

Wang-Ji Yan

List of Publications by Year in descending order

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26
papers

856
citations

567281

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26
g-index

26
all docs

26
docs citations

26
times ranked

509
citing authors

#	ARTICLE	IF	CITATIONS
1	Operational Modal Parameter Identification from Power Spectrum Density Transmissibility. Computer-Aided Civil and Infrastructure Engineering, 2012, 27, 202-217.	9.8	122
2	Transmissibility-based system identification for structural health Monitoring: Fundamentals, approaches, and applications. Mechanical Systems and Signal Processing, 2019, 117, 453-482.	8.0	112
3	A novel Bayesian approach for structural model updating utilizing statistical modal information from multiple setups. Structural Safety, 2015, 52, 260-271.	5.3	86
4	An Enhanced Power Spectral Density Transmissibility (EPSDT) approach for operational modal analysis: Theoretical and experimental investigation. Engineering Structures, 2015, 102, 108-119.	5.3	68
5	Statistic structural damage detection based on the closed-form of element modal strain energy sensitivity. Mechanical Systems and Signal Processing, 2012, 28, 183-194.	8.0	67
6	A two-stage fast Bayesian spectral density approach for ambient modal analysis. Part I: Posterior most probable value and uncertainty. Mechanical Systems and Signal Processing, 2015, 54-55, 139-155.	8.0	51
7	Damage Detection Method Based on Element Modal Strain Energy Sensitivity. Advances in Structural Engineering, 2010, 13, 1075-1088.	2.4	48
8	Bayesian inference for damage identification based on analytical probabilistic model of scattering coefficient estimators and ultrafast wave scattering simulation scheme. Journal of Sound and Vibration, 2020, 468, 115083.	3.9	38
9	A two-stage fast Bayesian spectral density approach for ambient modal analysis. Part II: Mode shape assembly and case studies. Mechanical Systems and Signal Processing, 2015, 54-55, 156-171.	8.0	33
10	A direct algebraic method to calculate the sensitivity of element modal strain energy. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 694-710.	2.1	28
11	Use of Continuous-Wavelet Transmissibility for Structural Operational Modal Analysis. Journal of Structural Engineering, 2013, 139, 1444-1456.	3.4	27
12	Circularly-symmetric complex normal ratio distribution for scalar transmissibility functions. Part I: Fundamentals. Mechanical Systems and Signal Processing, 2016, 80, 58-77.	8.0	22
13	A fast Bayesian inference scheme for identification of local structural properties of layered composites based on wave and finite element-assisted metamodeling strategy and ultrasound measurements. Mechanical Systems and Signal Processing, 2020, 143, 106802.	8.0	21
14	An analytical investigation into the propagation properties of uncertainty in a two-stage fast Bayesian spectral density approach for ambient modal analysis. Mechanical Systems and Signal Processing, 2019, 118, 503-533.	8.0	19
15	Circularly-symmetric complex normal ratio distribution for scalar transmissibility functions. Part II: Probabilistic model and validation. Mechanical Systems and Signal Processing, 2016, 80, 78-98.	8.0	16
16	A new probabilistic frequency-domain approach for influence line extraction from static transmissibility measurements under unknown moving loads. Engineering Structures, 2020, 216, 110625.	5.3	16
17	Non-probabilistic uncertainty quantification for dynamic characterization functions using complex ratio interval arithmetic operation of multidimensional parallelepiped model. Mechanical Systems and Signal Processing, 2021, 156, 107559.	8.0	15
18	Application of transmissibility matrix and random matrix to Bayesian system identification with response measurements only. Smart Materials and Structures, 2016, 25, 105017.	3.5	13

#	ARTICLE	IF	CITATIONS
19	Circularly-symmetric complex normal ratio distribution for scalar transmissibility functions. Part III: Application to statistical modal analysis. <i>Mechanical Systems and Signal Processing</i> , 2018, 98, 1000-1019.	8.0	13
20	Generalized Proper Complex Gaussian Ratio Distribution and Its Application to Statistical Inference for Frequency Response Functions. <i>Journal of Engineering Mechanics - ASCE</i> , 2018, 144, .	2.9	10
21	Practical formulas towards distortional buckling failure analysis for steel-concrete composite beams. <i>Structural Design of Tall and Special Buildings</i> , 2016, 25, 1055-1072.	1.9	9
22	Statistical modeling for fast Fourier transform coefficients of operational vibration measurements with non-Gaussianity using complex-valued t distribution. <i>Mechanical Systems and Signal Processing</i> , 2019, 132, 293-314.	8.0	7
23	Operational Modal Parameter Identification Based on Covariance-Driven Continuous Wavelet Transform and Singular Value Decomposition. <i>Advances in Structural Engineering</i> , 2013, 16, 579-591.	2.4	6
24	A unified scheme to solving arbitrary complex-valued ratio distribution with application to statistical inference for raw frequency response functions and transmissibility functions. <i>Mechanical Systems and Signal Processing</i> , 2020, 145, 106886.	8.0	4
25	Monitoring gross vehicle weight with a probabilistic and influence line-free bridge weight-in-motion scheme based on a transmissibility-like index. <i>Mechanical Systems and Signal Processing</i> , 2022, 177, 109133.	8.0	3
26	Analytical investigation into error propagation of power spectral density transmissibility (PSDT) based on coherence function. <i>Journal of Sound and Vibration</i> , 2021, 514, 116429.	3.9	2