Zuo-Cai Wang

List of Publications by Year
in descending order

22 papers	318 citations	933447 10 h-index	839539 18 g-index
22 all docs	22 docs citations	22 times ranked	248 citing authors

#	Article	IF	Citations
1	A synchrosqueezed wavelet transform enhanced by extended analytical mode decomposition method for dynamic signal reconstruction. Journal of Sound and Vibration, 2013, 332, 6016-6028.	3.9	44
2	Analytical mode decomposition of time series with decaying amplitudes and overlapping instantaneous frequencies. Smart Materials and Structures, 2013, 22, 095003.	3.5	35
3	Deflection Estimation of Bending Beam Structures Using Fiber Bragg Grating Strain Sensors. Advances in Structural Engineering, 2015, 18, 395-403.	2.4	30
4	Bayesian based nonlinear model updating using instantaneous characteristics of structural dynamic responses. Engineering Structures, 2019, 183, 459-474.	5.3	30
5	Nonlinear structural model updating based on instantaneous frequencies and amplitudes of the decomposed dynamic responses. Engineering Structures, 2015, 100, 189-200.	5.3	29
6	Time–frequency analysis and applications in time-varying/nonlinear structural systems: A state-of-the-art review. Advances in Structural Engineering, 2018, 21, 1562-1584.	2.4	29
7	Nonlinear structural joint model updating based on instantaneous characteristics of dynamic responses. Mechanical Systems and Signal Processing, 2016, 76-77, 476-496.	8.0	27
8	Hilbert low-pass filter of non-stationary time sequence using analytical mode decomposition. JVC/Journal of Vibration and Control, 2017, 23, 2444-2469.	2.6	16
9	Time-Varying Linear and Nonlinear Structural Identification with Analytical Mode Decomposition and Hilbert Transform. Journal of Structural Engineering, 2013, 139, .	3.4	13
10	Damage detection of nonlinear structures with analytical mode decomposition and Hilbert transform. Smart Structures and Systems, 2015, 15, 1-13.	1.9	12
11	Markov Chain Monte Carlo-based Bayesian method for nonlinear stochastic model updating. Journal of Sound and Vibration, 2022, 520, 116595.	3.9	11
12	Grouting Quality Evaluation in Post-Tensioning Tendon Ducts Using Wavelet Packet Transform and Bayes Classifier. Sensors, 2019, 19, 5372.	3.8	7
13	Structural dynamic nonlinear model and parameter identification based on the stiffness and damping marginal curves. Structural Control and Health Monitoring, 2020, 27, e2540.	4.0	7
14	Discrete analytical mode decomposition with automatic bisecting frequency selection for structural dynamic response analysis and modal identification. Journal of Sound and Vibration, 2020, 484, 115520.	3.9	6
15	Structural Modal Parameter Identification from Forced Vibration with Analytical Mode Decomposition. Advances in Structural Engineering, 2014, 17, 1129-1143.	2.4	4
16	Nonlinear joint model updating using static responses. Advances in Mechanical Engineering, 2016, 8, 168781401668265.	1.6	4
17	A Generalized Demodulation and Hilbert Transform Based Signal Decomposition Method. Shock and Vibration, 2017, 2017, 1-12.	0.6	4
18	Nonlinear joint model updating of strong column-weak beam type frames based on instantaneous characteristics of the responses under earthquake excitations. Advances in Structural Engineering, 2017, 20, 682-693.	2.4	3

#	Article	IF	Citations
19	Crack detection using integrated signals from dynamic responses of girder bridges. Journal of Central South University, 2013, 20, 1759-1766.	3.0	2
20	Differential settlement effect on reliability of bridge superstructure and implementation in Load and Resistance Factor Design specification. Advances in Structural Engineering, 2016, 19, 1533-1546.	2.4	2
21	Hilbert square demodulation and error mitigation of the measured nonlinear structural dynamic response. Mechanical Systems and Signal Processing, 2021, 160, 107935.	8.0	2
22	Strain modes identification using cross-correlation function of measured dynamic strain. Advances in Structural Engineering, 2017, 20, 96-104.	2.4	1