

zhongrong Lv

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,121
citations

430442

18
h-index

395343

33
g-index

38
all docs

38
docs citations

38
times ranked

661
citing authors

#	ARTICLE	IF	CITATIONS
1	Features of dynamic response sensitivity and its application in damage detection. <i>Journal of Sound and Vibration</i> , 2007, 303, 305-329.	2.1	163
2	Theoretical and experimental modal analysis of the Guangzhou New TV Tower. <i>Engineering Structures</i> , 2011, 33, 3628-3646.	2.6	111
3	Identification of system parameters and input force from output only. <i>Mechanical Systems and Signal Processing</i> , 2007, 21, 2099-2111.	4.4	97
4	Structural damage detection using artificial bee colony algorithm with hybrid search strategy. <i>Swarm and Evolutionary Computation</i> , 2016, 28, 1-13.	4.5	93
5	Damage identification in plates using finite element model updating in time domain. <i>Journal of Sound and Vibration</i> , 2013, 332, 7018-7032.	2.1	59
6	An enhanced response sensitivity approach for structural damage identification: convergence and performance. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 111, 1231-1251.	1.5	57
7	Vibration analysis of multiple-stepped beams with the composite element model. <i>Journal of Sound and Vibration</i> , 2009, 322, 1070-1080.	2.1	46
8	Structural damage identification with uncertain modelling error and measurement noise by clustering based tree seeds algorithm. <i>Engineering Structures</i> , 2019, 185, 301-314.	2.6	45
9	A two-step approach for crack identification in beam. <i>Journal of Sound and Vibration</i> , 2013, 332, 282-293.	2.1	44
10	Identification of local damages in coupled beam systems from measured dynamic responses. <i>Journal of Sound and Vibration</i> , 2009, 326, 177-189.	2.1	30
11	Parameter identification of fractional order system using enhanced response sensitivity approach. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 67, 492-505.	1.7	29
12	Identification of nonlinear hysteretic parameters by enhanced response sensitivity approach. <i>International Journal of Non-Linear Mechanics</i> , 2017, 96, 1-11.	1.4	28
13	Nonlinear hysteretic parameter identification using an improved tree-seed algorithm. <i>Swarm and Evolutionary Computation</i> , 2019, 46, 69-83.	4.5	28
14	Hybrid sensitivity matrix for damage identification in axially functionally graded beams. <i>Applied Mathematical Modelling</i> , 2017, 41, 604-617.	2.2	27
15	On choice and effect of weight matrix for response sensitivity-based damage identification with measurement and model errors. <i>Mechanical Systems and Signal Processing</i> , 2019, 114, 1-24.	4.4	26
16	A two-step approach for damage Identification in plates. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 3018-3031.	1.5	25
17	Incremental response sensitivity approach for parameter identification of chaotic and hyperchaotic systems. <i>Nonlinear Dynamics</i> , 2017, 89, 153-167.	2.7	25
18	Bird mating optimizer for structural damage detection using a hybrid objective function. <i>Swarm and Evolutionary Computation</i> , 2017, 35, 41-52.	4.5	23

#	ARTICLE	IF	CITATIONS
19	Nonlinear wave forces on large-scale submerged tunnel element. <i>Marine Structures</i> , 2016, 45, 133-156.	1.6	18
20	Damage identification in plates based on the ratio of modal strain energy change and sensitivity analysis. <i>Inverse Problems in Science and Engineering</i> , 2016, 24, 265-283.	1.2	17
21	Simultaneous identification of structural stiffness and mass parameters based on Bare-bones Gaussian Tree Seeds Algorithm using time-domain data. <i>Applied Soft Computing Journal</i> , 2019, 83, 105602.	4.1	16
22	Parameter identification of nonlinear systems with time-delay from time-domain data. <i>Nonlinear Dynamics</i> , 2021, 104, 4045-4061.	2.7	16
23	Nonlinear breathing crack identification from time-domain sensitivity analysis. <i>Applied Mathematical Modelling</i> , 2020, 83, 30-45.	2.2	15
24	Frequency response-based damage identification in frames by minimum constitutive relation error and sparse regularization. <i>Journal of Sound and Vibration</i> , 2019, 443, 270-292.	2.1	11
25	Experimental investigation on use of regularization techniques and pre-post measurement changes for structural damage identification. <i>International Journal of Solids and Structures</i> , 2020, 185-186, 212-221.	1.3	11
26	Rapid parameter identification of linear time-delay system from noisy frequency domain data. <i>Applied Mathematical Modelling</i> , 2020, 83, 736-753.	2.2	10
27	A new semi-analytical technique for nonlinear systems based on response sensitivity analysis. <i>Nonlinear Dynamics</i> , 2021, 103, 1529-1551.	2.7	10
28	Parameter identification of nonlinear structural systems through frequency response sensitivity analysis. <i>Nonlinear Dynamics</i> , 2021, 104, 3975.	2.7	9
29	Blind separation of structural modes by compact-bandwidth regularization. <i>Mechanical Systems and Signal Processing</i> , 2019, 131, 288-316.	4.4	7
30	Convergence rates of harmonic balance method for periodic solution of smooth and non-smooth systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 99, 105826.	1.7	6
31	Residual-tuned analytical approximation for the limit cycle of aeroelastic systems with hysteresis nonlinearity. <i>Journal of Fluids and Structures</i> , 2022, 108, 103440.	1.5	6
32	Physical-based parametrization and local damage identification for frame-type structures using response sensitivity approach in time domain. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2412.	1.9	4
33	A simple and effective Measurement-Changes-Correction strategy for damage identification with aleatoric and epistemic model errors. <i>Structural Health Monitoring</i> , 2021, 20, 1196-1220.	4.3	4
34	Parameter Identification Method for Nonsmooth Aeroelastic System. <i>AIAA Journal</i> , 2022, 60, 5357-5371.	1.5	3
35	Nonlinear hysteretic parameter identification using improved artificial bee colony algorithm. <i>Advances in Structural Engineering</i> , 0, , 136943322110204.	1.2	1
36	Model-calibration-free damage identification of shear structures by measurement changes correction and sparse regularization. <i>Structures</i> , 2022, 37, 255-266.	1.7	1

#	ARTICLE	IF	CITATIONS
37	Residual stress identification in thin plates based on modal data and sensitivity analysis. International Journal of Solids and Structures, 2022, 236-237, 111350.	1.3	0
38	Sensitivity-based nonlinear restoring force identification of multistable piezoelectric energy harvesters. European Physical Journal Plus, 2022, 137, 1.	1.2	0