

# Zhili Sun

## List of Publications by Year in descending order

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30  
papers

604  
citations

1040056

9  
h-index

580821

25  
g-index

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all docs

30  
docs citations

30  
times ranked

423  
citing authors

#	ARTICLE	IF	CITATIONS
1	LIF: A new Kriging based learning function and its application to structural reliability analysis. Reliability Engineering and System Safety, 2017, 157, 152-165.	8.9	293
2	A hybrid algorithm for reliability analysis combining Kriging and subset simulation importance sampling. Journal of Mechanical Science and Technology, 2015, 29, 3183-3193.	1.5	76
3	Identification of chatter in milling of Ti-6Al-4V titanium alloy thin-walled workpieces based on cutting force signals and surface topography. International Journal of Advanced Manufacturing Technology, 2016, 82, 1909-1920.	3.0	56
4	In-plane forced vibration of curved pipe conveying fluid by Green function method. Applied Mathematics and Mechanics (English Edition), 2017, 38, 1397-1414.	3.6	21
5	The stepwise accuracy-improvement strategy based on the Kriging model for structural reliability analysis. Structural and Multidisciplinary Optimization, 2018, 58, 595-612.	3.5	21
6	A New Kriging-Based Learning Function for Reliability Analysis and Its Application to Fatigue Crack Reliability. IEEE Access, 2019, 7, 122811-122819.	4.2	17
7	An efficient and robust adaptive Kriging for structural reliability analysis. Structural and Multidisciplinary Optimization, 2020, 62, 3189-3204.	3.5	13
8	An efficient method to predict the chatter stability of titanium alloy thin-walled workpieces during high-speed milling by considering varying dynamic parameters. International Journal of Advanced Manufacturing Technology, 2020, 106, 5407-5420.	3.0	13
9	Study on the grindability of nano-vitrified bond CBN grinding wheel for nickel-based alloy. International Journal of Advanced Manufacturing Technology, 2019, 100, 1913-1921.	3.0	10
10	Investigation on the grinding properties of high thermal conductivity vitrified bond CBN grinding wheel for titanium alloy. International Journal of Advanced Manufacturing Technology, 2020, 107, 1539-1549.	3.0	10
11	Kriging Model for Time-Dependent Reliability: Accuracy Measure and Efficient Time-Dependent Reliability Analysis Method. IEEE Access, 2020, 8, 172362-172378.	4.2	9
12	Selective Maintenance on a Multi-State Transportation System Considering Maintenance Sequence Arrangement. IEEE Access, 2021, 9, 70048-70060.	4.2	9
13	A Multilevel Monte Carlo Method for Performing Time-Variant Reliability Analysis. IEEE Access, 2021, 9, 31773-31781.	4.2	9
14	Importance Sampling for Time-Variant Reliability Analysis. IEEE Access, 2021, 9, 20933-20941.	4.2	8
15	An Efficient Adaptive Reliability Analysis Method Based on Kriging and Weighted Average Misclassification Rate Improvement. IEEE Access, 2019, 7, 94954-94965.	4.2	7
16	A new Kriging-based DoE strategy and its application to structural reliability analysis. Advances in Mechanical Engineering, 2018, 10, 168781401876768.	1.6	5
17	RCA-PCK: A new structural reliability analysis method based on PC-Kriging and radial centralized adaptive sampling strategy. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 3424-3438.	2.1	5
18	Flow-induced vibration of curved pipe conveying fluid by a new transfer matrix method. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 780-790.	3.1	4

#	ARTICLE	IF	CITATIONS
19	Selective maintenance on a multi-state system considering maintenance task assignment and operating cost. <i>Systems Engineering</i> , 2022, 25, 157-172.	2.7	3
20	Study on the application of dimensionality reduction method on reliability and reliability sensitivity analysis of random vibration systems. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401560856.	1.6	2
21	Optimization of the welding process parameters of Mg-5Gd-3Y magnesium alloy plates with a hybrid Kriging and particle swarm optimization algorithm. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018, 232, 4038-4048.	2.1	2
22	A Multilevel Simulation Method for Time-Variant Reliability Analysis. <i>Sustainability</i> , 2021, 13, 3646.	3.2	2
23	Sensitivity Analysis of Reliability of Low-Mobility Parallel Mechanisms Based on a Response Surface Method. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9002.	2.5	2
24	Vibration and Reliability Analysis of Non-Uniform Composite Beam under Random Load. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2700.	2.5	2
25	Experimental research of wear-fatigue interaction of gears. <i>Advances in Mechanical Engineering</i> , 2022, 14, 168781322211049.	1.6	2
26	An Efficient and Time-Saving Reliability Analysis Strategy for Complex Mechanical Structure. <i>IEEE Access</i> , 2020, 8, 171281-171291.	4.2	1
27	Study on dynamics responses and applications of non-uniform beam structure under crosswind. <i>JVC/Journal of Vibration and Control</i> , 0, , 107754632110183.	2.6	1
28	An Importance Sampling Framework for Time-Variant Reliability Analysis Involving Stochastic Processes. <i>Sustainability</i> , 2021, 13, 7776.	3.2	1
29	An efficient method for strain fatigue reliability analysis. , 2011, , .		0
30	Research on Reliability Method of Complex Mechanical Structure Based on Active Learning. , 2019, , .		0