List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Particle filter-based algorithm of simultaneous output and parameter estimation for output nonlinear systems under low measurement rate constraints. Nonlinear Dynamics, 2022, 107, 727-741.	5.2	1
2	On the Performance of Vertically Aligned Graphene Array Membranes for Desalination. ACS Applied Materials & Interfaces, 2022, 14, 27405-27412.	8.0	6
3	Cross-section effect on mechanics of nonlocal beams. Archive of Applied Mechanics, 2021, 91, 1541-1556.	2.2	19
4	Repeated eigenvalues and their derivatives of structural vibration systems with general nonproportional viscous damping. Mechanical Systems and Signal Processing, 2021, 159, 107750.	8.0	2
5	A review on low dimensional carbon desalination and gas separation membrane designs. Journal of Membrane Science, 2020, 598, 117785.	8.2	64
6	Investigations on different two-dimensional materials as slit membranes for enhanced desalination. Journal of Membrane Science, 2020, 598, 117653.	8.2	32
7	A state-of-the-art review on theory and engineering applications of eigenvalue and eigenvector derivatives. Mechanical Systems and Signal Processing, 2020, 138, 106536.	8.0	40
8	An investigation on the effects of nanoplastic particles on nanoporous graphene membrane desalination. Desalination, 2020, 496, 114765.	8.2	7
9	Maximum likelihood least squaresâ€based iterative methods for outputâ€error bilinearâ€parameter models with colored noises. International Journal of Robust and Nonlinear Control, 2020, 30, 6262-6280.	3.7	25
10	Contribution of nonlocality to surface elasticity. International Journal of Engineering Science, 2020, 152, 103311.	5.0	77
11	Prediction of mistuning effect of bladed disks using eigensensitivity analysis. Engineering Structures, 2020, 212, 110416.	5.3	1
12	Nanopumping of water via rotation of graphene nanoribbons. Nanotechnology, 2020, 31, 175704.	2.6	1
13	Evaluation of structural epoxy and cyanoacrylate adhesives on jointed 3D printed polymeric materials. International Journal of Adhesion and Adhesives, 2020, 100, 102602.	2.9	22
14	A fractional nonlocal time-space viscoelasticity theory and its applications in structural dynamics. Applied Mathematical Modelling, 2020, 84, 116-136.	4.2	38
15	Development of a theoretical framework for vibration analysis of the class of problems described by fractional derivatives. Mechanical Systems and Signal Processing, 2019, 116, 78-96.	8.0	12
16	Machine-learning assisted coarse-grained model for epoxies over wide ranges of temperatures and cross-linking degrees. Materials and Design, 2019, 183, 108130.	7.0	32
17	Parameter estimation for a special class of nonlinear systems by using the over-parameterisation method and the linear filter. International Journal of Systems Science, 2019, 50, 1689-1702.	5.5	4
18	New Type of Spectral Nonlinear Resonance Enhances Identification of Weak Signals. Scientific Reports, 2019, 9, 14125.	3.3	6

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19	New theoretical developments on eigenvector derivatives with repeated eigenvalues. Mechanical Systems and Signal Processing, 2019, 129, 677-693.	8.0	4
20	Finite element analysis of 3D-Printed Acrylonitrile Styrene Acrylate (ASA) with Ultrasonic material characterization. International Journal of Computational Materials Science and Engineering, 2019, 08, 1950002.	0.7	2
21	Many-body dissipative particle dynamics simulations of nanodroplet formation in 3D nano-inkjet printing. Modelling and Simulation in Materials Science and Engineering, 2019, 27, 055005.	2.0	9
22	Eigenvalue and eigenvector derivatives of fractional vibration systems. Mechanical Systems and Signal Processing, 2019, 127, 423-440.	8.0	9
23	A non-destructive experimental-cum-numerical methodology for the characterization of 3D-printed materials—polycarbonate-acrylonitrile butadiene styrene (PC-ABS). Mechanics of Materials, 2019, 132, 121-133.	3.2	30
24	Carbon nanotube arrays as multilayer transverse flow carbon nanotube membrane for efficient desalination. Journal of Membrane Science, 2019, 581, 383-392.	8.2	20
25	An iterative method for exact eigenvalues and eigenvectors of general nonviscously damped structural systems. Engineering Structures, 2019, 180, 630-641.	5.3	14
26	Frequency response functions and modal analysis of general nonviscously damped dynamic systems with and without repeated modes. Mechanical Systems and Signal Processing, 2019, 120, 744-764.	8.0	10
27	Effects of oscillating pressure on desalination performance of transverse flow CNT membrane. Desalination, 2019, 451, 35-44.	8.2	10
28	Numerical investigations on different configurations of a four-channel meso-scale planar combustor fueled by hydrogen/air mixture. Energy Conversion and Management, 2018, 160, 1-13.	9.2	41
29	Effects of CNT size on the desalination performance of an outer-wall CNT slit membrane. Physical Chemistry Chemical Physics, 2018, 20, 13896-13902.	2.8	16
30	Numerical investigations on an improved counterflow double-channel micro combustor fueled with hydrogen for enhancing thermal performance. Energy Conversion and Management, 2018, 159, 163-174.	9.2	73
31	Higher-order FRFs and their applications to the identifications of continuous structural systems with discrete localized nonlinearities. Mechanical Systems and Signal Processing, 2018, 108, 326-346.	8.0	7
32	Applications of higher-order frequency response functions to the detection and damage assessment of general structural systems with breathing cracks. International Journal of Mechanical Sciences, 2018, 148, 652-666.	6.7	21
33	Comments on "Nonlinear vibration of viscoelastic beams described using fractional order derivativesâ€. Journal of Sound and Vibration, 2018, 428, 195-204.	3.9	6
34	Identification of Volterra kernels for improved predictions of nonlinear aeroelastic vibration responses and flutter. Engineering Structures, 2018, 171, 15-28.	5.3	7
35	Secure Image Encryption Based on an Ideal New Nonlinear Discrete Dynamical System. Mathematical Problems in Engineering, 2018, 2018, 1-12.	1.1	6
36	Commentary on "Discussion on â€Function-weighted frequency response function sensitivity method for analytical model updating' by A. Esfandiari and M. Sanayei― Journal of Sound and Vibration, 2018, 432, 706-714.	3.9	0

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37	A new method for the accurate measurement of higher-order frequency response functions of nonlinear structural systems. ISA Transactions, 2018, 81, 270-285.	5.7	15
38	Function-weighted frequency response function sensitivity method for analytical model updating. Journal of Sound and Vibration, 2017, 403, 59-74.	3.9	15
39	Nanoscale Fluid Mechanics Working Principles of Transverse Flow Carbon Nanotube Membrane for Enhanced Desalination. International Journal of Applied Mechanics, 2017, 09, 1750034.	2.2	16
40	Exact vibration modes of multiple-stepped beams with arbitrary steps and supports using elemental impedance method. Engineering Structures, 2017, 152, 24-34.	5.3	12
41	Modelling, detection and identification of flexural crack damages in beams using frequency response functions. Meccanica, 2016, 51, 2027-2044.	2.0	11
42	Elastic Buckling Behaviour of General Multi-Layered Graphene Sheets. AIMS Materials Science, 2015, 2, 61-78.	1.4	1
43	A study of the scale effects on the flexural vibration of graphene sheets using REBO potential based atomistic structural and nonlocal couple stress thin plate models. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 50, 22-28.	2.7	12
44	Nonlinear Structural and Vibration Analysis of Graphene Sheets. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1941-1951.	0.4	0
45	Nanoscale vibration characterization of multi-layered graphene sheets embedded in an elastic medium. Computational Materials Science, 2012, 53, 44-52.	3.0	39
46	Nanoscale vibration characteristics of multi-layered graphene sheets. Mechanical Systems and Signal Processing, 2012, 29, 251-261.	8.0	29
47	A Novel Perturbative Iteration Algorithm for Effective and Efficient Solution of Frequency-Dependent Eigenvalue Problems. Advances in Applied Mathematics and Mechanics, 2012, 4, 325-339.	1.2	0
48	A new REBO potential based atomistic structural model for graphene sheets. Nanotechnology, 2011, 22, 295711.	2.6	22
49	Nonlocal Plate Model for the Free Vibration Analysis of Nanoplates with Different Boundary Conditions. Journal of Computational and Theoretical Nanoscience, 2011, 8, 2118-2128.	0.4	17
50	Cusp error reduction under high speed micro/meso- scale milling with ultrasonic vibration assistance. International Journal of Precision Engineering and Manufacturing, 2011, 12, 15-20.	2.2	26
51	Identification of modal parameters of unmeasured modes using multiple FRF modal analysis method. Mechanical Systems and Signal Processing, 2011, 25, 151-162.	8.0	10
52	Optimization of Sensing and Feedback Control for Vibration/Flutter of Rotating Disk by PZT Actuators via Air Coupled Pressure. Sensors, 2011, 11, 3094-3116.	3.8	7
53	Modeling of interfacial friction damping of carbon nanotube-based nanocomposites. Mechanical Systems and Signal Processing, 2010, 24, 2996-3012.	8.0	49
54	On the relationship between viscous and hysteretic damping models and the importance of correct interpretation for system identification. Journal of Sound and Vibration, 2009, 325, 14-33.	3.9	29

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55	Servo system modeling and reduction of mechatronic system through finite element analysis for control design. Mechatronics, 2008, 18, 466-474.	3.3	14
56	Finite element model updating using vibration test data under base excitation. Journal of Sound and Vibration, 2007, 303, 596-613.	3.9	26
57	Model updating of damped structures using FRF data. Mechanical Systems and Signal Processing, 2006, 20, 2200-2218.	8.0	90
58	Structural dynamics of microsystems—current state of research and future directions. Mechanical Systems and Signal Processing, 2006, 20, 1015-1043.	8.0	82
59	General optimization of sizes or placement for various sensors/actuators in structure testing and control. Smart Materials and Structures, 2006, 15, 724-736.	3.5	6
60	Robust finite element model updating using Taguchi method. Journal of Sound and Vibration, 2005, 280, 77-99.	3.9	40
61	Robust Damage Location in Structures Using Taguchi Method. Journal of Structural Engineering, 2005, 131, 629-642.	3.4	6
62	Theoretical analysis and measurement of the temperature dependence of a micromachined Fabry–Perot pressure sensor. Applied Optics, 2005, 44, 249.	2.1	3
63	Gaussian-optics-based optical modeling and characterization of a Fabry–Perot microcavity for sensing applications. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 1577.	1.5	10
64	A single-chip diaphragm-type miniature Fabry–Perot pressure sensor with improved cross-sensitivity to temperature. Measurement Science and Technology, 2004, 15, 905-910.	2.6	6
65	Performance of a novel nonplanar diaphragm and its application to optical sensing devices. , 2004, , .		0
66	Design and fabrication of high sensitive microphone diaphragm using deep corrugation technique. Microsystem Technologies, 2004, 10, 142-146.	2.0	7
67	Improvement on the iterated IRS method for structural eigensolutions. Journal of Sound and Vibration, 2004, 270, 713-727.	3.9	45
68	A new iterative order reduction(IOR) method for eigensolutions of large structures. International Journal for Numerical Methods in Engineering, 2004, 59, 153-172.	2.8	48
69	The effect of baking conditions on the effective contact areas of screen-printed silver layer on silicon substrate. Solar Energy Materials and Solar Cells, 2004, 85, 73-73.	6.2	1
70	Development of a novel Fabry–Perot pressure microsensor. Sensors and Actuators A: Physical, 2004, 116, 59-65.	4.1	31
71	Frequency selection method for FRF-based model updating. Journal of Sound and Vibration, 2004, 278, 285-306.	3.9	44
72	Extrinsic Fabry-Perot pressure sensor using single deeply corrugated diaphragm technique. , 2004, 5346. 15		5

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73	Fabry-Perot microcavity pressure sensor with a novel single deeply corrugated diaphragm. Microwave and Optical Technology Letters, 2003, 39, 240-243.	1.4	4
74	THE APPLICATION OF PSEUDO-PHASE PORTRAIT IN MACHINE CONDITION MONITORING. Journal of Sound and Vibration, 2003, 259, 1-16.	3.9	23
75	A new eigensolution of structures via dynamic condensation. Journal of Sound and Vibration, 2003, 266, 93-106.	3.9	24
76	Performance of a novel non-planar diaphragm for high-sensitivity structures. Microelectronics Journal, 2003, 34, 791-796.	2.0	6
77	Resonance enhancement of micromachined resonators with strong mechanical-coupling between two degrees of freedom. Microelectronic Engineering, 2003, 65, 1-12.	2.4	36
78	Performance-enhanced Fabry–Perot microcavity structure with a novel non-planar diaphragm. Microelectronic Engineering, 2003, 70, 102-108.	2.4	18
79	Experimental modeling and compensation of pivot nonlinearity in hard disk drives. IEEE Transactions on Magnetics, 2003, 39, 1064-1069.	2.1	17
80	Image measurement of geometrical size for three-dimensional microstructure of MEMS. Journal of Micromechanics and Microengineering, 2003, 13, 300-306.	2.6	0
81	Analytical and experimental investigations on vibrational control mechanisms for flexible active structures. Smart Materials and Structures, 2003, 12, 500-506.	3.5	6
82	Design and fabrication of silicon condenser microphone using single deeply corrugated diaphragm technique. Microelectronics International, 2003, 20, 36-40.	0.6	3
83	Reliability of PBGA assemblies under out-of-plane vibration excitations. IEEE Transactions on Components and Packaging Technologies, 2002, 25, 293-300.	1.3	35
84	Analytical and experimental investigations on vibration control mechanisms for flexible active structures. , 2002, , .		1
85	<title>Scalable free-space optical switches based on MEMS vertical mirrors</title> . , 2002, , .		Ο
86	Design considerations in micromachined silicon microphones. Microelectronics Journal, 2002, 33, 21-28.	2.0	54
87	<title>Control of stresses in highly doped multilayer polysilicon structures used in MEMS applications</title> .,2001,,.		1
88	<title>Design and simulation of a novel micromachined vibratory gyroscope with enhanced-sensitivity performance</title> . , 2001, 4593, 72.		2
89	Study of deep silicon etching for micro-gyroscope fabrication. Applied Surface Science, 2001, 177, 78-84.	6.1	30
90	Sensitivity-improved silicon condenser microphone with a novel single deeply corrugated diaphragm. Sensors and Actuators A: Physical, 2001, 92, 257-262.	4.1	53

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91	Control of stress in highly doped polysilicon multi-layer diaphragm structure. Surface and Coatings Technology, 2001, 141, 96-102.	4.8	26
92	Novel method for minimizing track seeking residual vibrations of hard disk drives. IEEE Transactions on Magnetics, 2001, 37, 1146-1156.	2.1	7
93	A dynamic analysis for the suspension structure in hard disk drives using piezofilm actuators. Smart Materials and Structures, 2001, 10, 409-413.	3.5	6
94	<title>Test and reliability analysis of PBGA assemblies under random vibration</title> . , 2000, , .		3
95	<title>Deep cavity-shaped diaphragm for enhancement of microphone mechanical sensitivity</title> . , 2000, , .		0
96	Design considerations in micromachined silicon microphones. , 2000, , .		1
97	Vibration reliability characterization of PBGA assemblies. Microelectronics Reliability, 2000, 40, 1097-1107.	1.7	52
98	Studies on the formation of microcrystalline silicon with PECVD under low and high working pressure. Thin Solid Films, 2000, 376, 249-254.	1.8	31
99	Performance-enhanced micro-machined resonant systems with two-degrees-of-freedom resonators. Journal of Micromechanics and Microengineering, 2000, 10, 534-539.	2.6	11
100	Study on convex-corner undercutting formed by masked-maskless etching in aqueous KOH. Journal of Micromechanics and Microengineering, 2000, 10, 309-313.	2.6	5
101	CoMSaT: a single-chip fabrication technique for three-dimensional integrated fluid systems. Sensors and Actuators A: Physical, 1999, 72, 115-124.	4.1	3
102	A study on micromachined bimetallic actuation. Sensors and Actuators A: Physical, 1999, 78, 212-219.	4.1	14
103	Generalized receptance-based method for accurate and efficient modal synthesis. International Journal for Numerical Methods in Engineering, 1999, 44, 1749-1767.	2.8	0
104	<title>Which etchant used and whether an etching mask exists: how they make differences on convex-corner undercutting configuration and compensation criteria</title> . , 1999, , .		0
105	A novel integrated silicon capacitive microphone-floating electrode "electret" microphone (FEEM). Journal of Microelectromechanical Systems, 1998, 7, 224-234.	2.5	20
106	A study on corrugated diaphragms for high-sensitivity structures. Journal of Micromechanics and Microengineering, 1997, 7, 310-315.	2.6	17
107	Structural damage detection using measured FRF data. Computer Methods in Applied Mechanics and Engineering, 1997, 147, 187-197.	6.6	133
108	Modal analysis of close modes using perturbative sensitivity approach. Engineering Structures, 1997, 19, 397-406.	5.3	7

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109	DERIVATION OF STRUCTURAL DESIGN SENSITIVITIES FROM VIBRATION TEST DATA. Journal of Sound and Vibration, 1997, 201, 613-631.	3.9	24
110	A practical algorithm for the efficient computation of eigenvector sensitivities. Computer Methods in Applied Mechanics and Engineering, 1996, 130, 355-367.	6.6	22
111	New method for accurate and consistent identification of modal parameters. Journal of Guidance, Control, and Dynamics, 1996, 19, 992-999.	2.8	1
112	Complex eigensensitivityâ€based characterization of structures with viscoelastic damping. Journal of the Acoustical Society of America, 1996, 100, 3182-3191.	1.1	31
113	Eigenvector derivatives of structures with rigid body modes. AIAA Journal, 1996, 34, 1083-1085.	2.6	14
114	Analytical model updating and model reduction. AIAA Journal, 1996, 34, 1966-1969.	2.6	5
115	Application of generalized differential quadrature to vibration analysis. Journal of Sound and Vibration, 1995, 181, 279-293.	3.9	56
116	Location of localised stiffness non-linearity using measured modal data. Mechanical Systems and Signal Processing, 1995, 9, 329-339.	8.0	16
117	Natural frequencies of plates with arbitrary concentrated mass and stiffness modifications. Computers and Structures, 1995, 57, 721-729.	4.4	6
118	Structural sensitivity analysis via reduced-order analytical model. Computer Methods in Applied Mechanics and Engineering, 1995, 121, 345-359.	6.6	17
119	A new complex inverse eigensensitivity method for structural damping model identification. Computers and Structures, 1994, 52, 905-915.	4.4	22
120	Deflection of plates with nonlinear boundary supports using generalized differential quadrature. Computers and Structures, 1994, 53, 993-999.	4.4	23
121	Analytical model improvement using frequency response functions. Mechanical Systems and Signal Processing, 1994, 8, 437-458.	8.0	99
122	Application of generalized differential quadrature method to structural problems. International Journal for Numerical Methods in Engineering, 1994, 37, 1881-1896.	2.8	151
123	Large deflection analysis of plates under thermal loading. Computer Methods in Applied Mechanics and Engineering, 1994, 117, 381-390.	6.6	32
124	Chaotic vibration of mechanical systems with backlash. Mechanical Systems and Signal Processing, 1993, 7, 257-272.	8.0	18
125	Improving finite element models in the higher frequency range using modified frequency response function sensitivity method. Finite Elements in Analysis and Design, 1993, 15, 157-175.	3.2	13
126	Sensitivity based method for structural dynamic model improvement. Computers and Structures, 1993, 47, 349-369.	4.4	11

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127	Experimental modal analysis of PBGA printed circuit board assemblies. , 0, , .		9
128	Design and fabrication of a novel integrated floating-electrode-"electret"-microphone (FFEM). , 0, , .		0
129	Discrete-time sliding mode repetitive control for track-following of optical disk drives. , 0, , .		3
130	Optimization of track seeking pulse waveform in hard disk drives. , 0, , .		0
131	Vibration interaction characteristics of disks-spindle. , 0, , .		0
132	Surface Quality Improvement in Meso-Scale Milling with Spindle Axial Directional Ultrasonic Vibration Assistance. Advanced Materials Research, 0, 565, 508-513.	0.3	4