time delay **2014**,		1
43	The Structure-Immittance Approach for Passive Vibration Control. *Procedia Engineering*, **2017**, 199, 1834-1839		1
42	Relating sensor-based tremor metrics to a conventional clinical scale **2014**,		1

41	Experimental Investigation Into A Vibration Isolator Incorporating A Bistable Composite Plate **2013** ,		1
40	Robust Measurement Feedback Control of an Inclined Cable. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 55-60		1
39	Influence of Damping on the Vibration of an Inclined Cable Subjected to Support Excitation **2011**,		1
38	Dynamic excitation of cables by deck and/or tower motion. *Proceedings of the Institution of Civil Engineers: Bridge Engineering*, **2010**, 163, 101-112	0.5	1
37	Interaction Between In-Plane and Out-of-Plane Cable Modes for a Cable-Deck System **2009**,		1
36	Evaluating Longitudinal Unsteady Aerodynamic Effects in Stall for a T-Tail Transport Model. *Journal of Aircraft*,1-13	1.6	1
35	An Improved Substructuring Control Strategy based on the Adaptive Minimal Control Synthesis Control Algorithm		1
34	Bifurcation Analysis of the Generic Transport Model for Open-Loop and Closed-Loop Configurations **2013**,		1
33	Approximate Methods for Analysing Nonlinear Vibrations. *Solid Mechanics and Its Applications*, **2015** , 145-209	0.4	1
32	The Importance of Phase-Locking in Nonlinear Modal Interactions. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 121-130	0.3	1
31	Experimental Identification of a Structure with Internal Resonance. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 37-45	0.3	1
30	An Explanation for Why Natural Frequencies Shifting in Structures with Membrane Stresses, Using Backbone Curve Models. *Conference Proceedings of the Society for Experimental Mechanics*, **2017**, 9-19	0.3	1
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