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List of PR Articles by Year in descending order

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167

PR articles

7,386

PR citations

36526

45

PR h-index

41359

83

g-index

208

documents

9045

doc citations

35639

49

h-index

5152

citing authors

#	ARTICLE	IF	PR CITATIONS
1	Physics-based digital twin updating and twin-based explainable crack identification of mechanical lap joint. <i>Reliability Engineering and System Safety</i> , 2025, 253, 110515.	10.5	16
2	FASER: Fault-affected signal energy ratio for fault diagnosis of gearboxes under repetitive operating conditions. <i>Expert Systems With Applications</i> , 2024, 238, 122078.	7.5	18
3	Peripheral artery disease diagnosis based on deep learning-enabled analysis of non-invasive arterial pulse waveforms. <i>Computers in Biology and Medicine</i> , 2024, 168, 107813.	6.5	12
4	Self-supervised feature learning for motor fault diagnosis under various torque conditions. <i>Knowledge-Based Systems</i> , 2024, 288, 111465.	7.2	17
5	Revolution and peak discrepancy-based domain alignment method for bearing fault diagnosis under very low-speed conditions. <i>Expert Systems With Applications</i> , 2024, 251, 124084.	7.5	12
6	PCDC: prototype-assisted dual-contrastive learning with depthwise separable convolutional neural network for few-shot fault diagnosis of permanent magnet synchronous motors under new operating conditions. <i>Journal of Computational Design and Engineering</i> , 2024, 11, 337-358.	3.2	4
7	Gradient Alignment based Partial Domain Adaptation (GAPDA) using a domain knowledge filter for fault diagnosis of bearing. <i>Reliability Engineering and System Safety</i> , 2024, 250, 110293.	10.5	18
8	Frequency-focused sound data generator for fault diagnosis in industrial robots. <i>Journal of Computational Design and Engineering</i> , 2024, 11, 234-248.	3.2	6
9	Longitudinal wave localization using a one-dimensional phononic crystal with differently patterned double defects. <i>International Journal of Mechanical Sciences</i> , 2023, 237, 107783.	8.9	24
10	PERL: Probabilistic energy-ratio-based localization for boiler tube leaks using descriptors of acoustic emission signals. <i>Reliability Engineering and System Safety</i> , 2023, 230, 108923.	10.5	12
11	Opt-TCAE: Optimal temporal convolutional auto-encoder for boiler tube leakage detection in a thermal power plant using multi-sensor data. <i>Expert Systems With Applications</i> , 2023, 215, 119377.	7.5	14
12	Double piezoelectric defects in phononic crystals for ultrasonic transducers. <i>Journal Physics D: Applied Physics</i> , 2023, 56, 074002.	3.0	16
13	Probabilistic Framework for Reliable Optimal Design of Gearboxes in General-Purpose Industrial Robots Considering Random Use Conditions. <i>Journal of Computational Design and Engineering</i> , 2023, , .	3.2	0
14	MPARN: multi-scale path attention residual network for fault diagnosis of rotating machines. <i>Journal of Computational Design and Engineering</i> , 2023, 10, 860-872.	3.2	24
15	Deep-learning-based fault detection and recipe optimization for a plastic injection molding process under the class-imbalance problem. <i>Journal of Computational Design and Engineering</i> , 2023, 10, 694-710.	3.2	9
16	Statistical prior modeling with radius-uniform distribution for a correlation hyperparameter in bayesian calibration. <i>Structural and Multidisciplinary Optimization</i> , 2023, 66, .	3.4	0
17	A new initial point search algorithm for bayesian calibration with insufficient statistical information: greedy stochastic section search. <i>Structural and Multidisciplinary Optimization</i> , 2023, 66, .	3.4	0
18	Frequency-learning generative network (FLGN) to generate vibration signals of variable lengths. <i>Expert Systems With Applications</i> , 2023, 227, 120255.	7.5	7

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19	Deep-learning-based framework for inverse design of a defective phononic crystal for narrowband filtering. <i>International Journal of Mechanical Sciences</i> , 2023, 255, 108474.	8.9	46
20	Robust deep learning-based fault detection of planetary gearbox using enhanced health data map under domain shift problem. <i>Journal of Computational Design and Engineering</i> , 2023, 10, 1677-1693.	3.2	7
21	Multi-head de-noising autoencoder-based multi-task model for fault diagnosis of rolling element bearings under various speed conditions. <i>Journal of Computational Design and Engineering</i> , 2023, 10, 1804-1820.	3.2	12
22	Uncertainty analysis of stack pressure in EV battery module systems using a phenomenological modeling approach. <i>Journal of Energy Storage</i> , 2023, 73, 108948.	8.8	10
23	Defect-Band Splitting of a One-Dimensional Phononic Crystal with Double Defects for Bending-Wave Excitation. <i>Mathematics</i> , 2023, 11, 3852.	2.1	4
24	Reliability-based design optimization of a pouch battery module using Gaussian process modeling in the presence of cell swelling. <i>Structural and Multidisciplinary Optimization</i> , 2023, 66, .	3.4	9
25	A Domain Adaptation with Semantic Clustering (DASC) method for fault diagnosis of rotating machinery. <i>ISA Transactions</i> , 2022, 120, 372-382.	5.7	59
26	Designing a phononic crystal with a defect for target frequency matching using an analytical approach. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 2454-2467.	3.8	18
27	Learning from even a weak teacher: Bridging rule-based Duval method and a deep neural network for power transformer fault diagnosis. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 136, 107619.	5.1	23
28	A methodology for sensor number and placement optimization for vibration-based damage detection of composite structures under model uncertainty. <i>Composite Structures</i> , 2022, 279, 114863.	6.3	59
29	Fault diagnosis of a planetary gearbox by D norm-based time synchronous averaging (DTSA) with roughly estimated phase information under an encoder-less operating condition. <i>Journal of Sound and Vibration</i> , 2022, 520, 116546.	4.3	27
30	A new auto-encoder-based dynamic threshold to reduce false alarm rate for anomaly detection of steam turbines. <i>Expert Systems With Applications</i> , 2022, 189, 116094.	7.5	58
31	Asymmetric inter-intra domain alignments (AIIDA) method for intelligent fault diagnosis of rotating machinery. <i>Reliability Engineering and System Safety</i> , 2022, 218, 108186.	10.5	61
32	Revealing defect-mode-enabled energy localization mechanisms of a one-dimensional phononic crystal. <i>International Journal of Mechanical Sciences</i> , 2022, 215, 106950.	8.9	44
33	An image-based feature extraction method for fault diagnosis of variable-speed rotating machinery. <i>Mechanical Systems and Signal Processing</i> , 2022, 167, 108524.	7.9	24
34	A health-adaptive time-scale representation (HTSR) embedded convolutional neural network for gearbox fault diagnostics. <i>Mechanical Systems and Signal Processing</i> , 2022, 167, 108575.	7.9	40
35	A comparative study of statistical validation metrics with consideration of variance to address type II errors in statistical model validation. <i>Structural and Multidisciplinary Optimization</i> , 2022, 65, .	3.4	3
36	Optimal Sensor Placement Considering Both Sensor Faults Under Uncertainty and Sensor Clustering for Vibration-Based Damage Detection. <i>Structural and Multidisciplinary Optimization</i> , 2022, 65, .	3.4	27

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37	Motor-current-based electromagnetic interference de-noising method for rolling element bearing diagnosis using acoustic emission sensors. Measurement: Journal of the International Measurement Confederation, 2022, 193, 110912.	4.9	38
38	A deep transferable motion-adaptive fault detection method for industrial robots using a residual-convolutional neural network. ISA Transactions, 2022, 128, 521-534.	5.7	31
39	A Noise-Robust Feature Extraction Method for Rolling Element Bearing Diagnosis: Linear Power-Normalized Cepstral Coefficients (LPNCC). International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 10, 217-232.	4.3	7
40	L-shape triple defects in a phononic crystal for broadband piezoelectric energy harvesting. Nano Convergence, 2022, 9, .	9.9	31
41	Enhanced ultrasonic wave generation using energy-localized behaviors of phononic crystals. International Journal of Mechanical Sciences, 2022, 228, 107483.	8.9	20
42	A health image for deep learning-based fault diagnosis of a permanent magnet synchronous motor under variable operating conditions: Instantaneous current residual map. Reliability Engineering and System Safety, 2022, 226, 108715.	10.5	50
43	Estimation of fatigue crack initiation and growth in engineering product development using a digital twin approach. Reliability Engineering and System Safety, 2022, 226, 108721.	10.5	27
44	Digital twin approach for on-load tap changers using data-driven dynamic model updating and optimization-based operating condition estimation. Mechanical Systems and Signal Processing, 2022, 181, 109471.	7.9	40
45	Missing data imputation using an iterative denoising autoencoder (IDAE) for dissolved gas analysis. Electric Power Systems Research, 2022, 212, 108642.	3.9	18
46	Effective band-selection algorithm for rolling element bearing diagnosis using AE sensor data under noisy conditions. Structural and Multidisciplinary Optimization, 2022, 65, .	3.4	12
47	Phononic band gap of a quarter-wave stack for enhanced piezoelectric energy harvesting. International Journal of Mechanical Sciences, 2021, 189, 106003.	8.9	18
48	Experimentally validated broadband self-collimation of elastic waves. International Journal of Mechanical Sciences, 2021, 192, 106131.	8.9	24
49	An analytical model of a phononic crystal with a piezoelectric defect for energy harvesting using an electroelastically coupled transfer matrix. International Journal of Mechanical Sciences, 2021, 193, 106160.	8.9	62
50	A Health Data Map-Based Ensemble of Deep Domain Adaptation Under Inhomogeneous Operating Conditions for Fault Diagnosis of a Planetary Gearbox. IEEE Access, 2021, 9, 79118-79127.	3.1	11
51	Deep Learning-Based Diagnosis of Peripheral Artery Disease via Continuous Property-Adversarial Regularization: Preliminary in Silico Study. IEEE Access, 2021, 9, 127433-127443.	3.1	11
52	Multi-task learning of classification and denoising (MLCD) for noise-robust rotor system diagnosis. Computers in Industry, 2021, 125, 103385.	8.4	35
53	Machining quality monitoring (MQM) in laser-assisted micro-milling of glass using cutting force signals: an image-based deep transfer learning. Journal of Intelligent Manufacturing, 2021, 33, 1813-1828.	5.2	35
54	An improved analytical model that considers lateral effects of a phononic crystal with a piezoelectric defect for elastic wave energy harvesting. International Journal of Mechanical Sciences, 2021, 205, 106593.	8.9	38

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55	A Phononic Crystal with Differently Configured Double Defects for Broadband Elastic Wave Energy Localization and Harvesting. <i>Crystals</i> , 2021, 11, 643.	2.2	34
56	Model improvement with experimental design for identifying error sources in a computational model. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 3109-3122.	3.4	3
57	Double defects-induced elastic wave coupling and energy localization in a phononic crystal. <i>Nano Convergence</i> , 2021, 8, .	9.9	51
58	Reliability-based Design Optimization of Laminated Composite Structures under Delamination and Material Property Uncertainties. <i>International Journal of Mechanical Sciences</i> , 2021, 205, 106561.	8.9	56
59	Cepstrum-assisted empirical wavelet transform (CEWT)-based improved demodulation analysis for fault diagnostics of planetary gearboxes. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 183, 109796.	4.9	34
60	Drive-Tolerant Current Residual Variance (DTCRV) for Fault Detection of a Permanent Magnet Synchronous Motor Under Operational Speed and Load Torque Conditions. <i>IEEE Access</i> , 2021, 9, 49055-49068.	3.1	9
61	Label-based, Mini-batch Combinations Study for Convolutional Neural Network Based Fluid-film Bearing Rotor System Diagnosis. <i>Computers in Industry</i> , 2021, 133, 103546.	8.4	5
62	An explicit solution for the design of a target-frequency-customized, piezoelectric-defect-introduced phononic crystal for elastic wave energy harvesting. <i>Journal of Applied Physics</i> , 2021, 130, .	2.1	22
63	A resilience measure formulation that considers sensor faults. <i>Reliability Engineering and System Safety</i> , 2020, 199, 106393.	10.5	18
64	A new calibration metric that considers statistical correlation: Marginal Probability and Correlation Residuals. <i>Reliability Engineering and System Safety</i> , 2020, 195, 106677.	10.5	11
65	Phase-based time domain averaging (PTDA) for fault detection of a gearbox in an industrial robot using vibration signals. <i>Mechanical Systems and Signal Processing</i> , 2020, 138, 106544.	7.9	73
66	A Semi-Supervised Autoencoder With an Auxiliary Task (SAAT) for Power Transformer Fault Diagnosis Using Dissolved Gas Analysis. <i>IEEE Access</i> , 2020, 8, 178295-178310.	3.1	29
67	Enhanced energy transfer and conversion for high performance phononic crystal-assisted elastic wave energy harvesting. <i>Nano Energy</i> , 2020, 78, 105226.	16.3	101
68	Operation-Adaptive Damage Assessment of Steam Turbines Using a Nonlinear Creep-Fatigue Interaction Model. <i>IEEE Access</i> , 2020, 8, 126776-126783.	3.1	2
69	Detection and Severity Assessment of Peripheral Occlusive Artery Disease via Deep Learning Analysis of Arterial Pulse Waveforms: Proof-of-Concept and Potential Challenges. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, .	4.0	23
70	Direct Connection-Based Convolutional Neural Network (DC-CNN) for Fault Diagnosis of Rotor Systems. <i>IEEE Access</i> , 2020, 8, 172043-172056.	3.1	36
71	A graded phononic crystal with decoupled double defects for broadband energy localization. <i>International Journal of Mechanical Sciences</i> , 2020, 183, 105833.	8.9	73
72	Model-Based Fault Detection Method for Coil Burnout in Solenoid Valves Subjected to Dynamic Thermal Loading. <i>IEEE Access</i> , 2020, 8, 70387-70400.	3.1	21

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73	Industrial issues and solutions to statistical model improvement: a case study of an automobile steering column. <i>Structural and Multidisciplinary Optimization</i> , 2020, 61, 1739-1756.	3.4	15
74	An adaptive hybrid expansion method (AHM) for efficient structural topology optimization under harmonic excitation. <i>Structural and Multidisciplinary Optimization</i> , 2020, 61, 895-921.	3.4	17
75	Elastic wave localization and harvesting using double defect modes of a phononic crystal. <i>Journal of Applied Physics</i> , 2020, 127, .	2.1	75
76	Optimal vibration image size determination for convolutional neural network based fluid-film rotor-bearing system diagnosis. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 1467-1474.	1.5	9
77	Designing a phononic crystal with a defect for energy localization and harvesting: Supercell size and defect location. <i>International Journal of Mechanical Sciences</i> , 2020, 179, 105670.	8.9	123
78	Appropriate Smart Factory for SMEs: Concept, Application and Perspective. <i>International Journal of Precision Engineering and Manufacturing</i> , 2020, 22, 201-215.	2.7	57
79	A Feature Inherited Hierarchical Convolutional Neural Network (FI-HCNN) for Motor Fault Severity Estimation Using Stator Current Signals. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020, 8, 1253-1266.	4.3	15
80	Life-cycle maintenance cost analysis framework considering time-dependent false and missed alarms for fault diagnosis. <i>Reliability Engineering and System Safety</i> , 2019, 184, 181-192.	10.5	29
81	A positive energy residual (PER) based planetary gear fault detection method under variable speed conditions. <i>Mechanical Systems and Signal Processing</i> , 2019, 117, 347-360.	7.9	48
82	Sequential optimization and uncertainty propagation method for efficient optimization-based model calibration. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 1355-1372.	3.4	9
83	Concurrent topology optimization with uniform microstructure for minimizing dynamic response in the time domain. <i>Computers and Structures</i> , 2019, 222, 98-117.	4.4	36
84	Identifiability-based model decomposition for hierarchical calibration. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 1801-1811.	3.4	5
85	PHM experimental design for effective state separation using Jensen-Shannon divergence. <i>Reliability Engineering and System Safety</i> , 2019, 190, 106503.	10.5	13
86	A comprehensive review of artificial intelligence-based approaches for rolling element bearing PHM: shallow and deep learning. <i>JMST Advances</i> , 2019, 1, 125-151.	1.3	147
87	A robust and convex metric for unconstrained optimization in statistical model calibration—probability residual (PR). <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 1171-1187.	3.4	18
88	Review of statistical model calibration and validation— from the perspective of uncertainty structures. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 1619-1644.	3.4	84
89	Variance of energy residual (VER): An efficient method for planetary gear fault detection under variable-speed conditions. <i>Journal of Sound and Vibration</i> , 2019, 453, 253-267.	4.3	24
90	A New Parameter Repurposing Method for Parameter Transfer With Small Dataset and Its Application in Fault Diagnosis of Rolling Element Bearings. <i>IEEE Access</i> , 2019, 7, 46917-46930.	3.1	65

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91	Test Scheme and Degradation Model of Accumulated Electrostatic Discharge (ESD) Damage for Insulated Gate Bipolar Transistor (IGBT) Prognostics. IEEE Transactions on Device and Materials Reliability, 2019, 19, 233-241.	1.3	8
92	Two-dimensional octagonal phononic crystals for highly dense piezoelectric energy harvesting. Nano Energy, 2019, 57, 327-337.	16.3	136
93	System reliability analysis of piezoelectric vibration energy harvesting considering multiple safety events under physical uncertainty. Smart Materials and Structures, 2019, 28, 025010.	3.4	8
94	An efficient concurrent topology optimization approach for frequency response problems. Computer Methods in Applied Mechanics and Engineering, 2019, 347, 700-734.	7.1	72
95	A Bayesian approach for a damage growth model using sporadically measured and heterogeneous on-site data from a steam turbine. Reliability Engineering and System Safety, 2019, 184, 137-150.	10.5	19
96	Development of a stochastic effective independence (SEFI) method for optimal sensor placement under uncertainty. Mechanical Systems and Signal Processing, 2018, 111, 615-627.	7.9	61
97	Toothwise Fault Identification for a Planetary Gearbox Based on a Health Data Map. IEEE Transactions on Industrial Electronics, 2018, 65, 5903-5912.	6.5	30
98	Time-varying output performances of piezoelectric vibration energy harvesting under nonstationary random vibrations. Smart Materials and Structures, 2018, 27, 015004.	3.4	21
99	Autonomous health management for PMSM rail vehicles through demagnetization monitoring and prognosis control. ISA Transactions, 2018, 72, 245-255.	5.7	15
100	Scalable and Unsupervised Feature Engineering Using Vibration-Imaging and Deep Learning for Rotor System Diagnosis. IEEE Transactions on Industrial Electronics, 2018, 65, 3539-3549.	6.5	126
101	On the orthogonal similarity transformation (OST)-based sensitivity analysis method for robust topology optimization under loading uncertainty: a mathematical proof and its extension. Structural and Multidisciplinary Optimization, 2018, 58, 51-60.	3.4	5
102	An efficient decoupled sensitivity analysis method for multiscale concurrent topology optimization problems. Structural and Multidisciplinary Optimization, 2018, 58, 445-457.	3.4	24
103	An Omnidirectional Biomechanical Energy Harvesting (OBEH) Sidewalk Block for a Self-Generative Power Grid in a Smart City. International Journal of Precision Engineering and Manufacturing - Green Technology, 2018, 5, 507-517.	4.3	26
104	A Framework for Prognostics and Health Management Applications toward Smart Manufacturing Systems. International Journal of Precision Engineering and Manufacturing - Green Technology, 2018, 5, 535-554.	4.3	53
105	Uncertainty characterization under measurement errors using maximum likelihood estimation: cantilever beam end-to-end UQ test problem. Structural and Multidisciplinary Optimization, 2018, 59, 323-333.	3.4	9
106	Omnidirectional regeneration (ODR) of proximity sensor signals for robust diagnosis of journal bearing systems. Mechanical Systems and Signal Processing, 2017, 90, 189-207.	7.9	40
107	Assembly yield prediction of plastically encapsulated packages with a large number of manufacturing variables by advanced approximate integration method. Microelectronics Reliability, 2017, 78, 319-330.	1.6	9
108	Modeling and assessment of partially debonded piezoelectric sensor in smart composite laminates. International Journal of Mechanical Sciences, 2017, 131-132, 26-36.	8.9	18

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109	A newly formulated resilience measure that considers false alarms. Reliability Engineering and System Safety, 2017, 167, 417-427.	10.5	19
110	Classification of operating conditions of wind turbines for a class-wise condition monitoring strategy. Renewable Energy, 2017, 103, 594-605.	9.2	24
111	A comprehensive survey on topology optimization of phononic crystals. Structural and Multidisciplinary Optimization, 2016, 54, 1315-1344.	3.4	151
112	Model-Based Fault Diagnosis of a Planetary Gear: A Novel Approach Using Transmission Error. IEEE Transactions on Reliability, 2016, 65, 1830-1841.	3.9	66
113	An Online-Applicable Model for Predicting Health Degradation of PEM Fuel Cells With Root Cause Analysis. IEEE Transactions on Industrial Electronics, 2016, 63, 7094-7103.	6.5	39
114	A systematic approach for model refinement considering blind and recognized uncertainties in engineered product development. Structural and Multidisciplinary Optimization, 2016, 54, 1527-1541.	3.4	8
115	Probabilistic Lifetime Prediction of Electronic Packages Using Advanced Uncertainty Propagation Analysis and Model Calibration. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 238-248.	1.7	9
116	Kirchhoff plate theory-based electromechanically-coupled analytical model considering inertia and stiffness effects of a surface-bonded piezoelectric patch. Smart Materials and Structures, 2016, 25, 025017.	3.4	61
117	Statistical multiscale homogenization approach for analyzing polymer nanocomposites that include model inherent uncertainties of molecular dynamics simulations. Composites Part B: Engineering, 2016, 87, 120-131.	12.8	44
118	Autocorrelation-based time synchronous averaging for condition monitoring of planetary gearboxes in wind turbines. Mechanical Systems and Signal Processing, 2016, 70-71, 161-175.	7.9	109
119	Datum unit optimization for robustness of a journal bearing diagnosis system. International Journal of Precision Engineering and Manufacturing, 2015, 16, 2411-2425.	2.7	17
120	A probabilistic detectability-based sensor network design method for system health monitoring and prognostics. Journal of Intelligent Material Systems and Structures, 2015, 26, 1079-1090.	2.2	21
121	An Energy conversion model for cantilevered piezoelectric vibration energy harvesters using only measurable parameters. International Journal of Precision Engineering and Manufacturing - Green Technology, 2015, 2, 51-57.	4.3	35
122	An empirical model to describe performance degradation for warranty abuse detection in portable electronics. Reliability Engineering and System Safety, 2015, 142, 92-99.	10.5	19
123	A co-training-based approach for prediction of remaining useful life utilizing both failure and suspension data. Mechanical Systems and Signal Processing, 2015, 62-63, 75-90.	7.9	29
124	Active vibration control of smart composite laminates with partial debonding of actuator. International Journal of Precision Engineering and Manufacturing, 2015, 16, 831-840.	2.7	5
125	Statistical Health Reasoning of Water-Cooled Power Generator Stator Bars Against Moisture Absorption. IEEE Transactions on Energy Conversion, 2015, 30, 1376-1385.	4.1	7
126	Hierarchical model calibration for designing piezoelectric energy harvester in the presence of variability in material properties and geometry. Structural and Multidisciplinary Optimization, 2015, 53, 161-173.	3.4	39

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127	Stochastic quantification of the electric power generated by a piezoelectric energy harvester using a time-frequency analysis under non-stationary random vibrations. <i>Smart Materials and Structures</i> , 2014, 23, 045035.	3.4	19
128	A framework of model validation and virtual product qualification with limited experimental data based on statistical inference. <i>Structural and Multidisciplinary Optimization</i> , 2014, 51, 573-583.	3.4	32
129	Random field modeling with insufficient field data for probability analysis and design. <i>Structural and Multidisciplinary Optimization</i> , 2014, 51, 599-611.	3.4	17
130	Prognosis-informed wind farm operation and maintenance for concurrent economic and environmental benefits. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 1049-1056.	2.7	8
131	Copula-Based Statistical Health Grade System Against Mechanical Faults of Power Transformers. <i>IEEE Transactions on Power Delivery</i> , 2012, 27, 1809-1819.	3.0	96
132	Predictive carbon nanotube models using the eigenvector dimension reduction (EDR) method. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 1089-1097.	1.5	5
133	A multiscale framework with extended Kalman filter for lithium-ion battery SOC and capacity estimation. <i>Applied Energy</i> , 2012, 92, 694-704.	10.6	510
134	Ensemble of data-driven prognostic algorithms for robust prediction of remaining useful life. <i>Reliability Engineering and System Safety</i> , 2012, 103, 120-135.	10.5	313
135	A generic probabilistic framework for structural health prognostics and uncertainty management. <i>Mechanical Systems and Signal Processing</i> , 2012, 28, 622-637.	7.9	143
136	An adaptive dimension decomposition and reselection method for reliability analysis. <i>Structural and Multidisciplinary Optimization</i> , 2012, 47, 423-440.	3.4	17
137	A new piezoelectric energy harvesting design concept: multimodal energy harvesting skin. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 629-645.	2.6	83
138	Resilience-Driven System Design of Complex Engineered Systems. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2011, 133, .	2.4	162
139	An asymmetric dimension-adaptive tensor-product method for reliability analysis. <i>Structural Safety</i> , 2011, 33, 218-231.	6.1	23
140	A statistical characterization method for damping material properties and its application to structural-acoustic system design. <i>Journal of Mechanical Science and Technology</i> , 2011, 25, 1893-1904.	1.5	23
141	A hierarchical framework for statistical model calibration in engineering product development. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 1421-1431.	7.1	69
142	A Generalized Complementary Intersection Method (GCIM) for System Reliability Analysis. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2011, 133, .	2.4	61
143	A comparative study of probability estimation methods for reliability analysis. <i>Structural and Multidisciplinary Optimization</i> , 2011, 45, 33-52.	3.4	56
144	Forward-stepwise regression analysis for fine leak batch testing of wafer-level hermetic MEMS packages. <i>Microelectronics Reliability</i> , 2010, 50, 507-513.	1.6	2

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145	Random Field Characterization Considering Statistical Dependence for Probability Analysis and Design. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2010, 132, .	2.4	11
146	Adaptive-sparse polynomial chaos expansion for reliability analysis and design of complex engineering systems. <i>Structural and Multidisciplinary Optimization</i> , 2010, 43, 419-442.	3.4	161
147	Robust segment-type energy harvester and its application to a wireless sensor. <i>Smart Materials and Structures</i> , 2009, 18, 095021.	3.4	81
148	Optimal Design of Constrained-Layer Damping Structures Considering Material and Operational Condition Variability. <i>AIAA Journal</i> , 2009, 47, 2985-2995.	2.5	9
149	Complementary Intersection Method for System Reliability Analysis. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2009, 131, .	2.4	59
150	Bayesian Reliability Analysis With Evolving, Insufficient, and Subjective Data Sets. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2009, 131, .	2.4	66
151	Eigenvector dimension reduction (EDR) method for sensitivity-free probability analysis. <i>Structural and Multidisciplinary Optimization</i> , 2008, 37, 13-28.	3.4	173
152	Reliability-based robust design optimization using the eigenvector dimension reduction (EDR) method. <i>Structural and Multidisciplinary Optimization</i> , 2008, 37, 475-492.	3.4	75
153	Variation Propagation Analysis on Compliant Assemblies Considering Contact Interaction. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2007, 129, 934-942.	2.6	88
154	Bayesian reliability-based design optimization using eigenvector dimension reduction (EDR) method. <i>Structural and Multidisciplinary Optimization</i> , 2007, 36, 107-123.	3.4	111
155	Inverse Possibility Analysis Method for Possibility-Based Design Optimization. <i>AIAA Journal</i> , 2006, 44, 2682-2690.	2.5	77
156	Inverse reliability measures and reliability-based design optimisation. <i>International Journal of Reliability and Safety</i> , 2006, 1, 187.	0.2	39
157	Possibility-Based Design Optimization Method for Design Problems With Both Statistical and Fuzzy Input Data. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2006, 128, 928-935.	2.4	77
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