

# Simon A Neild

## List of Publications by Year in descending order

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232  
papers

5,555  
citations

76196

40  
h-index

110170

64  
g-index

239  
all docs

239  
docs citations

239  
times ranked

2575  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using an inerter-based device for structural vibration suppression. <i>Earthquake Engineering and Structural Dynamics</i> , 2014, 43, 1129-1147.	2.5	518
2	Vibration suppression of cables using tuned inerter dampers. <i>Engineering Structures</i> , 2016, 122, 62-71.	2.6	196
3	Stability analysis of real-time dynamic substructuring using delay differential equation models. <i>Earthquake Engineering and Structural Dynamics</i> , 2005, 34, 1817-1832.	2.5	159
4	Measurement of the ultrasonic nonlinearity of kissing bonds in adhesive joints. <i>NDT and E International</i> , 2009, 42, 459-466.	1.7	149
5	A nonlinear spring mechanism incorporating a bistable composite plate for vibration isolation. <i>Journal of Sound and Vibration</i> , 2013, 332, 6265-6275.	2.1	135
6	Identification of backbone curves of nonlinear systems from resonance decay responses. <i>Journal of Sound and Vibration</i> , 2015, 348, 224-238.	2.1	117
7	An electromagnetic inerter-based vibration suppression device. <i>Smart Materials and Structures</i> , 2015, 24, 055015.	1.8	98
8	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.	2.5	97
9	Robust identification of backbone curves using control-based continuation. <i>Journal of Sound and Vibration</i> , 2016, 367, 145-158.	2.1	95
10	Optimal configurations for a linear vibration suppression device in a multi-storey building. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1887.	1.9	90
11	Assessing the effect of nonlinearities on the performance of a tuned inerter damper. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1879.	1.9	90
12	Estimation of Upper-Limb Orientation Based on Accelerometer and Gyroscope Measurements. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 746-754.	2.5	85
13	Control issues relating to real-time substructuring experiments using a shaking table. <i>Earthquake Engineering and Structural Dynamics</i> , 2005, 34, 1171-1192.	2.5	83
14	Dynamic analysis of high static low dynamic stiffness vibration isolation mounts. <i>Journal of Sound and Vibration</i> , 2013, 332, 1437-1455.	2.1	79
15	Nonlinear Vibration Characteristics of Damaged Concrete Beams. <i>Journal of Structural Engineering</i> , 2003, 129, 260-268.	1.7	78
16	Experimental Continuation of Periodic Orbits through a Fold. <i>Physical Review Letters</i> , 2008, 100, 244101.	2.9	78
17	Inerter-Based Configurations for Main-Landing-Gear Shimmy Suppression. <i>Journal of Aircraft</i> , 2017, 54, 684-693.	1.7	78
18	Dynamic Snap-through for Morphing of Bi-stable Composite Plates. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 103-112.	1.4	77

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19	Nonlinear dynamic response and modeling of a bi-stable composite plate for applications to adaptive structures. <i>Nonlinear Dynamics</i> , 2009, 58, 259-272.	2.7	72
20	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.	2.1	70
21	Dynamic analysis and performance evaluation of nonlinear inerter-based vibration isolators. <i>Nonlinear Dynamics</i> , 2020, 99, 1823-1839.	2.7	70
22	Global crack detection using bispectral analysis. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006, 462, 1515-1530.	1.0	69
23	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.	1.0	65
24	On the cross-well dynamics of a bi-stable composite plate. <i>Journal of Sound and Vibration</i> , 2011, 330, 3424-3441.	2.1	62
25	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.	2.7	62
26	Modal stability of inclined cables subjected to vertical support excitation. <i>Journal of Sound and Vibration</i> , 2008, 318, 565-579.	2.1	55
27	Periodic responses of a structure with 3:1 internal resonance. <i>Mechanical Systems and Signal Processing</i> , 2016, 81, 19-34.	4.4	53
28	Factors affecting the ultrasonic intermodulation crack detection technique using bispectral analysis. <i>NDT and E International</i> , 2008, 41, 223-234.	1.7	51
29	An optimised tuned mass damper/harvester device. <i>Structural Control and Health Monitoring</i> , 2014, 21, 1154-1169.	1.9	51
30	Development of a Vibrating Wire Strain Gauge for Measuring Small Strains in Concrete Beams. <i>Strain</i> , 2005, 41, 3-9.	1.4	50
31	Novel coupling Rosenbrock-based algorithms for real-time dynamic substructure testing. <i>Earthquake Engineering and Structural Dynamics</i> , 2008, 37, 339-360.	2.5	50
32	Application of the bispectrum for detection of small nonlinearities excited sinusoidally. <i>Journal of Sound and Vibration</i> , 2010, 329, 4279-4293.	2.1	50
33	Bifurcations of backbone curves for systems of coupled nonlinear two mass oscillator. <i>Nonlinear Dynamics</i> , 2014, 77, 311-320.	2.7	48
34	Generalised modal stability of inclined cables subjected to support excitations. <i>Journal of Sound and Vibration</i> , 2010, 329, 4515-4533.	2.1	47
35	Performance-based seismic design of tuned inerter dampers. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2346.	1.9	46
36	Model updating strategy for structures with localised nonlinearities using frequency response measurements. <i>Mechanical Systems and Signal Processing</i> , 2018, 100, 940-961.	4.4	45

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37	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.	2.2	45
38	Vibroacoustic optimization of anti-tetrachiral and auxetic hexagonal sandwich panels with gradient geometry. <i>Smart Materials and Structures</i> , 2016, 25, 054012.	1.8	44
39	Modelling and measurement of the nonlinear behaviour of kissing bonds in adhesive joints. <i>NDT and E International</i> , 2012, 47, 18-25.	1.7	43
40	Upset Dynamics of an Airliner Model: A Nonlinear Bifurcation Analysis. <i>Journal of Aircraft</i> , 2013, 50, 1832-1842.	1.7	43
41	The use of normal forms for analysing nonlinear mechanical vibrations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140404.	1.6	43
42	Application of control-based continuation to a nonlinear structure with harmonically coupled modes. <i>Mechanical Systems and Signal Processing</i> , 2019, 120, 449-464.	4.4	43
43	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.	2.1	42
44	The bandwidth of optimized nonlinear vibration-based energy harvesters. <i>Smart Materials and Structures</i> , 2014, 23, 055019.	1.8	41
45	An investigation into the effect of tooth profile errors on gear rattle. <i>Journal of Sound and Vibration</i> , 2010, 329, 3495-3506.	2.1	39
46	An electromagnetic vibration absorber with harvesting and tuning capabilities. <i>Structural Control and Health Monitoring</i> , 2015, 22, 1359-1372.	1.9	39
47	An analytical approach for detecting isolated periodic solution branches in weakly nonlinear structures. <i>Journal of Sound and Vibration</i> , 2016, 379, 150-165.	2.1	39
48	Intermittent gear rattle due to interactions between forcing and manufacturing errors. <i>Journal of Sound and Vibration</i> , 2009, 321, 913-935.	2.1	38
49	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.	1.4	34
50	Identification of systems containing nonlinear stiffnesses using backbone curves. <i>Mechanical Systems and Signal Processing</i> , 2017, 84, 116-135.	4.4	33
51	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.	0.7	33
52	Rosenbrock-based algorithms and subcycling strategies for real-time nonlinear substructure testing. <i>Earthquake Engineering and Structural Dynamics</i> , 2011, 40, 1-19.	2.5	32
53	Numerical continuation and bifurcation analysis in aircraft design: an industrial perspective. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140406.	1.6	32
54	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.	1.0	31

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55	Optimal Inerter-Based Shock-Strut Configurations for Landing-Gear Touchdown Performance. Journal of Aircraft, 2017, 54, 1901-1909.	1.7	30
56	Effects of experimental variables on the nonlinear harmonic generation technique. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1442-1451.	1.7	29
57	Measuring bulk material nonlinearity using harmonic generation. NDT and E International, 2012, 48, 46-53.	1.7	29
58	Low order model for the dynamics of bi-stable composite plates. Journal of Intelligent Material Systems and Structures, 2011, 22, 2025-2043.	1.4	28
59	Fast Bayesian identification of a class of elastic weakly nonlinear systems using backbone curves. Journal of Sound and Vibration, 2016, 360, 156-170.	2.1	27
60	Effects of Freeplay on Dynamic Stability of an Aircraft Main Landing Gear. Journal of Aircraft, 2013, 50, 1908-1922.	1.7	26
61	Sensitivity of the Generic Transport Model upset dynamics to time delay. , 2014, , .		26
62	Numerical continuation in nonlinear experiments using local Gaussian process regression. Nonlinear Dynamics, 2019, 98, 2811-2826.	2.7	26
63	Bifurcation analysis of a parametrically excited inclined cable close to two-to-one internal resonance. Journal of Sound and Vibration, 2011, 330, 6023-6035.	2.1	25
64	Nonlinear Dynamics of Aircraft Controller Characteristics Outside the Standard Flight Envelope. Journal of Guidance, Control, and Dynamics, 2015, 38, 2301-2308.	1.6	25
65	Sizing High-Aspect-Ratio Wings with a Geometrically Nonlinear Beam Model. Journal of Aircraft, 2019, 56, 1455-1470.	1.7	25
66	Adaptive Control Strategy for Dynamic Substructuring Tests. Journal of Engineering Mechanics - ASCE, 2007, 133, 864-873.	1.6	24
67	Parametric variation of a coupled pendulum-oscillator system using real-time dynamic substructuring. Structural Control and Health Monitoring, 2007, 14, 991-1012.	1.9	24
68	Low-frequency vibration modulation of guided waves to image nonlinear scatterers for structural health monitoring. Smart Materials and Structures, 2009, 18, 065006.	1.8	24
69	Identifying the significance of nonlinear normal modes. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20160789.	1.0	24
70	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.	2.1	23
71	Control-Based Continuation of Unstable Periodic Orbits. Journal of Computational and Nonlinear Dynamics, 2011, 6, .	0.7	23
72	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.	0.7	23

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73	Quasi-active suspension design using magnetorheological dampers. <i>Journal of Sound and Vibration</i> , 2011, 330, 2201-2219.	2.1	21
74	Bifurcation Analysis of a Coupled Nose-Landing-Gear-Fuselage System. <i>Journal of Aircraft</i> , 2014, 51, 259-272.	1.7	21
75	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.	2.1	21
76	Vibration damping in bolted friction beam-columns. <i>Journal of Sound and Vibration</i> , 2011, 330, 1665-1679.	2.1	20
77	Causality in real-time dynamic substructure testing. <i>Mechatronics</i> , 2009, 19, 1105-1115.	2.0	19
78	Pulse-Echo Harmonic Generation Measurements for Non-destructive Evaluation. <i>Journal of Nondestructive Evaluation</i> , 2014, 33, 205-215.	1.1	19
79	Finite element model calibration of a nonlinear perforated plate. <i>Journal of Sound and Vibration</i> , 2017, 392, 280-294.	2.1	19
80	Synthesis of essential-regular bicubic impedances. <i>International Journal of Circuit Theory and Applications</i> , 2017, 45, 1482-1496.	1.3	19
81	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.	1.0	19
82	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.	1.1	19
83	Semi-active damping using a hybrid control approach. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 2103-2116.	1.4	18
84	Investigation of gear walk suppression while maintaining braking performance in a main landing gear. <i>Aerospace Science and Technology</i> , 2019, 91, 122-135.	2.5	18
85	Numerical Continuation Analysis of a Dual-Sidestay Main Landing Gear Mechanism. <i>Journal of Aircraft</i> , 2014, 51, 129-143.	1.7	17
86	Aeroelastic Modelling of Highly Flexible Wings. , 2016, , .		17
87	Passive vibration control: a structure-immittance approach. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170011.	1.0	17
88	Numerical Continuation of Limit Cycle Oscillations and Bifurcations in High-Aspect-Ratio Wings. <i>Aerospace</i> , 2018, 5, 78.	1.1	17
89	Using an inerter to enhance an active-passive-combined vehicle suspension system. <i>International Journal of Mechanical Sciences</i> , 2021, 204, 106535.	3.6	17
90	A generalized frequency detuning method for multidegree-of-freedom oscillators with nonlinear stiffness. <i>Nonlinear Dynamics</i> , 2013, 73, 649-663.	2.7	16

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91	Vibration suppression for monopile and sparâ€buoy offshore wind turbines using the structureâ€immittance approach. <i>Wind Energy</i> , 2020, 23, 1966-1985.	1.9	16
92	Modelling harmonic generation measurements in solids. <i>Ultrasonics</i> , 2014, 54, 442-450.	2.1	15
93	Optimization of a Main Landing Gear Locking Mechanism Using Bifurcation Analysis. <i>Journal of Aircraft</i> , 2017, 54, 2126-2139.	1.7	15
94	Enhancing pantograph-catenary dynamic performance using an inertance-integrated damping system. <i>Vehicle System Dynamics</i> , 2022, 60, 1909-1932.	2.2	15
95	Using a damper amplification factor to increase energy dissipation in structures. <i>Engineering Structures</i> , 2015, 84, 162-171.	2.6	14
96	Including Inerters in Aircraft Landing Gear Shock Strut to Improve the Touch-down Performance. <i>Procedia Engineering</i> , 2017, 199, 1689-1694.	1.2	14
97	Veering and nonlinear interactions of a clamped beam in bending and torsion. <i>Journal of Sound and Vibration</i> , 2018, 416, 1-16.	2.1	14
98	Resonant response functions for nonlinear oscillators with polynomial type nonlinearities. <i>Journal of Sound and Vibration</i> , 2013, 332, 1777-1788.	2.1	13
99	Comparing the direct normal form and multiple scales methods through frequency detuning. <i>Nonlinear Dynamics</i> , 2018, 94, 2919-2935.	2.7	13
100	Frequency response expansion strategy for nonlinear structures. <i>Mechanical Systems and Signal Processing</i> , 2019, 116, 505-529.	4.4	13
101	Frequency-Domain Bifurcation Analysis of a Nonlinear Flight Dynamics Model. <i>Journal of Guidance, Control, and Dynamics</i> , 2021, 44, 138-150.	1.6	13
102	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.	2.5	12
103	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.	1.0	12
104	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.	1.5	12
105	Robust Control of a Cable From a Hyperbolic Partial Differential Equation Model. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 1343-1351.	3.2	12
106	Robustness of nonlinear parameter identification in the presence of process noise using control-based continuation. <i>Nonlinear Dynamics</i> , 2021, 104, 885-900.	2.7	12
107	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.	0.7	11
108	A noniterative design procedure for supplemental braceâ€damper systems in singleâ€degreeâ€ofâ€freedom systems. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 2361-2367.	2.5	11

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109	Power-constrained intermittent control. <i>International Journal of Control</i> , 2013, 86, 396-409.	1.2	11
110	On the Effect of Including Geometric Nonlinearity in the Sizing of a Wing. , 2018, , .		11
111	The effect of nonlinear cross-coupling on reduced-order modelling. <i>International Journal of Non-Linear Mechanics</i> , 2019, 116, 7-17.	1.4	11
112	Accounting for Quasi-Static Coupling in Nonlinear Dynamic Reduced-Order Models. <i>Journal of Computational and Nonlinear Dynamics</i> , 2020, 15, .	0.7	11
113	Bandwidth of a Nonlinear Harvester with Optimized Electrical Load. <i>Journal of Physics: Conference Series</i> , 2013, 476, 012071.	0.3	10
114	Performance Analysis of Cables with Attached Tuned-Inerter-Dampers. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015, , 433-441.	0.3	10
115	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.	2.1	10
116	$N-1$ modal interactions of a three-degree-of-freedom system with cubic elastic nonlinearities. <i>Nonlinear Dynamics</i> , 2016, 83, 497-511.	2.7	10
117	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.	1.0	10
118	Optimal design of a pair of vibration suppression devices for a multi-storey building. <i>Structural Control and Health Monitoring</i> , 2020, 27, e2498.	1.9	10
119	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.	0.7	9
120	EXPERIMENTAL AND THEORETICAL CHARACTERIZATION OF KISSING BONDS IN ADHESIVE JOINT USING NON-LINEAR ULTRASONIC MEASUREMENT. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	9
121	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.	1.9	9
122	Experimental Investigation of Aerodynamic Hysteresis Using a Five-Degree-of-Freedom Wind-Tunnel Maneuver Rig. <i>Journal of Aircraft</i> , 2019, 56, 1029-1039.	1.7	9
123	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.	2.2	9
124	Effect of Actuator Saturation on Pilot-Induced Oscillation: A Nonlinear Bifurcation Analysis. <i>Journal of Guidance, Control, and Dynamics</i> , 2021, 44, 1018-1026.	1.6	9
125	Approximate Methods for Analysing Nonlinear Structures. , 2012, , 53-109.		9
126	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.	0.7	8



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127	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.	0.7	8
128	Evaluation of Aircraft Model Upset Behaviour Using Wind Tunnel Manoeuvre Rig. , 2015, , .		8
129	Impact of Controller Delays on the Nonlinear Dynamics of Remotely Piloted Aircraft. Journal of Guidance, Control, and Dynamics, 2016, 39, 292-300.	1.6	8
130	Comparing the direct normal form method with harmonic balance and the method of multiple scales. Procedia Engineering, 2017, 199, 869-874.	1.2	8
131	Real-Time Testing With Dynamic Substructuring. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2008, , 293-342.	0.3	8
132	Model reference adaptive control of a nonsmooth dynamical system. Nonlinear Dynamics, 2006, 46, 323-335.	2.7	7
133	Adaptive backstepping fault-tolerant control for flexible spacecraft with bounded unknown disturbances. , 2009, , .		7
134	Investigation into the Interaction of Nose Landing Gear and Fuselage Dynamics. Journal of Aircraft, 2016, 53, 881-891.	1.7	7
135	Force appropriation of nonlinear structures. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170880.	1.0	7
136	Personalised profiling to identify clinically relevant changes in tremor due to multiple sclerosis. BMC Medical Informatics and Decision Making, 2019, 19, 162.	1.5	7
137	Passive Gust Loads Alleviation in a Truss-Braced Wing Using an Inerter-Based Device. Journal of Aircraft, 2019, 56, 2260-2271.	1.7	7
138	The error-based minimal control synthesis algorithm with integral action. , 0, .		7
139	Analysing dynamic deep stall recovery using a nonlinear frequency approach. Nonlinear Dynamics, 2022, 108, 1179-1196.	2.7	7
140	Higher order accuracy analysis of the second-order normal form method. Nonlinear Dynamics, 2012, 70, 2175-2185.	2.7	6
141	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.	1.0	6
142	Minimally Constrained Flight Simulation in Wind Tunnel. Journal of Aircraft, 2019, 56, 1353-1366.	1.7	6
143	Conditions for the existence of isolated backbone curves. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190374.	1.0	6
144	Industrially Inspired Gust Loads Analysis of Various-Aspect-Ratio Wings Featuring Geometric Nonlinearity. Journal of Aircraft, 2020, 57, 13-28.	1.7	6

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145	Identifying limits of linear control design validity in nonlinear systems: a continuation-based approach. <i>Nonlinear Dynamics</i> , 2021, 104, 901-921.	2.7	6
146	Detecting internal resonances during model reduction. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, .	1.0	6
147	Bispectral Analysis of Ultrasonic Inter-Modulation Data for Improved Defect Detection. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	5
148	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.	0.7	5
149	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.	1.1	5
150	Inverse dynamics modelling of upperâ€limb tremor, with crossâ€correlation analysis. <i>Healthcare Technology Letters</i> , 2014, 1, 59-63.	1.9	5
151	Using frequency detuning to compare analytical approximations for forced responses. <i>Nonlinear Dynamics</i> , 2019, 98, 2795-2809.	2.7	5
152	Identification of beneficial mass-included inerter-based vibration suppression configurations. <i>Journal of the Franklin Institute</i> , 2019, 356, 7836-7854.	1.9	5
153	Efficient aeroelastic beam modelling and the selection of a structural shape basis. <i>International Journal of Non-Linear Mechanics</i> , 2019, 112, 73-84.	1.4	5
154	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.	1.0	5
155	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	5
156	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.	0.7	4
157	Single Source Three Dimensional Capture of Full Field Plate Vibrations. <i>Experimental Mechanics</i> , 2012, 52, 965-974.	1.1	4
158	Passive vibration suppression using inerters for a multi-storey building structure. <i>Journal of Physics: Conference Series</i> , 2016, 744, 012044.	0.3	4
159	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
160	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	4
161	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	4
162	Experimentally measuring an isolated branch of Nonlinear normal modes. <i>Journal of Sound and Vibration</i> , 2019, 457, 213-226.	2.1	4

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163	Risk assessment of cables vibration-suppressed with tuned-inerter dampers. <i>Engineering Structures</i> , 2020, 222, 111127.	2.6	4
164	Capturing nonlinear time-dependent aircraft dynamics using a wind tunnel manoeuvre rig. <i>Aerospace Science and Technology</i> , 2022, 121, 107325.	2.5	4
165	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.	0.3	3
166	The Selection of the Linearized Natural Frequency for the Second-Order Normal Form Method. , 2011, , .		3
167	Towards a Technique for Nonlinear Modal Analysis. , 2012, , .		3
168	Dynamically dual vibration absorbers: a bond graph approach to vibration control. <i>Systems Science and Control Engineering</i> , 2015, 3, 113-128.	1.8	3
169	Wind Tunnel Manoeuvre Rig: A Multi-DOF Test Platform for Model Aircraft. , 2016, , .		3
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