Shancheng Cao

List of Publications by Year
in descending order

17 papers	**162** citations	1162367 **8** h-index	1199166 **12** g-index
17 all docs	**17** docs citations	**17** times ranked	**131** citing authors

#	Article	IF	Citations
1	Robust multi-damage localisation using common eigenvector analysis and covariance matrix changes. Mechanical Systems and Signal Processing, 2018, 111, 663-677.	4.4	19
2	Baseline-free adaptive damage localization of plate-type structures by using robust PCA and Gaussian smoothing. Mechanical Systems and Signal Processing, 2019, 122, 232-246.	4.4	18
3	Localization of breathing cracks in stepped rotors using superâ€harmonic characteristic deflection shapes based on singular value decomposition in frequency domain. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1825-1837.	1.7	15
4	Modal Strain Energy-Based Model Updating Method for Damage Identification on Beam-Like Structures. Journal of Structural Engineering, 2020, 146, .	1.7	15
5	Robust structural damage detection and localization based on joint approximate diagonalization technique in frequency domain. Smart Materials and Structures, 2017, 26, 015005.	1.8	13
6	Time-domain Spectral Finite Element Method for Wave Propagation Analysis in Structures with Breathing Cracks. Acta Mechanica Solida Sinica, 2020, 33, 812-822.	1.0	13
7	Baseline-free multidamage identification in plate-like structures by using multiscale approach and low-rank modelling. Structural Control and Health Monitoring, 2019, 26, e2293.	1.9	12
8	Robust damage localization in plate-type structures by using an enhanced robust principal component analysis and data fusion technique. Mechanical Systems and Signal Processing, 2022, 162, 108091.	4.4	9
9	Dynamic Responses of a Four-Span Continuous Plate Structure Subjected to Moving Cars With Time-Varying Speeds. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .	1.0	8
10	Modal analysis and damage localization in plate-type structures via TDD and PE methods based on the data of an integrated highspeed camera system. Mechanical Systems and Signal Processing, 2022, 178, 109309.	4.4	8
11	Robust multi-damage localization in plate-type structures via adaptive denoising and data fusion based on full-field vibration measurements. Measurement: Journal of the International Measurement Confederation, 2021, 178, 109393.	2.5	7
12	Output-Only Damage Identification Using Enhanced Structural Characteristic Deflection Shapes and Adaptive Gapped Smoothing Method. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .	1.0	6
13	Crack localization in stepped rotors based on Bayesian fusion of multiscale superharmonic characteristic deflection shapes. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 2200-2213.	1.7	6
14	Multicrack Localization in Rotors Based on Proper Orthogonal Decomposition Using Fractal Dimension and Gapped Smoothing Method. Shock and Vibration, 2016, 2016, 1-17.	0.3	5
15	Adaptive damage localization based on locally perturbed dynamic equilibrium and hierarchical clustering. Smart Materials and Structures, 2019, 28, 075003.	1.8	5
16	Robust Baseline-Free Damage Localization by Using Locally Perturbed Dynamic Equilibrium and Data Fusion Technique. Sensors, 2020, 20, 5964.	2.1	2
17	Baseline-Free Adaptive Crack Localization for Operating Stepped Rotors Based on Multiscale Data Fusion. Sensors, 2020, 20, 5693.	2.1	1