

# Qiang Zhou

## List of Publications by Year in descending order

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48  
papers

1,266  
citations

471509  
17  
h-index

361022  
35  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1374  
citing authors

#	ARTICLE	IF	CITATIONS
1	An order statistic approach for inference of the size distribution of 3D particle clusters in metal matrix nanocomposites. CIRP Journal of Manufacturing Science and Technology, 2022, 38, 204-214.	4.5	0
2	Adaptive sequential predictive maintenance policy with nonperiodic inspection for hard failures. Quality and Reliability Engineering International, 2021, 37, 1173-1185.	2.3	9
3	Modeling multivariate profiles using Gaussian process-controlled B-splines. IISE Transactions, 2021, 53, 787-798.	2.4	12
4	Joint Modeling of Degradation and Lifetime Data for RUL Prediction of Deteriorating Products. IEEE Transactions on Industrial Informatics, 2021, 17, 4521-4531.	11.3	35
5	Machine learning predictions of critical heat fluxes for pillar-modified surfaces. International Journal of Heat and Mass Transfer, 2021, 180, 121744.	4.8	11
6	Research on the Improved Calculation Method of the Influence of VSC-HVDC on AC Short-Circuit Current. , 2021, , .		0
7	Efficient monitoring of autocorrelated Poisson counts. IISE Transactions, 2020, 52, 769-779.	2.4	4
8	Machine Learning Prediction for Bandgaps of Inorganic Materials. ES Materials & Manufacturing, 2020, , .	1.9	11
9	Multiple-Change-Point Modeling and Exact Bayesian Inference of Degradation Signal for Prognostic Improvement. IEEE Transactions on Automation Science and Engineering, 2019, 16, 613-628.	5.2	20
10	Remaining useful life prediction for hard failures using joint model with extended hazard. Quality and Reliability Engineering International, 2018, 34, 748-758.	2.3	11
11	Monitoring serially dependent categorical processes with ordinal information. IISE Transactions, 2018, 50, 596-605.	2.4	5
12	A Noise Resistant Correlation Method for Period Detection of Noisy Signals. IEEE Transactions on Signal Processing, 2018, 66, 2700-2710.	5.3	20
13	Pairwise Estimation of Multivariate Gaussian Process Models With Replicated Observations: Application to Multivariate Profile Monitoring. Technometrics, 2018, 60, 70-78.	1.9	16
14	A Wavelet-Based Statistical Approach for Monitoring and Diagnosis of Compound Faults With Application to Rolling Bearings. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1563-1572.	5.2	58
15	Data-driven predictive analytics of unexpected wind turbine shut-downs. IET Renewable Power Generation, 2018, 12, 1833-1842.	3.1	4
16	Phase I monitoring of optical profiles with application in low-emittance glass manufacturing. Journal of Quality Technology, 2018, 50, 262-278.	2.5	3
17	Prediction of hard failures with stochastic degradation signals using Wiener process and proportional hazards model. Computers and Industrial Engineering, 2018, 125, 480-489.	6.3	39
18	Monitoring Spatial Uniformity of Particle Distributions in Manufacturing Processes Using the K Function. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1031-1041.	5.2	13

#	ARTICLE	IF	CITATIONS
19	Sequential design strategies for mean response surface metamodeling via stochastic kriging with adaptive exploration and exploitation. European Journal of Operational Research, 2017, 262, 575-585.	5.7	20
20	On the distribution of the modulus of Gabor wavelet coefficients and the upper bound of the dimensionless smoothness index in the case of additive Gaussian noises: Revisited. Journal of Sound and Vibration, 2017, 395, 393-400.	3.9	7
21	A General Approach for Monitoring Serially Dependent Categorical Processes. Journal of Quality Technology, 2017, 49, 365-379.	2.5	5
22	Multi-Scale Diagnosis of Spatial Point Interaction Via Decomposition of the $K$ -Function-Based $T^2$ -Statistic. Journal of Quality Technology, 2017, 49, 213-227.	2.5	3
23	Wavelet-Based Statistical Health Monitoring and Fault Diagnosis Method. , 2017, , .		1
24	Remaining Useful Life Prediction of Lithium-Ion Batteries Based on Spherical Cubature Particle Filter. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1282-1291.	4.7	203
25	A sequential sampling strategy to improve the global fidelity of metamodels in multi-level system design. Structural and Multidisciplinary Optimization, 2016, 53, 1295-1313.	3.5	29
26	Pairwise Meta-Modeling of Multivariate Output Computer Models Using Nonseparable Covariance Function. Technometrics, 2016, 58, 483-494.	1.9	10
27	Novel Gauss-Hermite integration based Bayesian inference on optimal wavelet parameters for bearing fault diagnosis. Mechanical Systems and Signal Processing, 2016, 72-73, 80-91.	8.0	18
28	Differential evolution-based feature selection and parameter optimisation for extreme learning machine in tool wear estimation. International Journal of Production Research, 2016, 54, 4703-4721.	7.5	29
29	Bi-directional Sliced Latin Hypercube Designs. Statistica Sinica, 2016, , .	0.3	1
30	Prognostics and Health Management: A Review on Data Driven Approaches. Mathematical Problems in Engineering, 2015, 2015, 1-17.	1.1	235
31	Prediction of the failure interval with maximum power based on the remaining useful life distribution. IIE Transactions, 2015, 47, 1072-1087.	2.1	8
32	Vibration Sensor Data Denoising Using a Time-Frequency Manifold for Machinery Fault Diagnosis. Sensors, 2014, 14, 382-402.	3.8	48
33	Sequential experimental designs for stochastic kriging. , 2014, , .		9
34	Detecting 3D Spatial Clustering of Particles in Nanocomposites Based on Cross-Sectional Images. Technometrics, 2014, 56, 212-224.	1.9	10
35	Remaining useful life prediction of individual units subject to hard failure. IIE Transactions, 2014, 46, 1017-1030.	2.1	72
36	Optimization of Wind Power and Its Variability With a Computational Intelligence Approach. IEEE Transactions on Sustainable Energy, 2014, 5, 228-236.	8.8	21

#	ARTICLE	IF	CITATIONS
37	Robust Phase I monitoring of profile data with application in low-E glass manufacturing processes. Journal of Manufacturing Systems, 2014, 33, 508-521.	13.9	6
38	Evaluation and Comparison of Mixed Effects Model Based Prognosis for Hard Failure. IEEE Transactions on Reliability, 2013, 62, 379-394.	4.6	43
39	On assessing spatial uniformity of particle distributions in quality control of manufacturing processes. Journal of Manufacturing Systems, 2013, 32, 154-166.	13.9	29
40	Surrogate Modeling of Multistage Assembly Processes Using Integrated Emulation. Journal of Mechanical Design, Transactions of the ASME, 2012, 134, .	2.9	6
41	A comparative study on clustering indices for distribution uniformity of nanoparticles in metal matrix nanocomposites. CIRP Journal of Manufacturing Science and Technology, 2012, 5, 348-356.	4.5	14
42	Quantifying boundary effect of nanoparticles in metal matrix nanocomposite fabrication processes. IIE Transactions, 2012, 44, 551-567.	2.1	7
43	A Simple Approach to Emulation for Computer Models With Qualitative and Quantitative Factors. Technometrics, 2011, 53, 266-273.	1.9	109
44	Integrating GD&T into dimensional variation models for multistage machining processes. International Journal of Production Research, 2010, 48, 3129-3149.	7.5	37
45	Statistical Detection of Defect Patterns Using Hough Transform. IEEE Transactions on Semiconductor Manufacturing, 2010, 23, 370-380.	1.7	12
46	Adaptive Control of the Hybrid Power System in Fuel Cell City Bus. Journal of Highway and Transportation Research and Development (English Edition), 2007, 2, 104-108.	0.1	1
47	Dynamic Analysis of DC-DC Boost Converter Based on Its Nonlinear Characteristics. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	2
48	Study on the Characteristics of Boost Converter in Hybrid Fuel Cell City Bus. , 0, , .		0