

Masoud Sanayei

List of Publications by Year in descending order

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73
papers

2,115
citations

236833

25
h-index

233338

45
g-index

75
all docs

75
docs citations

75
times ranked

1056
citing authors

#	ARTICLE	IF	CITATIONS
1	Damage assessment of structures using static test data. AIAA Journal, 1991, 29, 1174-1179.	1.5	171
2	Parameter Estimation of Structures from Static Strain Measurements.â€fI: Formulation. Journal of Structural Engineering, 1996, 122, 555-562.	1.7	142
3	Structural model updating using frequency response function and quasi-linear sensitivity equation. Journal of Sound and Vibration, 2009, 326, 557-573.	2.1	117
4	Instrumentation, Nondestructive Testing, and Finite-Element Model Updating for Bridge Evaluation Using Strain Measurements. Journal of Bridge Engineering, 2012, 17, 130-138.	1.4	114
5	Structural Model Updating Using Experimental Static Measurements. Journal of Structural Engineering, 1997, 123, 792-798.	1.7	105
6	Train-induced field vibration measurements of ground and over-track buildings. Science of the Total Environment, 2017, 575, 1339-1351.	3.9	104
7	Measurement of building foundation and ground-borne vibrations due to surface trains and subways. Engineering Structures, 2013, 53, 102-111.	2.6	103
8	Measurement and prediction of train-induced vibrations in a full-scale building. Engineering Structures, 2014, 77, 119-128.	2.6	82
9	Parameter Estimation of Structures from Static Strain Measurements.â€fII: Error Sensitivity Analysis. Journal of Structural Engineering, 1996, 122, 563-572.	1.7	69
10	Structural Element Stiffness Identification from Static Test Data. Journal of Engineering Mechanics - ASCE, 1991, 117, 1021-1036.	1.6	66
11	Structural finite element model updating using transfer function data. Computers and Structures, 2010, 88, 54-64.	2.4	66
12	Parameter Estimation Incorporating Modal Data and Boundary Conditions. Journal of Structural Engineering, 1999, 125, 1048-1055.	1.7	65
13	Automated finite element model updating of a scale bridge model using measured static and modal test data. Engineering Structures, 2015, 102, 66-79.	2.6	64
14	Bridge Damage Identification Using Artificial Neural Networks. Journal of Bridge Engineering, 2018, 23, .	1.4	58
15	Significance of Modeling Error in Structural Parameter Estimation. Computer-Aided Civil and Infrastructure Engineering, 2001, 16, 12-27.	6.3	55
16	Experimental study of train-induced vibration in over-track buildings in a metro depot. Engineering Structures, 2019, 198, 109473.	2.6	49
17	Selection of noisy measurement locations for error reduction in static parameter identification. AIAA Journal, 1992, 30, 2299-2309.	1.5	46
18	Finite Element Model Updating Using Frequency Response Function of Incomplete Strain Data. AIAA Journal, 2010, 48, 1420-1433.	1.5	46

#	ARTICLE	IF	CITATIONS
19	Impedance model for estimating train-induced building vibrations. <i>Engineering Structures</i> , 2018, 172, 739-750.	2.6	44
20	Prediction and Mitigation of Building Floor Vibrations Using a Blocking Floor. <i>Journal of Structural Engineering</i> , 2012, 138, 1181-1192.	1.7	36
21	Multiresponse Parameter Estimation for Finite-Element Model Updating Using Nondestructive Test Data. <i>Journal of Structural Engineering</i> , 2007, 133, 1067-1079.	1.7	33
22	Objective Load Rating of a Steel-Girder Bridge Using Structural Modeling and Health Monitoring. <i>Journal of Structural Engineering</i> , 2013, 139, 1771-1779.	1.7	32
23	Damage Localization and Finite-Element Model Updating Using Multiresponse NDT Data. <i>Journal of Bridge Engineering</i> , 2006, 11, 688-698.	1.4	28
24	Statistical Bridge Signatures. <i>Journal of Bridge Engineering</i> , 2014, 19, .	1.4	27
25	Load Rating of a Fully Instrumented Bridge: Comparison of LRFR Approaches. <i>Journal of Performance of Constructed Facilities</i> , 2016, 30, 04015019.	1.0	27
26	Statistical bridge damage detection using girder distribution factors. <i>Engineering Structures</i> , 2016, 109, 139-151.	2.6	23
27	Quasi-linear sensitivity-based structural model updating using experimental transfer functions. <i>Structural Health Monitoring</i> , 2012, 11, 656-670.	4.3	22
28	Automated finite element model updating of full-scale structures with PARAmeter Identification System (PARIS). <i>Advances in Engineering Software</i> , 2014, 67, 99-110.	1.8	21
29	Train-induced floor vibration and structure-borne noise predictions in a low-rise over-track building. <i>Engineering Structures</i> , 2022, 255, 113914.	2.6	21
30	Finite element model updating of the UCF grid benchmark using measured frequency response functions. <i>Mechanical Systems and Signal Processing</i> , 2014, 46, 179-190.	4.4	20
31	Model Updating of a Concrete Beam with Extensive Distributed Damage Using Experimental Frequency Response Function. <i>Journal of Bridge Engineering</i> , 2016, 21, .	1.4	19
32	Efficient impedance model for the estimation of train-induced vibrations in over-track buildings. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 924-942.	1.5	19
33	Identification of Structural Element Stiffnesses from Incomplete Static Test Data. , 0, , .		18
34	Bridge Fatigue Service-Life Estimation Using Operational Strain Measurements. <i>Journal of Bridge Engineering</i> , 2016, 21, .	1.4	18
35	Finite element model updating using frequency response functions and numerical sensitivities. <i>Structural Control and Health Monitoring</i> , 2013, 21, n/a-n/a.	1.9	17
36	Capacity analysis of gusset plate connections using the Whitmore, block shear, global section shear, and finite element methods. <i>Engineering Structures</i> , 2013, 48, 543-557.	2.6	16

#	ARTICLE	IF	CITATIONS
37	Full-Scale Bridge Finite-Element Model Calibration Using Measured Frequency-Response Functions. Journal of Bridge Engineering, 2015, 20, .	1.4	15
38	Structural model updating of an in-service bridge using dynamic data. Structural Control and Health Monitoring, 2015, 22, 1265-1281.	1.9	15
39	Model-Class Selection Using Clustering and Classification for Structural Identification and Prediction. Journal of Computing in Civil Engineering, 2021, 35, 04020051.	2.5	14
40	Strain predictions at unmeasured locations of a substructure using sparse response-only vibration measurements. Journal of Civil Structural Health Monitoring, 2021, 11, 1113-1136.	2.0	12
41	Sensor Placement for Parameter Estimation of Structures Using Fisher Information Matrix. , 2002, , 385.		8
42	Foundation identification using dynamic strain and acceleration measurements. Engineering Structures, 2020, 208, 109811.	2.6	8
43	Steel Bridge Service Life Prediction Using Bootstrap Method. International Journal of Civil Engineering, 2017, 15, 51-61.	0.9	7
44	<title>Determination of bridge foundation type from structural response measurements</title>. , 1998, , .		6
45	Integrated Superstructure-Substructure Load Rating for Bridges with Foundation Movements. Journal of Bridge Engineering, 2018, 23, 04018022.	1.4	6
46	Nondestructive testing for design verification of Boston's Central Artery underpinning frames and connections. Bridge Structures, 2008, 4, 87-98.	0.2	5
47	Experimental Validation of Building Vibration Propagation Using a Four-Story Laboratory Model. , 2008, , .		5
48	Predicting Train-Induced Vibrations in Multi-Story Buildings. , 2008, , .		5
49	Mitigation of Train-Induced Floor Vibrations in Multi-Story Buildings Using a Blocking Floor. , 2010, , .		5
50	Foundation Reuse in Accelerated Bridge Construction. Journal of Bridge Engineering, 2019, 24, 05019010.	1.4	5
51	Multiaxial fatigue assessment of complex steel connections: A case study of a vertical-lift gussetless truss bridge. Engineering Structures, 2021, 235, 111996.	2.6	5
52	PRACTICAL ISSUES IN THE APPLICATION OF STRUCTURAL IDENTIFICATION. , 1999, , 193-206.		4
53	Bridge Deck Finite Element Model Updating Using Multi-Response NDT Data. , 2005, , 1.		3
54	Finite Element Model Updating of Scale Bridge Model Using Measured Modal Response Data. , 2009, , .		3

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55	State Estimation for Prediction of Fatigue Life for a Rollercoaster Connection Subjected to Operational Multiaxial Nonproportional Loading. Journal of Structural Engineering, 2021, 147, .	1.7	3
56	More insight on function-weighted frequency response function sensitivity method for analytical model updating. Journal of Sound and Vibration, 2021, 509, 116143.	2.1	3
57	Structural Parameter Estimation Using Modal Responses and Utilizing Genetic Algorithm. , 2000, , 1.		2
58	Evaluation of highway bridge strength considering parapets. Bridge Structures, 2005, 1, 273-280.	0.2	2
59	Determining the Capacity of Reused Bridge Foundations from Limited Information. Journal of Bridge Engineering, 2018, 23, 04018090.	1.4	2
60	Automated operational modal analysis based on long-term records: A case study of Milad Tower structural health monitoring. Structural Control and Health Monitoring, 2022, 29, .	1.9	2
61	A Portable Real Time Data Acquisition System for the Comparison of Floor Vibration Data with AISC Design Guide 11 Estimates. , 2006, , 1.		1
62	Parameter Identification System (PARIS) for Automated Finite Element Model Updating of Full-Scale Structures. , 2013, , .		1
63	An Impedance Model Approach to Predicting Train-Induced Vibrations in Buildings. , 2015, , .		1
64	Discussion on: Function-weighted frequency response function sensitivity method for analytical model updating, by R. M. Lin. Journal of Sound and Vibration, 2018, 432, 699-705.	2.1	1
65	Comparison between a Linear Regression and an Artificial Neural Network Model to Detect and Localize Damage in the Powder Mill Bridge. Transportation Research Record, 2020, 2674, 394-404.	1.0	1
66	Methods of Monitoring and Evaluating Structural Performance. Journal of Bridge Engineering, 2006, 11, 670-671.	1.4	0
67	Closure to "Damage Localization and Finite-Element Model Updating Using Multiresponse NDT Data" by Masoud Sanayei, Erin Santini Bell, Chitra N. Javdekar, Jennifer L. Edemann, and Eugene Slavsky. Journal of Bridge Engineering, 2007, 12, 815-815.	1.4	0
68	Structural Identification for Selection, Application, and Calibration of Physics-Based Models. , 2013, , 78-112.		0
69	Bridge Foundation Stiffness Identification. , 2016, , .		0
70	Real-Time Distributed Cloud Computing Architecture for Structural Health Monitoring. , 2019, , .		0
71	CONTROLLING MODELING ERROR IMPACT IN STRUCTURAL PARAMETER ESTIMATION. , 2001, , .		0
72	Reliability Analysis of Existing Bridge Foundations for Reuse. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 61-64.	0.3	0

#	ARTICLE	IF	CITATIONS
73	What Rollercoasters Can Teach Us About Fatigue Life of Bridge Connections. Conference Proceedings of the Society for Experimental Mechanics, 2021, , 5-13.	0.3	0