

# Hamed Ebrahimian

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

856  
citations

623734

14  
h-index

552781

26  
g-index

30  
all docs

30  
docs citations

30  
times ranked

468  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extended Kalman filter for material parameter estimation in nonlinear structural finite element models using direct differentiation method. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 1495-1522.	4.4	94
2	Nonlinear finite element model updating for damage identification of civil structures using batch Bayesian estimation. <i>Mechanical Systems and Signal Processing</i> , 2017, 84, 194-222.	8.0	90
3	Material Parameter Identification in Distributed Plasticity FE Models of Frame-Type Structures Using Nonlinear Stochastic Filtering. <i>Journal of Engineering Mechanics - ASCE</i> , 2015, 141, .	2.9	86
4	Bayesian nonlinear structural FE model and seismic input identification for damage assessment of civil structures. <i>Mechanical Systems and Signal Processing</i> , 2017, 93, 661-687.	8.0	74
5	Full-Scale Structural and Nonstructural Building System Performance during Earthquakes: Part I "Specimen Description, Test Protocol, and Structural Response. <i>Earthquake Spectra</i> , 2016, 32, 737-770.	3.1	72
6	Adaptive Kalman filters for nonlinear finite element model updating. <i>Mechanical Systems and Signal Processing</i> , 2020, 143, 106837.	8.0	68
7	Bayesian optimal estimation for output-only nonlinear system and damage identification of civil structures. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2128.	4.0	64
8	Full-Scale Structural and Nonstructural Building System Performance during Earthquakes: Part II "NCS Damage States. <i>Earthquake Spectra</i> , 2016, 32, 771-794.	3.1	51
9	Performance comparison of Kalman~based filters for nonlinear structural finite element model updating. <i>Journal of Sound and Vibration</i> , 2019, 438, 520-542.	3.9	44
10	System identification of a full~scale five~story reinforced concrete building tested on the NEES~UCSD shake table. <i>Structural Control and Health Monitoring</i> , 2016, 23, 535-559.	4.0	36
11	Influence of the construction process and nonstructural components on the modal properties of a five~story building. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 1063-1084.	4.4	25
12	Mechanics~based model updating for identification and virtual sensing of an offshore wind turbine using sparse measurements. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2647.	4.0	24
13	Information-Theoretic Approach for Identifiability Assessment of Nonlinear Structural Finite-Element Models. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, 04019039.	2.9	17
14	A Computationally Efficient Method for Updating Fuel Inputs for Wildfire Behavior Models Using Sentinel Imagery and Random Forest Classification. <i>Remote Sensing</i> , 2022, 14, 1447.	4.0	14
15	Bridge Digital Twinning Using an Output-Only Bayesian Model Updating Method and Recorded Seismic Measurements. <i>Sensors</i> , 2022, 22, 1278.	3.8	12
16	Parametric estimation of dispersive viscoelastic layered media with application to structural health monitoring. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 105, 204-223.	3.8	11
17	Seismic response analysis and modal identification of a full-scale five-story base-isolated building tested on the NEES@UCSD shake table. <i>Engineering Structures</i> , 2021, 238, 112087.	5.3	11
18	Tracking Wildfires With Weather Radars. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	10

#	ARTICLE	IF	CITATIONS
19	Output-only model updating of adjacent buildings from sparse seismic response records and identification of their common excitation. <i>Structural Control and Health Monitoring</i> , 2020, 27, e2597.	4.0	9
20	Pretest Nonlinear Finite-Element Modeling and Response Simulation of a Full-Scale 5-Story Reinforced Concrete Building Tested on the NEES-UCSD Shake Table. <i>Journal of Structural Engineering</i> , 2018, 144, .	3.4	7
21	Statistical analysis of the modal properties of a seismically-damaged five-story RC building identified using ambient vibration data. <i>Journal of Building Engineering</i> , 2022, 52, 104411.	3.4	5
22	Adaptive Bayesian Inference Framework for Joint Model and Noise Identification. <i>Journal of Engineering Mechanics - ASCE</i> , 2022, 148, .	2.9	4
23	A Nonlinear Model Inversion Method for Joint System Parameter, Noise, and Input Identification of Civil Structures. <i>Procedia Engineering</i> , 2017, 199, 924-929.	1.2	3
24	Structural Identification for Dynamic Strain Estimation in Wind Turbine Towers. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019, , 239-245.	0.5	2
25	Experimental Study of Mechanical Connectors for Application in Rebar Cages. , 2022, , .		2
26	Behavior Study of Commercial Polyurea under Monotonic, Rate Dependent, Cyclic, and Fatigue Tensile Loading for Potential Structural Applications. <i>Polymers</i> , 2022, 14, 1878.	4.5	2
27	Output-only identification of civil structures using nonlinear finite element model updating. , 2015, , .		1