

Wang-Ji Yan

List of Publications by Year in descending order

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26
papers

856
citations

567281

15
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552781

26
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all docs

26
docs citations

26
times ranked

509
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Non-probabilistic uncertainty quantification for dynamic characterization functions using complex ratio interval arithmetic operation of multidimensional parallelepiped model. <i>Mechanical Systems and Signal Processing</i> , 2021, 156, 107559.	8.0	15
3	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
4	Bayesian inference for damage identification based on analytical probabilistic model of scattering coefficient estimators and ultrafast wave scattering simulation scheme. <i>Journal of Sound and Vibration</i> , 2020, 468, 115083.	3.9	38
5	A new probabilistic frequency-domain approach for influence line extraction from static transmissibility measurements under unknown moving loads. <i>Engineering Structures</i> , 2020, 216, 110625.	5.3	16
6	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
7	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. <i>Mechanical Systems and Signal Processing</i> , 2020, 143, 106802.	8.0	21
8	Transmissibility-based system identification for structural health Monitoring: Fundamentals, approaches, and applications. <i>Mechanical Systems and Signal Processing</i> , 2019, 117, 453-482.	8.0	112
9	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
10	An analytical investigation into the propagation properties of uncertainty in a two-stage fast Bayesian spectral density approach for ambient modal analysis. <i>Mechanical Systems and Signal Processing</i> , 2019, 118, 503-533.	8.0	19
11	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
12	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
13	Application of transmissibility matrix and random matrix to Bayesian system identification with response measurements only. <i>Smart Materials and Structures</i> , 2016, 25, 105017.	3.5	13
14	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
15	Circularly-symmetric complex normal ratio distribution for scalar transmissibility functions. Part II: Probabilistic model and validation. <i>Mechanical Systems and Signal Processing</i> , 2016, 80, 78-98.	8.0	16
16	Circularly-symmetric complex normal ratio distribution for scalar transmissibility functions. Part I: Fundamentals. <i>Mechanical Systems and Signal Processing</i> , 2016, 80, 58-77.	8.0	22
17	An Enhanced Power Spectral Density Transmissibility (EPSDT) approach for operational modal analysis: Theoretical and experimental investigation. <i>Engineering Structures</i> , 2015, 102, 108-119.	5.3	68
18	A two-stage fast Bayesian spectral density approach for ambient modal analysis. Part I: Posterior most probable value and uncertainty. <i>Mechanical Systems and Signal Processing</i> , 2015, 54-55, 139-155.	8.0	51

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19	A novel Bayesian approach for structural model updating utilizing statistical modal information from multiple setups. <i>Structural Safety</i> , 2015, 52, 260-271.	5.3	86
20	A two-stage fast Bayesian spectral density approach for ambient modal analysis. Part II: Mode shape assembly and case studies. <i>Mechanical Systems and Signal Processing</i> , 2015, 54-55, 156-171.	8.0	33
21	Use of Continuous-Wavelet Transmissibility for Structural Operational Modal Analysis. <i>Journal of Structural Engineering</i> , 2013, 139, 1444-1456.	3.4	27
22	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
23	Statistic structural damage detection based on the closed-form of element modal strain energy sensitivity. <i>Mechanical Systems and Signal Processing</i> , 2012, 28, 183-194.	8.0	67
24	Operational Modal Parameter Identification from Power Spectrum Density Transmissibility. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2012, 27, 202-217.	9.8	122
25	A direct algebraic method to calculate the sensitivity of element modal strain energy. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011, 27, 694-710.	2.1	28
26	Damage Detection Method Based on Element Modal Strain Energy Sensitivity. <i>Advances in Structural Engineering</i> , 2010, 13, 1075-1088.	2.4	48