

# Michael Friswell

## List of Publications by Citations

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533  
papers

17,081  
citations

63  
h-index

111  
g-index

572  
ext. papers

19,667  
ext. citations

3.3  
avg, IF

7.2  
L-index

#	Paper	IF	Citations
533	Model Updating In Structural Dynamics: A Survey. <i>Journal of Sound and Vibration</i> , <b>1993</b> , 167, 347-375	3.9	1095
532	Finite Element Model Updating in Structural Dynamics. <i>Solid Mechanics and Its Applications</i> , <b>1995</b> ,	0.4	854
531	A Review of Morphing Aircraft. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2011</b> , 22, 823-877	2.3	741
530	The sensitivity method in finite element model updating: A tutorial. <i>Mechanical Systems and Signal Processing</i> , <b>2011</b> , 25, 2275-2296	7.8	517
529	SIMPLIFIED MODELS FOR THE LOCATION OF CRACKS IN BEAM STRUCTURES USING MEASURED VIBRATION DATA. <i>Journal of Sound and Vibration</i> , <b>2002</b> , 251, 13-38	3.9	285
528	Magnetopiezoelectric energy harvesting driven by random excitations. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 214103	3.4	255
527	Piezoelectric energy harvesting from broadband random vibrations. <i>Smart Materials and Structures</i> , <b>2009</b> , 18, 115005	3.4	249
526	Non-linear piezoelectric vibration energy harvesting from a vertical cantilever beam with tip mass. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2012</b> , 23, 1505-1521	2.3	239
525	Fixed-Time Attitude Control for Rigid Spacecraft With Actuator Saturation and Faults. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 1892-1898	4.8	235
524	A review of robust optimal design and its application in dynamics. <i>Computers and Structures</i> , <b>2005</b> , 83, 315-326	4.5	225
523	A review on shape memory alloys with applications to morphing aircraft. <i>Smart Materials and Structures</i> , <b>2014</b> , 23, 063001	3.4	207
522	Damage identification using inverse methods. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2007</b> , 365, 393-410	3	207
521	Model reduction using dynamic and iterated IRS techniques. <i>Journal of Sound and Vibration</i> , <b>1995</b> , 186, 311-323	3.9	195
520	A combined genetic and eigensensitivity algorithm for the location of damage in structures. <i>Computers and Structures</i> , <b>1998</b> , 69, 547-556	4.5	185
519	Dynamics of Rotating Machines <b>2010</b> ,		178
518	Crack Modeling for Structural Health Monitoring. <i>Structural Health Monitoring</i> , <b>2002</b> , 1, 139-148	4.4	174
517	Vibration of nonlocal KelvinVoigt viscoelastic damped Timoshenko beams. <i>International Journal of Engineering Science</i> , <b>2013</b> , 66-67, 1-13	5.7	163

516	The mechanics of composite corrugated structures: A review with applications in morphing aircraft. <i>Composite Structures</i> , <b>2015</b> , 133, 358-380	5.3	142
515	Equivalent models of corrugated panels. <i>International Journal of Solids and Structures</i> , <b>2012</b> , 49, 1453-1462	5.2	134
514	Perturbation methods for the estimation of parameter variability in stochastic model updating. <i>Mechanical Systems and Signal Processing</i> , <b>2008</b> , 22, 1751-1773	7.8	130
513	Automatic choice of measurement locations for dynamic testing. <i>AIAA Journal</i> , <b>1994</b> , 32, 407-414	2.1	124
512	Direct Updating of Damping and Stiffness Matrices. <i>AIAA Journal</i> , <b>1998</b> , 36, 491-493	2.1	123
511	REGULARISATION METHODS FOR FINITE ELEMENT MODEL UPDATING. <i>Mechanical Systems and Signal Processing</i> , <b>1998</b> , 12, 47-64	7.8	120
510	Stochastic model updating: Part 1 theory and simulated example. <i>Mechanical Systems and Signal Processing</i> , <b>2006</b> , 20, 1674-1695	7.8	116
509	Finite element model updating using experimental test data: parametrization and regularization. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2001</b> , 359, 169-186	3	108
508	The relationship between positive position feedback and output feedback controllers. <i>Smart Materials and Structures</i> , <b>1999</b> , 8, 285-291	3.4	108
507	FRICTION-INDUCED PARAMETRIC RESONANCES IN DISCS: EFFECT OF A NEGATIVE FRICTION VELOCITY RELATIONSHIP. <i>Journal of Sound and Vibration</i> , <b>1998</b> , 209, 251-264	3.9	104
506	Eigenderivative analysis of asymmetric non-conservative systems. <i>International Journal for Numerical Methods in Engineering</i> , <b>2001</b> , 51, 709-733	2.4	98
505	Identification of Dynamic Bearing Parameters: A Review. <i>The Shock and Vibration Digest</i> , <b>2004</b> , 36, 99-124		95
504	The analysis of piezomagnetoelastic energy harvesters under broadband random excitations. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 074904	2.5	90
503	Robust fault-tolerant control for spacecraft attitude stabilisation subject to input saturation. <i>IET Control Theory and Applications</i> , <b>2011</b> , 5, 271-282	2.5	90
502	Multistable composite plates with piecewise variation of lay-up in the planform. <i>International Journal of Solids and Structures</i> , <b>2009</b> , 46, 151-164	3.1	88
501	Decentralized Finite Time Attitude Synchronization Control of Satellite Formation Flying. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2013</b> , 36, 185-195	2.1	87
500	Analysis of thermally induced multistable composites. <i>International Journal of Solids and Structures</i> , <b>2008</b> , 45, 657-675	3.1	87
499	Turn costs change the value of animal search paths. <i>Ecology Letters</i> , <b>2013</b> , 16, 1145-50	10	85

498	The Derivatives of Repeated Eigenvalues and Their Associated Eigenvectors. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>1996</b> , 118, 390-397	1.6	84
497	THE CONVERGENCE OF THE ITERATED IRS METHOD. <i>Journal of Sound and Vibration</i> , <b>1998</b> , 211, 123-132	3.9	83
496	Wind tunnel testing of the fish bone active camber morphing concept. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2014</b> , 25, 772-785	2.3	81
495	Morphing aircraft: The need for a new design philosophy. <i>Aerospace Science and Technology</i> , <b>2016</b> , 49, 154-166	4.9	80
494	Uncertainty identification by the maximum likelihood method. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 288, 587-599	3.9	80
493	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2016</b> , 52, 1576-1586	3.7	79
492	EXPERIMENTAL IDENTIFICATION OF EXCITATION AND SUPPORT PARAMETERS OF A FLEXIBLE ROTOR-BEARINGS-FOUNDATION SYSTEM FROM A SINGLE RUN-DOWN. <i>Journal of Sound and Vibration</i> , <b>2000</b> , 232, 963-992	3.9	79
491	Fault Diagnosis of Rotating Machinery. <i>The Shock and Vibration Digest</i> , <b>1998</b> , 30, 4-13		79
490	Estimating unbalance and misalignment of a flexible rotating machine from a single run-down. <i>Journal of Sound and Vibration</i> , <b>2004</b> , 272, 967-989	3.9	78
489	Dynamic characteristics of damped viscoelastic nonlocal EulerBernoulli beams. <i>European Journal of Mechanics, A/Solids</i> , <b>2013</b> , 42, 125-136	3.7	77
488	Sensor shape design for piezoelectric cantilever beams to harvest vibration energy. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 014901	2.5	76
487	Quantitative experimental measurements of matrix cracking and delamination using acoustic emission. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2010</b> , 41, 612-623	8.4	76
486	Derivatives of Complex Eigenvectors Using Nelson's Method. <i>AIAA Journal</i> , <b>2000</b> , 38, 2355-2357	2.1	76
485	Aerodynamic optimisation of a camber morphing aerofoil. <i>Aerospace Science and Technology</i> , <b>2015</b> , 43, 245-255	4.9	75
484	Analysis of energy harvesters for highway bridges. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2011</b> , 22, 1929-1938	2.3	74
483	Model-based identification of rotating machines. <i>Mechanical Systems and Signal Processing</i> , <b>2009</b> , 23, 1884-1893	7.8	74
482	Optimization of Long Anisotropic Laminated Fiber Composite Panels with T-Shaped Stiffeners. <i>AIAA Journal</i> , <b>2007</b> , 45, 2497-2509	2.1	74
481	Robust Saturated Finite Time Output Feedback Attitude Stabilization for Rigid Spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2014</b> , 37, 1914-1929	2.1	71

480	GEOMETRIC PARAMETERS FOR FINITE ELEMENT MODEL UPDATING OF JOINTS AND CONSTRAINTS. <i>Mechanical Systems and Signal Processing</i> , <b>1996</b> , 10, 171-182	7.8	71
479	THE INFLUENCE OF TORSION ON ROTOR/STATOR CONTACT IN ROTATING MACHINERY. <i>Journal of Sound and Vibration</i> , <b>1999</b> , 225, 767-778	3.9	70
478	Regularization in model updating. <i>International Journal for Numerical Methods in Engineering</i> , <b>2008</b> , 75, 440-478	2.4	69
477	Random matrix eigenvalue problems in structural dynamics. <i>International Journal for Numerical Methods in Engineering</i> , <b>2007</b> , 69, 562-591	2.4	68
476	SELECTION AND UPDATING OF PARAMETERS FOR AN ALUMINIUM SPACE-FRAME MODEL. <i>Mechanical Systems and Signal Processing</i> , <b>2000</b> , 14, 923-944	7.8	68
475	Chaotic vibration of a quarter-car model excited by the road surface profile. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2008</b> , 13, 1373-1383	3.7	67
474	Non-linear energy harvesting from coupled impacting beams. <i>International Journal of Mechanical Sciences</i> , <b>2015</b> , 96-97, 101-109	5.5	65
473	Finite element models of spot welds in structural dynamics: review and updating. <i>Computers and Structures</i> , <b>2005</b> , 83, 648-661	4.5	65
472	Parameter subset selection in damage location. <i>Inverse Problems in Science and Engineering</i> , <b>1997</b> , 5, 189-215		63
471	Sensor Validation for Smart Structures. <i>Journal of Intelligent Material Systems and Structures</i> , <b>1999</b> , 10, 973-982	2.3	63
470	Transverse vibration of single-layer graphene sheets. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 2054013		61
469	Piezoelectric energy harvesting with parametric uncertainty. <i>Smart Materials and Structures</i> , <b>2010</b> , 19, 105010	3.4	61
468	Detecting cracked rotors using auxiliary harmonic excitation. <i>Journal of Sound and Vibration</i> , <b>2011</b> , 330, 1365-1381	3.9	61
467	A piezoelectric device for impact energy harvesting. <i>Smart Materials and Structures</i> , <b>2011</b> , 20, 105008	3.4	60
466	Modelling and configuration control of wing-shaped bi-stable piezoelectric composites under aerodynamic loads. <i>Aerospace Science and Technology</i> , <b>2013</b> , 29, 453-461	4.9	59
465	Experimental and analytical parametric study of single-crystal unimorph beams for vibration energy harvesting. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2011</b> , 58, 1508-20	3.2	58
464	Aircraft Control via Variable Cant-Angle Winglets. <i>Journal of Aircraft</i> , <b>2008</b> , 45, 414-423	1.6	58
463	A Galerkin method for distributed systems with non-local damping. <i>International Journal of Solids and Structures</i> , <b>2006</b> , 43, 3381-3400	3.1	58

462	Eigenvalue bounds of structures with uncertain-but-bounded parameters. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 282, 297-312	3.9	58
461	Static and free vibration analysis of functionally graded carbon nanotube reinforced skew plates. <i>Composite Structures</i> , <b>2016</b> , 140, 473-490	5.3	57
460	Robustness of optimal sensor placement under parametric uncertainty. <i>Mechanical Systems and Signal Processing</i> , <b>2013</b> , 41, 268-287	7.8	57
459	Linear eigenvalue analysis of the disc-brake squeal problem. <i>International Journal for Numerical Methods in Engineering</i> , <b>2004</b> , 61, 1546-1563	2.4	57
458	Stochastic model updating: Part 2—application to a set of physical structures. <i>Mechanical Systems and Signal Processing</i> , <b>2006</b> , 20, 2171-2185	7.8	55
457	Model selection in finite element model updating using the Bayesian evidence statistic. <i>Mechanical Systems and Signal Processing</i> , <b>2011</b> , 25, 2399-2412	7.8	53
456	Dynamics of a Gear System with Faults in Meshing Stiffness. <i>Nonlinear Dynamics</i> , <b>2005</b> , 41, 415-421	5	53
455	Dynamic control for morphing of bi-stable composites. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2013</b> , 24, 266-273	2.3	51
454	Modelling and updating of large surface-to-surface joints in the AWE-MACE structure. <i>Mechanical Systems and Signal Processing</i> , <b>2006</b> , 20, 868-880	7.8	51
453	IDENTIFICATION OF SPEED-DEPENDENT BEARING PARAMETERS. <i>Journal of Sound and Vibration</i> , <b>2002</b> , 254, 967-986	3.9	50
452	Vibration analysis of beams with non-local foundations using the finite element method. <i>International Journal for Numerical Methods in Engineering</i> , <b>2007</b> , 71, 1365-1386	2.4	49
451	THE EVALUATION OF ROTOR IMBALANCE IN FLEXIBLY MOUNTED MACHINES. <i>Journal of Sound and Vibration</i> , <b>1997</b> , 208, 671-683	3.9	47
450	WORKING GROUP 1: GENERATION OF VALIDATED STRUCTURAL DYNAMIC MODELS—RESULTS OF A BENCHMARK STUDY UTILISING THE GARTEUR SM-AG19 TEST-BED. <i>Mechanical Systems and Signal Processing</i> , <b>2003</b> , 17, 9-20	7.8	47
449	Finite element model updating of a small scale bridge. <i>Journal of Sound and Vibration</i> , <b>2003</b> , 268, 993-1012	3.9	47
448	Combining Subset Selection and Parameter Constraints in Model Updating. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>1998</b> , 120, 854-859	1.6	47
447	A nonlocal finite element model for buckling and vibration of functionally graded nanobeams. <i>Composites Part B: Engineering</i> , <b>2019</b> , 166, 233-246	10	47
446	Excess baggage for birds: inappropriate placement of tags on gannets changes flight patterns. <i>PLoS ONE</i> , <b>2014</b> , 9, e92657	3.7	46
445	The adjustment of structural parameters using a minimum variance estimator. <i>Mechanical Systems and Signal Processing</i> , <b>1989</b> , 3, 143-155	7.8	46

444	Homogenization of porous piezoelectric materials. <i>International Journal of Solids and Structures</i> , <b>2017</b> , 113-114, 218-229	3.1	45
443	Morphing wing flexible skins with curvilinear fiber composites. <i>Composite Structures</i> , <b>2013</b> , 99, 69-75	5.3	45
442	Distributed parameter model updating using the Karhunen-Loève expansion. <i>Mechanical Systems and Signal Processing</i> , <b>2010</b> , 24, 326-339	7.8	45
441	Fokker-Planck equation analysis of randomly excited nonlinear energy harvester. <i>Journal of Sound and Vibration</i> , <b>2014</b> , 333, 2040-2053	3.9	44
440	CO-ORDINATE TRANSFORMATIONS FOR SECOND ORDER SYSTEMS. PART I: GENERAL TRANSFORMATIONS. <i>Journal of Sound and Vibration</i> , <b>2002</b> , 258, 885-909	3.9	44
439	Energy harvesting by two magnetopiezoelastic oscillators with mistuning. <i>Theoretical and Applied Mechanics Letters</i> , <b>2012</b> , 2, 043009	1.8	43
438	Using linear model reduction to investigate the dynamics of structures with local non-linearities. <i>Mechanical Systems and Signal Processing</i> , <b>1995</b> , 9, 317-328	7.8	43
437	Dynamic control of a bistable wing under aerodynamic loading. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 025020	3.4	42
436	AN INVERSE METHOD FOR THE ASSIGNMENT OF VIBRATION NODES. <i>Mechanical Systems and Signal Processing</i> , <b>2001</b> , 15, 87-100	7.8	42
435	Periodic responses of a structure with 3:1 internal resonance. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 81, 19-34	7.8	42
434	Spacecraft Anti-Unwinding Attitude Control with Actuator Nonlinearities and Velocity Limit. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2015</b> , 38, 2042-2050	2.1	41
433	Using nonlinear springs to reduce the whirling of a rotating shaft. <i>Mechanical Systems and Signal Processing</i> , <b>2009</b> , 23, 2228-2235	7.8	41
432	Experimental Investigation into the Control and Load Alleviation Capabilities of Articulated Winglets. <i>International Journal of Aerospace Engineering</i> , <b>2012</b> , 2012, 1-15	0.9	41
431	Lay-Up Optimization of Composite Stiffened Panels Using Linear Approximations in Lamination Space. <i>AIAA Journal</i> , <b>2008</b> , 46, 2387-2391	2.1	41
430	Non-local finite element analysis of damped beams. <i>International Journal of Solids and Structures</i> , <b>2007</b> , 44, 7564-7576	3.1	41
429	Torsional vibration of size-dependent viscoelastic rods using nonlocal strain and velocity gradient theory. <i>Composite Structures</i> , <b>2018</b> , 186, 274-292	5.3	41
428	Equivalent models of composite corrugated cores with elastomeric coatings for morphing structures. <i>Composite Structures</i> , <b>2013</b> , 104, 281-292	5.3	40
427	Design of MEMS piezoelectric harvesters with electrostatically adjustable resonance frequency. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 81, 360-374	7.8	40

426	Experimental Investigation of Bistable Winglets to Enhance Aircraft Wing Lift Takeoff Capability. <i>Journal of Aircraft</i> , <b>2009</b> , 46, 647-655	1.6	39
425	THE IDENTIFICATION OF THE UNBALANCE AND THE FOUNDATION MODEL OF A FLEXIBLE ROTATING MACHINE FROM A SINGLE RUN-DOWN. <i>Mechanical Systems and Signal Processing</i> , <b>2002</b> , 16, 255-271	7.8	39
424	Calculation of second and higher order eigenvector derivatives. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1995</b> , 18, 919-921	2.1	39
423	Polynomial Chaos Expansion and Steady-State Response of a Class of Random Dynamical Systems. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2015</b> , 141, 04014145	2.4	38
422	Defect Diagnosis for Rolling Element Bearings Using Acoustic Emission. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2009</b> , 131,	1.6	38
421	Parametric resonances in an annular disc, with a rotating system of distributed mass and elasticity; and the effects of friction and damping. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>1997</b> , 453, 1-19	2.4	38
420	Vibration in gear systems. <i>Chaos, Solitons and Fractals</i> , <b>2003</b> , 16, 795-800	9.3	38
419	Finite element model updating using the shadow hybrid Monte Carlo technique. <i>Mechanical Systems and Signal Processing</i> , <b>2015</b> , 52-53, 115-132	7.8	37
418	Polynomial chaos expansion with random and fuzzy variables. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 75, 41-56	7.8	37
417	Sensor validation for structural systems with multiplicative sensor faults. <i>Mechanical Systems and Signal Processing</i> , <b>2007</b> , 21, 270-279	7.8	37
416	BOUNDARY CONDITION IDENTIFICATION BY SOLVING CHARACTERISTIC EQUATIONS. <i>Journal of Sound and Vibration</i> , <b>2001</b> , 247, 755-763	3.9	37
415	Active fault-tolerant attitude control for flexible spacecraft with loss of actuator effectiveness. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2013</b> , 27, 925-943	2.8	36
414	The Zigzag wingbox for a span morphing wing. <i>Aerospace Science and Technology</i> , <b>2013</b> , 28, 364-375	4.9	36
413	Automatic two-plane balancing for rigid rotors. <i>International Journal of Non-Linear Mechanics</i> , <b>2008</b> , 43, 527-541	2.8	36
412	ON THE DESIGN OF MODAL ACTUATORS AND SENSORS. <i>Journal of Sound and Vibration</i> , <b>2001</b> , 241, 361-372	3.7	36
411	Polynomial chaos expansion in structural dynamics: Accelerating the convergence of the first two statistical moment sequences. <i>Journal of Sound and Vibration</i> , <b>2015</b> , 356, 144-154	3.9	35
410	Finite-Time Coordinated Attitude Control for Spacecraft Formation Flying Under Input Saturation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2015</b> , 137,	1.6	35
409	On wave propagation in two-dimensional functionally graded porous rotating nano-beams using a general nonlocal higher-order beam model. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 80, 169-190	4.5	35



408	Metamodel-based approach for stochastic free vibration analysis of functionally graded carbon nanotube reinforced plates. <i>Composite Structures</i> , <b>2016</b> , 152, 183-198	5.3	35
407	Optimisation of composite corrugated skins for buckling in morphing aircraft. <i>Composite Structures</i> , <b>2015</b> , 119, 227-237	5.3	34
406	Experimental case studies for uncertainty quantification in structural dynamics. <i>Probabilistic Engineering Mechanics</i> , <b>2009</b> , 24, 473-492	2.6	34
405	Detection of severe sliding and pitting fatigue wear regimes through the use of broadband acoustic emission. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2005</b> , 219, 85-98	1.4	34
404	Optimal design of variable fiber spacing composites for morphing aircraft skins. <i>Composite Structures</i> , <b>2012</b> , 94, 1626-1633	5.3	33
403	Minimization of the discretization error in mass and stiffness formulations by an inverse method. <i>International Journal for Numerical Methods in Engineering</i> , <b>1998</b> , 41, 371-387	2.4	33
402	Calculation of Eigensolution Derivatives for Nonviscously Damped Systems. <i>AIAA Journal</i> , <b>2006</b> , 44, 1799-1806	2.1	33
401	Dual-Quaternion-Based Fault-Tolerant Control for Spacecraft Tracking With Finite-Time Convergence. <i>IEEE Transactions on Control Systems Technology</i> , <b>2017</b> , 25, 1231-1242	4.8	32
400	MODEL UPDATING USING ROBUST ESTIMATION. <i>Mechanical Systems and Signal Processing</i> , <b>2002</b> , 16, 169-183	7.8	32
399	Fluid/Structure-Interaction Analysis of the Fish-Bone-Active-Camber Morphing Concept. <i>Journal of Aircraft</i> , <b>2015</b> , 52, 307-319	1.6	31
398	Chaotic response of a quarter car model forced by a road profile with a stochastic component. <i>Chaos, Solitons and Fractals</i> , <b>2009</b> , 39, 2448-2456	9.3	31
397	Preliminary Investigation of a Fishbone Active Camber Concept <b>2012</b> ,		31
396	Damage detection using generic elements: Part I. Model updating. <i>Computers and Structures</i> , <b>2003</b> , 81, 2273-2286	4.5	31
395	Updating model parameters from frequency domain data via reduced order models. <i>Mechanical Systems and Signal Processing</i> , <b>1990</b> , 4, 377-391	7.8	31
394	Damage detection using generic elements: Part II. Damage detection. <i>Computers and Structures</i> , <b>2003</b> , 81, 2287-2299	4.5	30
393	A MEASURE OF NON-PROPORTIONAL DAMPING. <i>Mechanical Systems and Signal Processing</i> , <b>2000</b> , 14, 125-137	7.8	30
392	Span morphing using the GNATSpar wing. <i>Aerospace Science and Technology</i> , <b>2016</b> , 53, 38-46	4.9	29
391	Vibration control of a rotor supported by journal bearings and an asymmetric high-static low-dynamic stiffness suspension. <i>Nonlinear Dynamics</i> , <b>2016</b> , 85, 525-545	5	29

390	Helicopter aeroelastic analysis with spatially uncertain rotor blade properties. <i>Aerospace Science and Technology</i> , <b>2012</b> , 16, 29-39	4.9	29
389	Variable stiffness biological and bio-inspired materials. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2013</b> , 24, 529-540	2.3	29
388	Passive load alleviation bi-stable morphing concept. <i>AIP Advances</i> , <b>2012</b> , 2, 032118	1.5	29
387	CO-ORDINATE TRANSFORMATIONS FOR SECOND ORDER SYSTEMS. PART II: ELEMENTARY STRUCTURE-PRESERVING TRANSFORMATIONS. <i>Journal of Sound and Vibration</i> , <b>2002</b> , 258, 911-930	3.9	29
386	Model updating strategy for structures with localised nonlinearities using frequency response measurements. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 100, 940-961	7.8	28
385	Stochastic structural dynamic analysis using Bayesian emulators. <i>Computers and Structures</i> , <b>2013</b> , 120, 24-32	4.5	28
384	ENERGY HARVESTING IN PIEZOELASTIC SYSTEMS DRIVEN BY RANDOM EXCITATIONS. <i>International Journal of Structural Stability and Dynamics</i> , <b>2013</b> , 13, 1340006	1.9	28
383	The application of thermally induced multistable composites to morphing aircraft structures <b>2008</b> ,		28
382	The Application of Variable Cant Angle Winglets for Morphing Aircraft Control <b>2006</b> ,		28
381	Analysis of the transient response of an automatic dynamic balancer for eccentric rotors. <i>International Journal of Mechanical Sciences</i> , <b>2006</b> , 48, 274-293	5.5	28
380	The Accuracy of Jump Frequencies in Series Solutions of the Response of a Duffing Oscillator. <i>Journal of Sound and Vibration</i> , <b>1994</b> , 169, 261-269	3.9	28
379	Aeroelastic model and analysis of an active camber morphing wing. <i>Aerospace Science and Technology</i> , <b>2021</b> , 111, 106534	4.9	28
378	A hybrid spectral and metamodeling approach for the stochastic finite element analysis of structural dynamic systems. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2014</b> , 270, 201-219	5.7	27
377	The mechanical behavior of composite corrugated core coated with elastomer for morphing skins. <i>Journal of Composite Materials</i> , <b>2014</b> , 48, 1623-1636	2.7	27
376	Piezoceramic composite actuators for a solid-state variable-camber wing. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2014</b> , 25, 806-817	2.3	27
375	Multi-Objective Optimization for the Multiphase Design of Active Polymorphing Wings. <i>Journal of Aircraft</i> , <b>2012</b> , 49, 1153-1160	1.6	27
374	Active Damping of Thermally Induced Vibrations. <i>Journal of Intelligent Material Systems and Structures</i> , <b>1997</b> , 8, 678-685	2.3	27
373	Reduced-Order Models of Structures with Viscoelastic Components. <i>AIAA Journal</i> , <b>1999</b> , 37, 1318-1325	2.1	27

372	Multiple solutions and corresponding power output of a nonlinear bistable piezoelectric energy harvester. <i>European Physical Journal B</i> , <b>2016</b> , 89, 1	1.2	27
371	Dynamic behaviour of three-dimensional planetary geared rotor systems. <i>Mechanism and Machine Theory</i> , <b>2019</b> , 134, 39-56	4	27
370	Multi-scale finite element model for a new material inspired by the mechanics and structure of wood cell-walls. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2012</b> , 60, 1296-1309	5	26
369	Investigation of a multi-ball, automatic dynamic balancing mechanism for eccentric rotors. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2008</b> , 366, 705-28	3	26
368	Maximizing the natural frequency of a beam with an intermediate elastic support. <i>Journal of Sound and Vibration</i> , <b>2006</b> , 291, 1229-1238	3.9	26
367	Vibration of viscoelastic axially graded beams with simultaneous axial and spinning motions under an axial load. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 90, 131-150	4.5	26
366	The effect of corrugated skins on aerodynamic performance. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2014</b> , 25, 786-794	2.3	25
365	Fault tolerant control with H <sub>∞</sub> performance for attitude tracking of flexible spacecraft. <i>IET Control Theory and Applications</i> , <b>2012</b> , 6, 1388-1399	2.5	25
364	High dimensional model representation method for fuzzy structural dynamics. <i>Journal of Sound and Vibration</i> , <b>2011</b> , 330, 1516-1529	3.9	25
363	Initial sizing optimisation of anisotropic composite panels with T-shaped stiffeners. <i>Thin-Walled Structures</i> , <b>2008</b> , 46, 399-412	4.7	25
362	Sensor Validation for Structural Systems with Additive Sensor Faults. <i>Structural Health Monitoring</i> , <b>2004</b> , 3, 265-275	4.4	25
361	Guidelines for the implementation of the CWELD and ACM2 spot weld models in structural dynamics. <i>Finite Elements in Analysis and Design</i> , <b>2004</b> , 41, 193-210	2.2	25
360	Inverse Methods in Structural Health Monitoring. <i>Key Engineering Materials</i> , <b>2001</b> , 204-205, 201-210	0.4	25
359	The effect of noise on the response of a vertical cantilever beam energy harvester. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , <b>2015</b> , 95, 433-443	1	24
358	The design of a coated composite corrugated skin for the camber morphing airfoil. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2015</b> , 26, 1592-1608	2.3	24
357	Broadband Vibration Energy Harvesting from a Vertical Cantilever Piezocomposite Beam with Tip Mass. <i>International Journal of Structural Stability and Dynamics</i> , <b>2015</b> , 15, 1450038	1.9	24
356	The time response of structures with bounded parameters and interval initial conditions. <i>Journal of Sound and Vibration</i> , <b>2010</b> , 329, 353-365	3.9	24
355	On the Realisation of GHM Models in Viscoelasticity. <i>Journal of Intelligent Material Systems and Structures</i> , <b>1997</b> , 8, 986-993	2.3	24

354	<b>2007,</b>		24
353	An integrated conceptual design study using span morphing technology. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2014</b> , 25, 989-1008	2.3	23
352	A second-moment approach for direct probabilistic model updating in structural dynamics. <i>Mechanical Systems and Signal Processing</i> , <b>2012</b> , 29, 262-283	7.8	23
351	Experimental investigation of a single-plane automatic balancing mechanism for a rigid rotor. <i>Journal of Sound and Vibration</i> , <b>2011</b> , 330, 385-403	3.9	23
350	Efficient robust design via Monte Carlo sample reweighting. <i>International Journal for Numerical Methods in Engineering</i> , <b>2007</b> , 69, 2279-2301	2.4	23
349	Some observations on uncertainty propagation through a simple nonlinear system. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 288, 601-621	3.9	23
348	THE APPLICATION OF THE IRS AND BALANCED REALIZATION METHODS TO OBTAIN REDUCED MODELS OF STRUCTURES WITH LOCAL NON-LINEARITIES. <i>Journal of Sound and Vibration</i> , <b>1996</b> , 196, 453-468	3.9	23
347	The vibration of two-dimensional imperfect functionally graded (2D-FG) porous rotating nanobeams based on general nonlocal theory. <i>Mechanical Systems and Signal Processing</i> , <b>2020</b> , 144, 106854	7.8	22
346	Regular and chaotic vibration in a piezoelectric energy harvester. <i>Meccanica</i> , <b>2016</b> , 51, 1017-1025	2.1	22
345	The Adaptive Aspect Ratio morphing wing: Design concept and low fidelity skin optimization. <i>Aerospace Science and Technology</i> , <b>2015</b> , 42, 209-217	4.9	22
344	Non-linear dynamic analysis of tensegrity structures using a co-rotational method. <i>International Journal of Non-Linear Mechanics</i> , <b>2015</b> , 69, 55-65	2.8	22
343	The actuation characterization of cantilevered unimorph beams with single crystal piezoelectric materials. <i>Smart Materials and Structures</i> , <b>2011</b> , 20, 055024	3.4	22
342	The use of model updating for reliable finite element modelling and fault diagnosis of structural components used in nuclear plants. <i>Nuclear Engineering and Design</i> , <b>2003</b> , 223, 11-23	1.8	22
341	Hierarchical modeling and optimization of camber morphing airfoil. <i>Aerospace Science and Technology</i> , <b>2015</b> , 42, 31-38	4.9	21
340	Finite-time fault tolerant attitude control for over-activated spacecraft subject to actuator misalignment and faults. <i>IET Control Theory and Applications</i> , <b>2013</b> , 7, 2007-2020	2.5	21
339	Designing distributed modal sensors for plate structures using finite element analysis. <i>Mechanical Systems and Signal Processing</i> , <b>2006</b> , 20, 2290-2304	7.8	21
338	Computational hygro-thermal vibration and buckling analysis of functionally graded sandwich microbeams. <i>Composites Part B: Engineering</i> , <b>2019</b> , 165, 785-797	10	20
337	Ultra-efficient wound composite truss structures. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 90, 111-124	8.4	20

336	Efficient acoustic energy harvesting by deploying magnetic restoring force. <i>Smart Materials and Structures</i> , <b>2019</b> , 28, 105037	3.4	20
335	The effect of energy concentration of earthquake ground motions on the nonlinear response of RC structures. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2009</b> , 29, 292-299	3.5	20
334	Optimization of anisotropic composite panels with T-shaped stiffeners including transverse shear effects and out-of-plane loading. <i>Structural and Multidisciplinary Optimization</i> , <b>2008</b> , 37, 165-184	3.6	20
333	Distributed Modal Sensors for Rectangular Plate Structures. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2007</b> , 18, 939-948	2.3	20
332	Thermal vibration analysis of cracked nanobeams embedded in an elastic matrix using finite element analysis. <i>Composite Structures</i> , <b>2019</b> , 212, 118-128	5.3	20
331	Recent developments in the aeroelasticity of morphing aircraft. <i>Progress in Aerospace Sciences</i> , <b>2021</b> , 120, 100682	8.8	20
330	Advanced nonlinear dynamic modelling of bi-stable composite plates. <i>Composite Structures</i> , <b>2018</b> , 201, 582-596	5.3	20
329	Lightweight Shape-Adaptable Airfoils: A New Challenge for an Old Dream	89-135	19
328	Pulsive feedback control of a quarter car model forced by a road profile. <i>Chaos, Solitons and Fractals</i> , <b>2007</b> , 33, 1672-1676	9.3	19
327	Static and dynamic response of CNT nanobeam using nonlocal strain and velocity gradient theory. <i>Applied Mathematical Modelling</i> , <b>2018</b> , 62, 207-222	4.5	19
326	Implementation of a Continuous-Inextensible-Surface Piezocomposite Airfoil. <i>Journal of Aircraft</i> , <b>2013</b> , 50, 508-518	1.6	18
325	Partial Derivatives of Repeated Eigenvalues and Their Eigenvectors. <i>AIAA Journal</i> , <b>1997</b> , 35, 1363-1368	2.1	18
324	Simulation of the dynamic response of a cracked beam. <i>Computers and Structures</i> , <b>2002</b> , 80, 1473-1476	4.5	18
323	Estimating turbogenerator foundation parameters: model selection and regularization. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2000</b> , 456, 1583-1607	2.4	18
322	Steady-State Analysis of Underwater Cables. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , <b>1995</b> , 121, 98-104	1.7	18
321	Updating model parameters by adding an imagined stiffness to the structure. <i>Mechanical Systems and Signal Processing</i> , <b>1993</b> , 7, 161-172	7.8	18
320	Clustering of Sensor Locations Using the Effective Independence Method. <i>AIAA Journal</i> , <b>2015</b> , 53, 1388-1391	13.91	17
319	A computational multi-scale approach for the stochastic mechanical response of foam-filled honeycomb cores. <i>Composite Structures</i> , <b>2012</b> , 94, 1861-1870	5.3	17

3 <sup>18</sup>	Experimental Investigation into Articulated Winglet Effects on Flying Wing Surface Pressure Aerodynamics. <i>Journal of Aircraft</i> , <b>2010</b> , 47, 1811-1815	1.6	17
3 <sup>17</sup>	Determinate structures for wing camber control. <i>Smart Materials and Structures</i> , <b>2009</b> , 18, 035014	3.4	17
3 <sup>16</sup>	Progress Towards a Forward Model of the Complete Acoustic Emission Process. <i>Advanced Materials Research</i> , <b>2006</b> , 13-14, 69-76	0.5	17
3 <sup>15</sup>	Modal Analysis of Nonviscously Damped Beams. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2007</b> , 74, 1026-1030	2.7	17
3 <sup>14</sup>	Structural Health Monitoring and Damage Assessment Using Frequency Response Correlation Criteria. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2007</b> , 133, 981-993	2.4	17
3 <sup>13</sup>	Acoustic Emission in Wide Composite Specimens. <i>Advanced Materials Research</i> , <b>2006</b> , 13-14, 325-332	0.5	17
3 <sup>12</sup>	Low-rank damping modifications and defective systems. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 279, 757-774	3.4	17
3 <sup>11</sup>	Polynomial chaos-based extended Padé expansion in structural dynamics. <i>International Journal for Numerical Methods in Engineering</i> , <b>2017</b> , 111, 1170-1191	2.4	16
3 <sup>10</sup>	Stochastic modelling and updating of a joint contact interface. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 129, 645-658	7.8	16
3 <sup>09</sup>	Stochastic finite elements of discretely parameterized random systems on domains with boundary uncertainty. <i>International Journal for Numerical Methods in Engineering</i> , <b>2014</b> , 100, 183-221	2.4	16
3 <sup>08</sup>	Relieving the effect of static load errors in nonlinear vibration isolation mounts through stiffness asymmetries. <i>Journal of Sound and Vibration</i> , <b>2015</b> , 339, 84-98	3.9	16
3 <sup>07</sup>	Two-plane automatic balancing: A symmetry breaking analysis. <i>International Journal of Non-Linear Mechanics</i> , <b>2011</b> , 46, 1139-1154	2.8	16
3 <sup>06</sup>	THE RELATIONSHIP BETWEEN THE REAL AND IMAGINARY PARTS OF COMPLEX MODES. <i>Journal of Sound and Vibration</i> , <b>1998</b> , 212, 75-83	3.9	16
3 <sup>05</sup>	The minimum support stiffness required to raise the fundamental natural frequency of plate structures. <i>Journal of Sound and Vibration</i> , <b>2007</b> , 301, 665-677	3.9	16
3 <sup>04</sup>	RESULTS OBTAINED BY MINIMISING NATURAL-FREQUENCY ERRORS AND USING PHYSICAL REASONING. <i>Mechanical Systems and Signal Processing</i> , <b>2003</b> , 17, 39-46	7.8	16
3 <sup>03</sup>	Asynchronous partial contact motion due to internal resonance in multiple degree-of-freedom rotordynamics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2016</b> , 472, 20160303	2.4	16
3 <sup>02</sup>	Conceptual study of a morphing winglet based on unsymmetrical stiffness. <i>Aerospace Science and Technology</i> , <b>2016</b> , 58, 546-558	4.9	16
3 <sup>01</sup>	Finite element model updating of a semi-rigid moment resisting structure. <i>Structural Control and Health Monitoring</i> , <b>2011</b> , 18, 149-168	4.5	15

300	Time domain analysis of a viscoelastic rotor using internal variable models. <i>International Journal of Mechanical Sciences</i> , <b>2010</b> , 52, 1319-1324	5.5	15
299	Partial and Segmented Modal Sensors for Beam Structures. <i>JVC/Journal of Vibration and Control</i> , <b>1999</b> , 5, 619-637	2	15
298	Candidate Reduced Order Models for Structural Parameter Estimation. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>1990</b> , 112, 93-97	1.6	15
297	Morphing elastically lofted transition for active camber control surfaces. <i>Aerospace Science and Technology</i> , <b>2016</b> , 55, 439-448	4.9	15
296	Design and analysis of vibration energy harvesters based on peak response statistics. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 065009	3.4	15
295	Multi-objective geometry optimization of the Fish Bone Active Camber morphing airfoil. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2016</b> , 27, 808-819	2.3	14
294	Advanced Kinematic Tailoring for Morphing Aircraft Actuation. <i>AIAA Journal</i> , <b>2014</b> , 52, 788-798	2.1	14
293	Asymptotic frequencies of various damped nonlocal beams and plates. <i>Mechanics Research Communications</i> , <b>2014</b> , 62, 94-101	2.2	14
292	Finite element model updating using Hamiltonian Monte Carlo techniques. <i>Inverse Problems in Science and Engineering</i> , <b>2017</b> , 25, 1042-1070	1.3	14
291	Performance Comparison between Optimised Camber and Span for a Morphing Wing. <i>Aerospace</i> , <b>2015</b> , 2, 524-554	2.5	14
290	A conceptual wing-box weight estimation model for transport aircraft. <i>Aeronautical Journal</i> , <b>2013</b> , 117, 533-551	0.9	14
289	Hyperelastic finite element model for single wall carbon nanotubes in tension. <i>Computational Materials Science</i> , <b>2011</b> , 50, 1083-1087	3.2	14
288	Performing co-ordinated turns with articulated wing-tips as multi-axis control effectors. <i>Aeronautical Journal</i> , <b>2010</b> , 114, 35-47	0.9	14
287	Technology Integration for Active Poly-Morphing Winglets Development <b>2008</b> ,		14
286	Nonlinear Response of an Oscillator with a Magneto-Rheological Damper Subjected to External Forcing. <i>Applied Mechanics and Materials</i> , <b>2006</b> , 5-6, 277-284	0.3	14
285	The Identification of the Unbalance of a Flexible Rotating Machine From a Single Rundown. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2004</b> , 126, 416-421	1.7	14
284	General isospectral flows for linear dynamic systems. <i>Linear Algebra and Its Applications</i> , <b>2004</b> , 385, 335-368	1.5	14
283	Extracting Second-Order Systems from State-Space Representations. <i>AIAA Journal</i> , <b>1999</b> , 37, 132-135	2.1	14

282	Evaluation of optimal sensor placement algorithms for the Structural Health Monitoring of architectural heritage. Application to the Monastery of San Jerónimo de Buenavista (Seville, Spain). <i>Engineering Structures</i> , <b>2020</b> , 202, 109843	4.7	14
281	Frictional effects on the nonlinear dynamics of an overhung rotor. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 78, 104875	3.7	13
280	Adaptive tuned piezoelectric MEMS vibration energy harvester using an electrostatic device. <i>European Physical Journal: Special Topics</i> , <b>2015</b> , 224, 2703-2717	2.3	13
279	Modelling the effect of heel to toe roll-over contact on the walking dynamics of passive biped robots. <i>Applied Mathematical Modelling</i> , <b>2013</b> , 37, 7352-7373	4.5	13
278	Fuzzy finite element model updating of the DLR AIRMOD test structure. <i>Applied Mathematical Modelling</i> , <b>2017</b> , 52, 512-526	4.5	13
277	Structural health monitoring using shaped sensors. <i>Mechanical Systems and Signal Processing</i> , <b>2010</b> , 24, 623-635	7.8	13
276	Closed-Form Solutions for Buckling of Long Anisotropic Plates with Various Boundary Conditions under Axial Compression. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2010</b> , 136, 1105-1114	2.4	13
275	Robust Fault Tolerant Control for Spacecraft Attitude Stabilization Under Actuator Faults and Bounded Disturbance. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2011</b> , 133,	1.6	13
274	Span Morphing: A Conceptual Design Study <b>2012</b> ,		13
273	Use of geometric algebra: compound matrices and the determinant of the sum of two matrices. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2003</b> , 459, 273-285	2.4	13
272	THE LOCATION OF SPRING SUPPORTS FROM MEASURED VIBRATION DATA. <i>Journal of Sound and Vibration</i> , <b>2001</b> , 244, 137-153	3.9	13
271	Physical Realization of Generic-Element Parameters in Model Updating. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2002</b> , 124, 628-633	1.6	13
270	Sampling Techniques in Bayesian Finite Element Model Updating. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2012</b> , 75-83	0.3	13
269	Multi-objective optimization for the geometry of trapezoidal corrugated morphing skins. <i>Structural and Multidisciplinary Optimization</i> , <b>2017</b> , 55, 331-345	3.6	12
268	Finite Element Model Updating Using an Evolutionary Markov Chain Monte Carlo Algorithm. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2015</b> , 245-253	0.3	12
267	Aeroelasticity of compliant span morphing wings. <i>Smart Materials and Structures</i> , <b>2018</b> , 27, 105052	3.4	12
266	Optimal sensor placement in timber structures by means of a multi-scale approach with material uncertainty. <i>Structural Control and Health Monitoring</i> , <b>2014</b> , 21, 1437-1452	4.5	12
265	A general super element for a curved beam. <i>International Journal of Solids and Structures</i> , <b>2014</b> , 51, 2931-2939	3.9	12



264	Ultrastructural mechanisms of deformation and failure in wood under tension. <i>International Journal of Solids and Structures</i> , <b>2013</b> , 50, 2050-2060	3.1	12
263	Energy Harvesting in a Nonlinear Cantilever Piezoelectric Beam System Excited by Random Vertical Vibrations. <i>International Journal of Structural Stability and Dynamics</i> , <b>2014</b> , 14, 1440018	1.9	12
262	The effect of a movable mass on the aeroelastic stability of composite hingeless rotor blades in hover. <i>Journal of Fluids and Structures</i> , <b>2019</b> , 87, 124-136	3.1	11
261	Effect of gravity-induced asymmetry on the nonlinear vibration of an overhung rotor. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2018</b> , 62, 78-89	3.7	11
260	Dynamic modelling and actuation of the adaptive torsion wing. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2013</b> , 24, 2045-2057	2.3	11
259	Theoretical and Experimental Analysis of Hysteresis in Piezocomposite Airfoils Using Preisach Model. <i>Journal of Aircraft</i> , <b>2011</b> , 48, 1935-1947	1.6	11
258	Surface Actuated Variable-Camber and Variable-Twist Morphing Wings Using Piezocomposites <b>2011</b> ,		11
257	Quantitative structural health monitoring using acoustic emission <b>2006</b> ,		11
256	Simplified Modelling of Rotor Cracks. <i>Key Engineering Materials</i> , <b>2003</b> , 245-246, 223-232	0.4	11
255	Structural Health Monitoring and Damage Assessment Using Measured FRFs from Multiple Sensors, Part I: The Indicator of Correlation Criteria. <i>Key Engineering Materials</i> , <b>2003</b> , 245-246, 131-140	0.4	11
254	Calculating Derivatives of Repeated and Nonrepeated Eigenvalues Without Explicit Use of Eigenvectors. <i>AIAA Journal</i> , <b>2000</b> , 38, 1426-1436	2.1	11
253	A Relationship Between Defective Systems and Unit-Rank Modification of Classical Damping. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2000</b> , 122, 180-183	1.6	11
252	Aeroelastic stability analysis of aircraft wings with initial curvature. <i>Aerospace Science and Technology</i> , <b>2020</b> , 107, 106241	4.9	11
251	Normal form analysis of bouncing cycles in isotropic rotor stator contact problems. <i>International Journal of Mechanical Sciences</i> , <b>2019</b> , 155, 83-97	5.5	10
250	Span Morphing Using the Compliant Spar. <i>Journal of Aerospace Engineering</i> , <b>2015</b> , 28, 04014108	1.4	10
249	Minimising the effects of manufacturing uncertainties in MEMS Energy harvesters. <i>Energy</i> , <b>2018</b> , 149, 990-999	7.9	10
248	Quantification of Vibration Localization in Periodic Structures. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2016</b> , 138,	1.6	10
247	An extended harmonic balance method based on incremental nonlinear control parameters. <i>Mechanical Systems and Signal Processing</i> , <b>2017</b> , 85, 716-729	7.8	10

246	Structural Characterization of the Fish Bone Active Camber Morphing Airfoil <b>2014</b> ,		10
245	Nonlinear oscillations of an elastic inverted pendulum <b>2012</b> ,		10
244	Hyperelastic axial buckling of single wall carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2011</b> , 44, 525-529	3	10
243	A practical technique for quantifying the performance of acoustic emission systems on plate-like structures. <i>Ultrasonics</i> , <b>2009</b> , 49, 538-48	3.5	10
242	Damage Identification using Inverse Methods. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , <b>2008</b> , 13-66	0.6	10
241	Negative Stiffness and Negative Poisson's Ratio in Materials which Undergo a Phase Transformation	231-246	10
240	Estimating the static load on the fluid bearings of a flexible machine from run-down data. <i>Mechanical Systems and Signal Processing</i> , <b>2004</b> , 18, 1349-1368	7.8	10
239	Finite Element Analysis of Coupled Lateral and Torsional Vibrations of a Rotor With Multiple Cracks <b>2005</b> , 841		10
238	Estimating turbogenerator foundation parameters. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>1998</b> , 212, 653-665	1.3	10
237	Finite element model selection using Particle Swarm Optimization. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2011</b> , 41-52	0.3	10
236	Nonlocal elasticity in plates using novel trial functions. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 130, 221-233	5.5	9
235	Computational and Experimental Validation of the Active Morphing Wing. <i>Journal of Aircraft</i> , <b>2014</b> , 51, 925-937	1.6	9
234	Investigation on the extensibility of the wood cell-wall composite by an approach based on homogenisation and uncertainty analysis. <i>Composite Structures</i> , <b>2014</b> , 108, 212-222	5.3	9
233	Morphing Aircraft: An Improbable Dream? <b>2014</b> ,		9
232	Conceptual Modeling of an Adaptive Torsion Wing Structure <b>2011</b> ,		9
231	COMPUTING CRITICAL SPEEDS FOR ROTATING MACHINES WITH SPEED DEPENDENT BEARING PROPERTIES. <i>Journal of Sound and Vibration</i> , <b>1998</b> , 213, 139-158	3.9	9
230	Condition Monitoring of Rotor Using Active Magnetic Actuator <b>2008</b> ,		9
229	Modelling the Dynamic Response of a Morphing Wing with Active Winglets <b>2007</b> ,		9

228	Simultaneous tridiagonalization of two symmetric matrices. <i>International Journal for Numerical Methods in Engineering</i> , <b>2003</b> , 57, 1643-1660	2.4	9
227	A Method for Determining Model-Structure Errors and for Locating Damage in Vibrating Systems. <i>Meccanica</i> , <b>1999</b> , 34, 153-166	2.1	9
226	Finite Element Model Updating Using the Separable Shadow Hybrid Monte Carlo Technique. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2014</b> , 267-275	0.3	9
225	Measurement of multivalued response curves of a strongly nonlinear system by exploiting exciter dynamics. <i>Mechanical Systems and Signal Processing</i> , <b>2020</b> , 140, 106474	7.8	9
224	Gaussian process assisted stochastic dynamic analysis with applications to near-periodic structures. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 149, 107218	7.8	9
223	Aeroelastic Stability Analysis of Tailored Pretwisted Wings. <i>AIAA Journal</i> , <b>2019</b> , 57, 4458-4466	2.1	8
222	Probabilistic optimization of engineering system with prescribed target design in a reduced parameter space. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 337, 281-304	5.7	8
221	Localisation of local nonlinearities in structural dynamics using spatially incomplete measured data. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 99, 364-383	7.8	8
220	Damage detection using successive parameter subset selections and multiple modal residuals. <i>Mechanical Systems and Signal Processing</i> , <b>2014</b> , 45, 193-206	7.8	8
219	Energy harvesting using porous piezoelectric beam with impacts. <i>Procedia Engineering</i> , <b>2017</b> , 199, 3468-3473		8
218	Equivalent models of corrugated laminates for morphing skins <b>2011</b> ,		8
217	Implementation of a Continuous-Inextensible-Surface Piezocomposite Airfoil <b>2012</b> ,		8
216	Performance and control optimisations using the adaptive torsion wing. <i>Aeronautical Journal</i> , <b>2012</b> , 116, 1061-1077	0.9	8
215	ON POLEZERO PLACEMENT BY UNIT-RANK MODIFICATION. <i>Mechanical Systems and Signal Processing</i> , <b>2003</b> , 17, 611-633	7.8	8
214	Twist morphing of a composite rotor blade using a novel metamaterial. <i>Composite Structures</i> , <b>2020</b> , 254, 112855	5.3	8
213	Composite Blade Twist Modification by Using a Moving Mass and Stiffness Tailoring. <i>AIAA Journal</i> , <b>2019</b> , 57, 4218-4225	2.1	8
212	Bidirectional torsional negative stiffness mechanism for energy balancing systems. <i>Mechanism and Machine Theory</i> , <b>2019</b> , 131, 261-277	4	8
211	Prosthetic foot design optimisation based on roll-over shape and ground reaction force characteristics. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2017</b> , 231, 3093-3103	1.3	7

210	Drillstring-borehole interaction: backward whirl instabilities and axial loading. <i>Meccanica</i> , <b>2017</b> , 52, 2945-2957	2.0	7
209	The effect of preload and surface roughness quality on linear joint model parameters. <i>Journal of Sound and Vibration</i> , <b>2019</b> , 447, 186-204	3.9	7
208	Identification of weak nonlinearities in MDOF systems based on reconstructed constant response tests. <i>Archive of Applied Mechanics</i> , <b>2019</b> , 89, 2053-2074	2.2	7
207	A high-order FEM formulation for free and forced vibration analysis of a nonlocal nonlinear graded Timoshenko nanobeam based on the weak form quadrature element method. <i>Archive of Applied Mechanics</i> , <b>2020</b> , 90, 2133-2156	2.2	7
206	Development of a morphing wingtip based on compliant structures. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2018</b> , 29, 3293-3304	2.3	7
205	Efficient solution of the fuzzy eigenvalue problem in structural dynamics. <i>Engineering Computations</i> , <b>2014</b> , 31, 864-878	1.4	7
204	Dynamic isolation systems using tunable nonlinear stiffness beams. <i>European Physical Journal: Special Topics</i> , <b>2013</b> , 222, 1563-1573	2.3	7
203	Observer-Based Fault Diagnosis Incorporating Online Control Allocation for Spacecraft Attitude Stabilization under Actuator Failures. <i>Journal of the Astronautical Sciences</i> , <b>2013</b> , 60, 211-236	1.1	7
202	Fluid-Structure Interaction Analysis of the Fish Bone Active Camber Mechanism <b>2013</b> ,		7
201	Shaped Modal Sensors for Linear Stochastic Beams. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2009</b> , 20, 2269-2284	2.3	7
200	Adaptive Aeroelastic Structures		137-162 7
199	Online Detection of Subsurface Distress by Acoustic Emissions. <i>Key Engineering Materials</i> , <b>2003</b> , 245-246, 451-460	0.4	7
198	Efficient placement of rigid supports using finite element models. <i>Communications in Numerical Methods in Engineering</i> , <b>2005</b> , 22, 205-213		7
197	Sensor validation for smart structures <b>2000</b> , 4073, 150		7
196	Fuzzy Finite Element Model Updating Using Metaheuristic Optimization Algorithms. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2017</b> , 91-101	0.3	7
195	A shape memory alloy rod element based on the co-rotational formulation for nonlinear static analysis of tensegrity structures. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2017</b> , 28, 35-46	2.3	6
194	Simulating eddy current sensor outputs for blade tip timing. <i>Advances in Mechanical Engineering</i> , <b>2018</b> , 10, 168781401774802	1.2	6
193	A smart pipe energy harvester excited by fluid flow and base excitation. <i>Acta Mechanica</i> , <b>2018</b> , 229, 4431-4458	1.4	6

192	Effect of Symmetric & Asymmetric Span Morphing on Flight Dynamics <b>2014</b> ,		6
191	Energy harvesting from a non-linear standing beam-mass system: Two- versus one-mode approximations. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2017</b> , 28, 1010-1022	2.3	6
190	Hyperelastic tension of graphene. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 061901	3.4	6
189	Roll Control of a UAV Using an Adaptive Torsion Structure <b>2011</b> ,		6
188	Induced-Drag Compressibility Correction for Three-Dimensional Vortex-Lattice Methods. <i>Journal of Aircraft</i> , <b>2010</b> , 47, 1458-1460	1.6	6
187	Observation of time-frequency characteristics of the acoustic emission from defects in rolling element bearings. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , <b>2010</b> , 52, 412-418	1.3	6
186	Dynamic models of golf clubs. <i>Sports Engineering</i> , <b>1998</b> , 1, 41-50	1.4	6
185	Modelling Continuously Morphing Aircraft for Flight Control <b>2008</b> ,		6
184	Guided Wave Acoustic Emission from Fatigue Crack Growth in Aluminium Plate. <i>Advanced Materials Research</i> , <b>2006</b> , 13-14, 23-28	0.5	6
183	Estimating Rotor Unbalance and Misalignment from a Single Run-Down. <i>Materials Science Forum</i> , <b>2003</b> , 440-441, 229-236	0.4	6
182	Robust balancing for rotating machines. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2002</b> , 216, 1117-1130	1.3	6
181	APPLICATION OF THE VARIABLE PROJECTION METHOD FOR UPDATING MODELS OF MECHANICAL SYSTEMS. <i>Journal of Sound and Vibration</i> , <b>1999</b> , 225, 307-325	3.9	6
180	The application of setpoint gain scheduling to high-speed independent drives. <i>Control Engineering Practice</i> , <b>1995</b> , 3, 1581-1585	3.9	6
179	Comparing Numerical Data with Test Results. <i>Solid Mechanics and Its Applications</i> , <b>1995</b> , 56-77	0.4	6
178	A Differential Evolution Markov Chain Monte Carlo Algorithm for Bayesian Model Updating. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2019</b> , 115-125	0.3	6
177	A Hybrid Piezoelectric and Electrostatic Vibration Energy Harvester. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2016</b> , 189-195	0.3	6
176	Probability analysis of bistable composite laminates using the subset simulation method. <i>Composite Structures</i> , <b>2021</b> , 271, 114120	5.3	6
175	Bidirectional Spiral Pulley Negative Stiffness Mechanism for Passive Energy Balancing. <i>Journal of Mechanisms and Robotics</i> , <b>2019</b> , 11,	2.2	5

174	Comparison of Constrained Parameterisation Strategies for Aerodynamic Optimisation of Morphing Leading Edge Airfoil. <i>Aerospace</i> , <b>2019</b> , 6, 31	2.5	5
173	A Multi-Fidelity, Multi-Disciplinary Analysis and Optimization Framework for the Design of Morphing UAV Wing <b>2015</b> ,		5
172	Energy harvesting from the secondary resonances of a nonlinear piezoelectric beam under hard harmonic excitation. <i>Meccanica</i> , <b>2020</b> , 55, 1463-1479	2.1	5
171	Uncertainty propagation in dynamic sub-structuring by model reduction integrated domain decomposition. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 366, 113060	5.7	5
170	Compliant structures based on stiffness asymmetry. <i>Aeronautical Journal</i> , <b>2018</b> , 122, 442-461	0.9	5
169	Mathematical modelling of the stochastic mechanical properties of wood and its extensibility at small scales. <i>Applied Mathematical Modelling</i> , <b>2014</b> , 38, 3958-3967	4.5	5
168	Low Reynolds Number Behavior of a Solid-State Piezocomposite Variable-Camber Wing <b>2013</b> ,		5
167	Quantifying the Correlation Between Measured and Computed Mode Shapes. <i>JVC/Journal of Vibration and Control</i> , <b>1996</b> , 2, 123-144	2	5
166	Exploiting Functional Fibers in Advanced Composite Materials. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2007</b> , 18, 449-458	2.3	5
165	Damage location indicators from substructure mode shapes. <i>Inverse Problems in Science and Engineering</i> , <b>2000</b> , 8, 309-323		5
164	The Effect of Close or Repeated Eigenvalues on the Updating of Model Parameters from FRF Data. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>1992</b> , 114, 514-520	1.6	5
163	Stepped sine testing using recursive estimation. <i>Mechanical Systems and Signal Processing</i> , <b>1993</b> , 7, 477-498	4.9	5
162	The effect of curved tips on the dynamics of composite rotor blades. <i>Aerospace Science and Technology</i> , <b>2020</b> , 106, 106197	4.9	5
161	Enhancement of harvesting capability of coupled nonlinear energy harvesters through high energy orbits. <i>AIP Advances</i> , <b>2020</b> , 10, 085315	1.5	5
160	Support position optimization with minimum stiffness for plate structures including support mass. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 499, 116003	3.9	5
159	Role of Roots of Orthogonal Polynomials in the Dynamic Response of Stochastic Systems. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2016</b> , 142, 06016004	2.4	5
158	An Optimization-Based Framework for Nonlinear Model Selection and Identification. <i>Vibration</i> , <b>2019</b> , 2, 311-331	2	5
157	Finite Element Model Updating Using the Shadow Hybrid Monte Carlo Technique. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2013</b> , 489-498	0.3	5

156	Finite Element Model Updating of an Assembled Aero-Engine Casing. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2013</b> , 199-212	0.3	5
155	Lag-twist coupling sensitivity and design for a composite blade cross-section with D-spar. <i>Aerospace Science and Technology</i> , <b>2019</b> , 91, 539-547	4.9	4
154	Explanation of the onset of bouncing cycles in isotropic rotor dynamics; a grazing bifurcation analysis. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2020</b> , 476, 20190549	2.4	4
153	Experimental characterisation of asynchronous partially contacting motion in a multiple-degree-of-freedom rotor system. <i>Mechanical Systems and Signal Processing</i> , <b>2020</b> , 145, 106904	7.8	4
152	Spiral pulley negative stiffness mechanism for passive energy balancing. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2016</b> , 27, 1673-1686	2.3	4
151	Design and Optimisation of Composite Corrugated Skin for a Span Morphing Wing <b>2014</b> ,		4
150	Two-level Conceptual Design of Morphing Wings <b>2013</b> ,		4
149	Roll control of a MALE UAV using the adaptive torsion wing. <i>Aeronautical Journal</i> , <b>2013</b> , 117, 299-314	0.9	4
148	Optimization of Surface-Actuated Piezocomposite Variable-Camber Morphing Wings <b>2011</b> ,		4
147	Damage identification of a 3D full scale steel-concrete composite structure with partial-strength joints at different pseudo-dynamic load levels. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2009</b> , 38, 1219-1236	4	4
146	Multi-scale constitutive model for a wood-inspired composite. <i>Procedia Engineering</i> , <b>2011</b> , 10, 3616-3621		4
145	Constrained generic substructure transformations in finite element model updating. <i>Journal of Sound and Vibration</i> , <b>2007</b> , 300, 265-279	3.9	4
144	Finite Element Analysis of Beams with Nonlocal Foundations <b>2006</b> ,		4
143	Car Disc Brake Squeal: Theoretical and Experimental Study. <i>Materials Science Forum</i> , <b>2003</b> , 440-441, 269-277		4
142	Structural Health Monitoring and Damage Assessment Using Measured FRFs from Multiple Sensors, Part II: Decision Making with RBF Networks. <i>Key Engineering Materials</i> , <b>2003</b> , 245-246, 141-148	0.4	4
141	Iterative Methods using Modal Data. <i>Solid Mechanics and Its Applications</i> , <b>1995</b> , 158-227	0.4	4
140	Passive energy balancing design for a linear actuated morphing wingtip structure. <i>Aerospace Science and Technology</i> , <b>2020</b> , 107, 106279	4.9	4
139	Aeroelastic Stability Analysis of Electric Aircraft Wings with Distributed Electric Propulsors. <i>Aerospace</i> , <b>2021</b> , 8, 100	2.5	4

138	Dynamic similarity design method for an aero-engine dualrotor test rig. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 744, 012109	0.3	4
137	Model Validation of a Porous Piezoelectric Energy Harvester Using Vibration Test Data. <i>Vibration</i> , <b>2018</b> , 1, 123-137	2	4
136	Aircraft turbulence and gust identification using simulated in-flight data. <i>Aerospace Science and Technology</i> , <b>2021</b> , 115, 106805	4.9	4
135	Identification of modal parameters from noisy transient response signals. <i>Structural Control and Health Monitoring</i> , <b>2017</b> , 24, e2019	4.5	3
134	Multi-scale model updating of a timber footbridge using experimental vibration data. <i>Engineering Computations</i> , <b>2017</b> , 34, 754-780	1.4	3
133	Transient response analysis of randomly parametrized finite element systems based on approximate balanced reduction. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2015</b> , 285, 542-570	5.7	3
132	Comparison of point foot, collisional and smooth rolling contact models on the bifurcations and stability of bipedal walking. <i>European Journal of Computational Mechanics</i> , <b>2016</b> , 25, 273-293	0.5	3
131	A novel mathematical formulation for predicting symmetric passive bipedal walking motion with unbalanced masses. <i>Applied Mathematical Modelling</i> , <b>2016</b> , 40, 3895-3906	4.5	3
130	Conceptual-level evaluation of a variable stiffness skin for a morphing wing leading edge. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2019</b> , 233, 5703-5716	0.9	3
129	Approximate frequency analysis in structural dynamics. <i>Mechanical Systems and Signal Processing</i> , <b>2012</b> , 27, 370-378	7.8	3
128	The Design of a Corrugated Skin for the FishBAC Compliant Structure <b>2014</b> ,		3
127	A Hybrid Atomistic Approach for the Mechanics of Deoxyribonucleic Acid Molecules. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2013</b> , 4,		3
126	Computational multi-scale constitutive model for wood cell wall and its application to the design of bio-inspired composites <b>2011</b> ,		3
125	Hyperelastic modelling of post-buckling response in single wall carbon nanotubes under axial compression. <i>Procedia Engineering</i> , <b>2011</b> , 10, 2256-2261		3
124	Special Topical Issue on Morphing Aircraft. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2011</b> , 22, 821-822	2.3	3
123	Acoustic emission from pitting corrosion in stressed stainless steel plate. <i>Corrosion Engineering Science and Technology</i> , <b>2008</b> , 43, 54-63	1.7	3
122	Recent Advances in Self-Healing Materials Systems 247-260		3
121	Adaptive Structures [Some Biological Paradigms] 261-285		3



120	Automatic Balancing of a Rigid Rotor with Misaligned Shaft. <i>Applied Mechanics and Materials</i> , <b>2006</b> , 5-6, 231-236	0.3	3
119	Improving Spot Weld Models in Structural Dynamics <b>2003</b> , 379		3
118	Defective Systems and Pseudospectra. <i>Materials Science Forum</i> , <b>2003</b> , 440-441, 287-294	0.4	3
117	Application of High Frequency Monitoring for Classification of Rolling Element Bearing Failures. <i>Key Engineering Materials</i> , <b>2001</b> , 204-205, 173-184	0.4	3
116	Crack Detection in Asymmetric Rotors. <i>Key Engineering Materials</i> , <b>1999</b> , 167-168, 246-255	0.4	3
115	Application of four control strategies to high-speed independent drive systems. <i>Control Engineering Practice</i> , <b>1995</b> , 3, 1059-1065	3.9	3
114	Vibration Testing. <i>Solid Mechanics and Its Applications</i> , <b>1995</b> , 36-55	0.4	3
113	The Analysis of Earthquake Waves Based on Nonlinear Responses of RC Structures <b>2004</b> ,		3
112	Fuzzy uncertainty analysis and reliability assessment of aeroelastic aircraft wings. <i>Aeronautical Journal</i> , <b>2020</b> , 124, 786-811	0.9	3
111	An Adaptive Markov Chain Monte Carlo Method for Bayesian Finite Element Model Updating. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2016</b> , 55-65	0.3	3
110	Predicting global strain limits for corrugated panels. <i>Composite Structures</i> , <b>2020</b> , 231, 111472	5.3	3
109	Optimisation of the Filament Winding Approach Using a Newly Developed In-House Uncertainty Model. <i>Eng</i> , <b>2020</b> , 1, 122-136	0.7	3
108	Analysis of Harvesting Energy from Mistuned Multiple Harvesters with and without Coupling. <i>Procedia Engineering</i> , <b>2016</b> , 144, 621-628		3
107	Eigenderivative analysis of asymmetric non-conservative systems <b>2001</b> , 51, 709		3
106	Optimal Sensor Placement for Structures Under Parametric Uncertainty. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2013</b> , 125-132	0.3	3
105	Development and Testing of a Corrugated Skin for a Camber Morphing Aerofoil <b>2015</b> ,		2
104	On post-resonance backward whirl in an overhung rotor with snubbing contact. <i>Nonlinear Dynamics</i> , <b>2020</b> , 101, 741-754	5	2
103	Mode shape transformation for model error localization with modal strain energy. <i>Journal of Sound and Vibration</i> , <b>2020</b> , 473, 115230	3.9	2

102	Updating of aerodynamic reduced order models generated using computational fluid dynamics. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2018</b> , 232, 1739-1763	0.9	2
101	The robustness of carbon fibre members bonded to aluminium connectors in aerial delivery systems. <i>Cogent Engineering</i> , <b>2016</b> , 3, 1225879	1.5	2
100	Multi-objective Optimization of Zero Propellant Spacecraft Attitude Maneuvers. <i>Journal of Optimization Theory and Applications</i> , <b>2014</b> , 163, 926-948	1.6	2
99	Base excited hybrid energy harvesting <b>2013</b> ,		2
98	The Adaptive Aspect Ratio Morphing Wing: Design Concept and Low Fidelity Skin Optimization <b>2014</b> ,		2
97	Aerodynamic Performance of Corrugated Skins for Spanwise Wing Morphing <b>2014</b> ,		2
96	On the effectiveness of active aeroelastic structures for morphing aircraft. <i>Aeronautical Journal</i> , <b>2013</b> , 117, 1167-1176	0.9	2
95	Adaptive backstepping fault-tolerant control for flexible spacecraft with bounded unknown disturbances <b>2009</b> ,		2
94	MINIMISATION OF THE EFFECT OF UNCERTAINTY ON MODEL ESTIMATION. <i>Mechanical Systems and Signal Processing</i> , <b>1998</b> , 12, 333-355	7.8	2
93	Modal Vibration-Based Damage Identification <b>2008</b> ,		2
92	Adaptive Structures for Structural Health Monitoring1-32		2
91	Adaptive Aerospace Structures with Smart Technologies I A Retrospective and Future View163-190		2
90	The Dynamics of Rotating Machines with Cracks. <i>Materials Science Forum</i> , <b>2003</b> , 440-441, 311-320	0.4	2
89	Quantification of Uncertainty Using Inverse Methods <b>2004</b> ,		2
88	The Identification of the Unbalance of a Flexible Rotating Machine From a Single Run-Down <b>2002</b> , 909		2
87	Damage Location in Beams by Using Rigid-Body Constraints. <i>Key Engineering Materials</i> , <b>1999</b> , 167-168, 381-390	0.4	2
86	Parameters for Model Updating. <i>Solid Mechanics and Its Applications</i> , <b>1995</b> , 98-125	0.4	2
85	Stepped multisine modal testing using phased components. <i>Mechanical Systems and Signal Processing</i> , <b>1990</b> , 4, 145-156	7.8	2

84	Combining Subset Selection and Parameter Constraints in Model Updating <b>1997</b> ,		2
83	Acoustic Emission in Wide Composite Specimens. <i>Advanced Materials Research</i> ,325-332	0.5	2
82	Uncertainty Analysis of Mechanical Behavior of Functionally Graded Carbon Nanotube Composite Materials. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2016</b> , 59-72	0.3	2
81	Identification of Breathing Cracked Shaft Models from Measurements. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2016</b> , 537-543	0.3	2
80	Design, analysis, and feedback control of a nonlinear micro-piezoelectric-electrostatic energy harvester. <i>Nonlinear Dynamics</i> , <b>2020</b> , 100, 3029-3042	5	2
79	Mode Shape Description and Model Updating of Axisymmetric Structures Using Radial Tchebichef Moment Descriptors. <i>Shock and Vibration</i> , <b>2021</b> , 2021, 1-19	1.1	2
78	Eringen's nonlocal and modified couple stress theories applied to vibrating rotating nanobeams with temperature effects. <i>Mechanics of Advanced Materials and Structures</i> ,1-26	1.8	2
77	Experimental Study of Rotor-Stator Contact Cycles. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 502, 116097	3.9	2
76	On the sensitivity of the equivalent dynamic stiffness mapping technique to measurement noise and modelling error. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 89, 225-248	4.5	2
75	Nonlinear rotordynamics of a MDOF rotor-stator contact system subjected to frictional and gravitational effects. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 159, 107776	7.8	2
74	Nonlinear MEMS Piezoelectric Harvesters in the presence of geometric and structural variabilities. <i>Procedia Engineering</i> , <b>2017</b> , 199, 3456-3461		1
73	Experimental validation of an impact off-resonance energy harvester. <i>European Physical Journal: Special Topics</i> , <b>2019</b> , 228, 1635-1646	2.3	1
72	Automatic mode tracking for flight dynamic analysis using a spanning algorithm. <i>Aerospace Science and Technology</i> , <b>2015</b> , 47, 54-67	4.9	1
71	MDAO for Aerodynamic Assessment of a Morphed Wing for the Loiter Segment of a UAV Flight Mission <b>2016</b> ,		1
70	Steady-state response of a random dynamical system described with Padé approximants and random eigenmodes. <i>Procedia Engineering</i> , <b>2017</b> , 199, 1104-1109		1
69	Non-Linear Piezoelectric Vibration Energy Harvesting From a Vertical Cantilever Beam With Tip Mass <b>2013</b> ,		1
68	Effect of Span-morphing on the Flight Modes, Stability & Control <b>2013</b> ,		1
67	Coupled Modeling and Optimization of Piezocomposite Wings <b>2013</b> ,		1

66	Robust variable structure attitude control with L2-gain performance for a flexible spacecraft including input saturation. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , <b>2010</b> , 224, 153-167	1	1
65	Torsional Vibration of Machines with Gear Errors. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 305, 012020.3		1
64	Special Topical Issue on Morphing Aircraft. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2011</b> , 22, 977-978	2.3	1
63	A Summary of Several Studies with Unsymmetric Laminates 191-229		1
62	Condition Monitoring of Cracked Shaft using Active Magnetic Bearings <b>2007</b> , 494-504		1
61	The analysis of distributed systems with nonlocal damping <b>2006</b> , 6169, 232		1
60	DETECTING ALIASED FREQUENCY COMPONENTS IN DISCRETE FOURIER TRANSFORMS. <i>Mechanical Systems and Signal Processing</i> , <b>2003</b> , 17, 473-481	7.8	1
59	Nonlinear Vibration in Gear Systems <b>2005</b> , 339-348		1
58	Clifford Algebraic Perspective on Second-Order Linear Systems. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2001</b> , 24, 35-45	2.1	1
57	Compound Matrices and Pfaffians: A Representation of Geometric Algebra <b>2002</b> , 109-118		1
56	Some Further Insight Into Self-Adjoint Second-Order Systems. <i>JVC/Journal of Vibration and Control</i> , <b>1999</b> , 5, 237-252	2	1
55	Parameter Identification of a Strongly Nonlinear Rotor-Bearing System Based on Reconstructed Constant Response Tests. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2020</b> , 142,	1.7	1
54	Bayesian Finite Element Model Updating Using a Population Markov Chain Monte Carlo Algorithm. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2021</b> , 259-269	0.3	1
53	Model Updating <b>2020</b> , 1-53		1
52	Experimental Identification of a Structure with Internal Resonance. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2016</b> , 37-45	0.3	1
51	Multiple Solutions and Corresponding Power Output of Nonlinear Piezoelectric Energy Harvester. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2016</b> , 343-350	0.2	1
50	On the Effects of Structural Coupling on Piezoelectric Energy Harvesting Systems Subject to Random Base Excitation. <i>Aerospace</i> , <b>2020</b> , 7, 93	2.5	1
49	The effect of folding wingtips on the worst-case gust loads of a simplified aircraft model. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 095441002110109	0.9	1

48	Robust topological designs for extreme metamaterial micro-structures. <i>Scientific Reports</i> , <b>2021</b> , 11, 15224	19	1
47	A global two-layer meta-model for response statistics in robust design optimization. <i>Engineering Optimization</i> , 1-17	2	1
46	Analysis of pendulums coupled by torsional springs for energy harvesting. <i>MATEC Web of Conferences</i> , <b>2018</b> , 211, 05008	0.3	1
45	Experimental study of lag-twist coupling concept for rotor blade application. <i>Composite Structures</i> , <b>2021</b> , 275, 114417	5.3	1
44	Harmonic-Balance-Based parameter estimation of nonlinear structures in the presence of Multi-Harmonic response and force. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 162, 108057	7.8	1
43	Minimization of the discretization error in mass and stiffness formulations by an inverse method <b>1998</b> , 41, 371		1
42	Rapid Path Planning for Zero-Propellant Maneuvers. <i>Journal of Aerospace Engineering</i> , <b>2016</b> , 29, 0401507	18	0
41	Measurement of the multivalued phase curves of a strongly nonlinear system by fixed frequency tests. <i>Archive of Applied Mechanics</i> , <b>2020</b> , 90, 2543-2560	2.2	0
40	Multilevel Decomposition Framework for Reliability Assessment of Assembled Stochastic Linear Structural Systems. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , <b>2021</b> , 7, 04021003	1.7	0
39	Continuation analysis of a nonlinear rotor system. <i>Nonlinear Dynamics</i> , <b>2021</b> , 105, 25-43	5	0
38	The stochastic aeroelastic response analysis of helicopter rotors using deep and shallow machine learning. <i>Neural Computing and Applications</i> , 1	4.8	0
37	Powering smart pipes with fluid flow: Effect of velocity profiles. <i>Computers and Structures</i> , <b>2022</b> , 258, 106680	4.5	0
36	Experimental validation of inertial twist concept for rotor blade application. <i>Composite Structures</i> , <b>2022</b> , 288, 115414	5.3	0
35	Erratum for Rapid Path Planning for Zero-Propellant Maneuvers by Sheng Zhang, Michael I. Friswell, David J. Wagg, and Guo-Jin Tang. <i>Journal of Aerospace Engineering</i> , <b>2017</b> , 30, 08217001	1.4	
34	Multiharmonic Resonance Control Testing of an Internally Resonant Structure. <i>Vibration</i> , <b>2020</b> , 3, 217-234		
33	Normal form analysis of stator rub in rotating machinery. <i>MATEC Web of Conferences</i> , <b>2018</b> , 148, 04004	0.3	
32	Random Excitation of Bistable Harvesters <b>2013</b> , 191-218		
31	Parameter subset selection based damage detection of aluminium frame structure. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 305, 012092	0.3	

- 30 Smart Rotating Machines for Condition Monitoring. *Key Engineering Materials*, **2009**, 413-414, 423-430 0.4
- 29 Discussion by Abbas Moustafa of The effect of energy concentration of earthquake ground motions on the nonlinear response of RC structures. *Soil Dynamics and Earthquake Engineering*, **2009**, 29 (2), 292-299. *Soil Dynamics and Earthquake Engineering*, **2009**, 29, 1184-1185 3.5
- 28 REORIENTATION OF FIBRES AND LOCAL MECHANISMS OF DEFORMATION IN A WOOD-INSPIRED COMPOSITE. *Journal of Multiscale Modeling*, **2012**, 04, 1250003 0.8
- 27 Torsional vibration of machines with gear errors **2012**, 789-798
- 26 Sensor and actuator topology for vibration control and parameter estimation **1997**, 3039, 735
- 25 The use of identified parameter limits in a robust adaptive controller. *Control Engineering Practice*, **1997**, 5, 469-475 3.9
- 24 Distributed Sensing for Active Control 33-57
- 23 Global Vibration Control Through Local Feedback 59-87
- 22 Efficient placement of rigid supports using finite element models, *Communications in Numerical Methods in Engineering* 2006; 22:205-213. *Communications in Numerical Methods in Engineering*, **2006**, 23, 333-334
- 21 Vibration Control Using Smart Structures **2003**, 37-70
- 20 Authors' reply to Comments on Eigenderivative analysis of asymmetric non-conservative systems. *International Journal for Numerical Methods in Engineering*, **2003**, 56, 329-330 2.4
- 19 Introduction by Session Chairman. *Materials Science Forum*, **2003**, 440-441, 278-278 0.4
- 18 Novel Cost-Effective Balancing of Rotating Machinery. *Noise and Vibration Worldwide*, **2001**, 32, 16-21 0.8
- 17 Methods using Frequency Domain Data. *Solid Mechanics and Its Applications*, **1995**, 228-256 0.4
- 16 An Adaptive Control System Incorporating H<sub>∞</sub> Concepts for High-Speed Machinery with Independent Drives. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **1994**, 208, 43-52 1
- 15 Bayesian Finite Element Model Updating Using an Improved Evolution Markov Chain Algorithm. *Conference Proceedings of the Society for Experimental Mechanics*, **2022**, 163-174 0.3
- 14 Parametric Amplification in a Stochastic Nonlinear Piezoelectric Energy Harvester Via Machine Learning. *Conference Proceedings of the Society for Experimental Mechanics*, **2022**, 283-291 0.3
- 13 The Role of Clifford Algebra in Structure-Preserving Transformations for Second-Order Systems **2002**, 351-359

12	An Energy Measure for Mode Localization. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2016</b> , 105-110	0.3
11	Dynamics of an MDOF Rotor Stator Contact System. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2016</b> , 415-423	0.3
10	A Pretest Planning Method for Model Calibration for Nonlinear Systems. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2016</b> , 371-379	0.3
9	Shaped Modal Sensors for Uncertain Dynamical Systems <b>2010</b> , 187-197	
8	Robust Tolerance Design in Structural Dynamics. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2013</b> , 153-164	0.3
7	Energy Harvesting in a Coupled System Using Nonlinear Impact. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2014</b> , 255-261	0.3
6	A pulse size estimation method for reduced-order models*. <i>Aeronautical Journal</i> , <b>2016</b> , 120, 1891-1916	0.9
5	Model Updating <b>2021</b> , 1-53	
4	A robust design of an innovative shaped rebar system using a novel uncertainty model. <i>Structural and Multidisciplinary Optimization</i> , <b>2018</b> , 58, 1351-1365	3.6
3	Non-linear modal interactions during rub-impact of a rotating flexible shaft. <i>JVC/Journal of Vibration and Control</i> , 107754632110664	2
2	Model Updating <b>2022</b> , 897-949	
1	Finite Element Model Updating Using a Shuffled Complex Evolution Markov Chain Algorithm. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2023</b> , 21-29	0.3