

Elsayed A Elsayed

List of Publications by Year in descending order

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121
papers

3,237
citations

136940

32
h-index

175241

52
g-index

132
all docs

132
docs citations

132
times ranked

1687
citing authors

#	ARTICLE	IF	CITATIONS
1	Maintenance of continuously monitored degrading systems. <i>European Journal of Operational Research</i> , 2006, 175, 821-835.	5.7	238
2	Optimal levels of process parameters for products with multiple characteristics. <i>International Journal of Production Research</i> , 1993, 31, 1117-1132.	7.5	162
3	Reliability inference for field conditions from accelerated degradation testing. <i>Naval Research Logistics</i> , 2006, 53, 576-587.	2.2	149
4	Condition-based maintenance for continuously monitored degrading systems with multiple failure modes. <i>IIE Transactions</i> , 2013, 45, 422-435.	2.1	141
5	Overview of Reliability Testing. <i>IEEE Transactions on Reliability</i> , 2012, 61, 282-291.	4.6	124
6	Algorithms for optimal material handling in automatic warehousing systems. <i>International Journal of Production Research</i> , 1981, 19, 525-535.	7.5	114
7	Analysis of inventory systems with deteriorating items. <i>International Journal of Production Research</i> , 1983, 21, 449-460.	7.5	99
8	A general accelerated life model for step-stress testing. <i>IIE Transactions</i> , 2005, 37, 1059-1069.	2.1	89
9	Order batching algorithms and travel-time estimation for automated storage/retrieval systems. <i>International Journal of Production Research</i> , 1989, 27, 1097-1114.	7.5	83
10	Computerized algorithms for order processing in automated warehousing systems. <i>International Journal of Production Research</i> , 1983, 21, 579-586.	7.5	78
11	Sequencing and batching procedures for minimizing earliness and tardiness penalty of order retrievals. <i>International Journal of Production Research</i> , 1993, 31, 727-738.	7.5	64
12	Availability optimization of systems subject to competing risk. <i>European Journal of Operational Research</i> , 2010, 202, 781-788.	5.7	58
13	Application of folded sheet metal in flat bed solar air collectors. <i>Applied Thermal Engineering</i> , 2010, 30, 864-871.	6.0	57
14	Optimization of warehouse storage capacity under a dedicated storage policy. <i>International Journal of Production Research</i> , 2005, 43, 1785-1805.	7.5	55
15	A continuous folding process for sheet materials. <i>International Journal of Materials and Product Technology</i> , 2004, 21, 217.	0.2	54
16	Design of PH-based accelerated life testing plans under multiple-stress-type. <i>Reliability Engineering and System Safety</i> , 2007, 92, 286-292.	8.9	53
17	An optimum group maintenance policy. <i>Naval Research Logistics Quarterly</i> , 1983, 30, 667-674.	0.4	52
18	Distributed Sensing for Quality and Productivity Improvements. <i>IEEE Transactions on Automation Science and Engineering</i> , 2006, 3, 344-359.	5.2	51

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19	An economic design of \bar{x} control chart using quadratic loss function. International Journal of Production Research, 1994, 32, 873-887.	7.5	47
20	Reliability Estimation of k -out-of- n Pairs: G Balanced Systems With Spatially Distributed Units. IEEE Transactions on Reliability, 2016, 65, 886-900.	4.6	47
21	Estimation of thin-oxide reliability using proportional hazards models. IEEE Transactions on Reliability, 1990, 39, 329-335.	4.6	46
22	Order Processing in Automated Storage/Retrieval Systems with Due Dates. IIE Transactions, 1996, 28, 567-577.	2.1	46
23	Degradation Analysis of k -out-of- n Pairs: G Balanced System With Spatially Distributed Units. IEEE Transactions on Reliability, 2016, 65, 941-956.	4.6	39
24	An Optimum Repair Policy for the Machine Interference Problem. Journal of the Operational Research Society, 1981, 32, 793-801.	3.4	38
25	Algorithms for project scheduling with resource constraints. International Journal of Production Research, 1982, 20, 95-103.	7.5	38
26	Invited paper Perspectives and challenges for research in quality and reliability engineering. International Journal of Production Research, 2000, 38, 1953-1976.	7.5	38
27	Multivariate Degradation Modeling of Smart Electricity Meter with Multiple Performance Characteristics via Vine Copulas. Quality and Reliability Engineering International, 2017, 33, 803-821.	2.3	38
28	A general model for accelerated life testing with time-dependent covariates. Naval Research Logistics, 1999, 46, 303-321.	2.2	37
29	Heuristics for resource-constrained scheduling. International Journal of Production Research, 1986, 24, 299-310.	7.5	36
30	Process mean and screening limits for filling processes under two-stage screening procedure. European Journal of Operational Research, 2002, 138, 118-126.	5.7	35
31	Generalized support vector data description for anomaly detection. Pattern Recognition, 2020, 100, 107119.	8.1	35
32	Reliability of balanced multi-level Unmanned Aerial Vehicles. Computers and Operations Research, 2019, 106, 1-13.	4.0	34
33	Equivalent accelerated life testing plans for \log -location-scale distributions. Naval Research Logistics, 2010, 57, 472-488.	2.2	33
34	Reliability approximation of k -out-of- n pairs: G balanced systems with spatially distributed units. IIE Transactions, 2018, 50, 616-626.	2.4	33
35	A geometric Brownian motion model for field degradation data. International Journal of Materials and Product Technology, 2004, 20, 51.	0.2	32
36	A case study on process optimization using the gradient loss function. International Journal of Production Research, 1995, 33, 3233-3248.	7.5	31

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37	Mechanism of material removal in the magnetic abrasive process and the accuracy of machining. International Journal of Production Research, 1996, 34, 2629-2638.	7.5	31
38	Variable Selection-based Multivariate Cumulative Sum Control Chart. Quality and Reliability Engineering International, 2017, 33, 565-578.	2.3	31
39	Criticality measures for components with multi-dimensional degradation. IIE Transactions, 2014, 46, 987-998.	2.1	30
40	Improved inverse Gaussian process and bootstrap: Degradation and reliability metrics. Reliability Engineering and System Safety, 2018, 178, 269-277.	8.9	30
41	An extended linear hazard regression model with application to time-dependent dielectric breakdown of thermal oxides. IIE Transactions, 2006, 38, 329-340.	2.1	29
42	A Methodology for the Health Sciences. IIE Transactions, 1997, 29, 806-807.	2.1	28
43	Design of accelerated life testing plans under multiple stresses. Naval Research Logistics, 2013, 60, 468-478.	2.2	24
44	Design of Equivalent Accelerated Life Testing Plans under Different Stress Applications. Quality Technology and Quantitative Management, 2011, 8, 463-478.	1.9	23
45	Reliability prediction and testing plan based on an accelerated degradation rate model. International Journal of Materials and Product Technology, 2004, 21, 402.	0.2	22
46	Drift time detection and adjustment procedures for processes subject to linear trend. International Journal of Production Research, 2006, 44, 3257-3278.	7.5	21
47	Port-of-Entry Inspection: Sensor Deployment Policy Optimization. IEEE Transactions on Automation Science and Engineering, 2009, 6, 265-276.	5.2	21
48	Reliability Optimization by Considering Time-dependent Reliability for Components. Quality and Reliability Engineering International, 2017, 33, 1641-1654.	2.3	21
49	Machining time estimation for magnetic abrasive processes. International Journal of Production Research, 1994, 32, 2817-2825.	7.5	20
50	Optimal design of proportional hazards based accelerated life testing plans. International Journal of Materials and Product Technology, 2002, 17, 411.	0.2	19
51	Reliability modeling of mixtures of one-shot units under thermal cyclic stresses. Reliability Engineering and System Safety, 2017, 167, 58-66.	8.9	19
52	Reliability and quality control for distributed wind/solar energy integration: a multi-criteria approach. IIE Transactions, 2015, 47, 1122-1138.	2.1	18
53	Design and Performance Analysis of the Exponentially Weighted Moving Average Mean Estimate for Processes Subject to Random Step Changes. Technometrics, 2002, 44, 379-389.	1.9	17
54	Multiobjective Optimization of a Port-of-Entry Inspection Policy. IEEE Transactions on Automation Science and Engineering, 2010, 7, 392-400.	5.2	17

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55	An adaptive step-down procedure for fault variable identification. International Journal of Production Research, 2016, 54, 3187-3200.	7.5	16
56	Optimum Accelerated Life Testing Plans Based on Proportional Mean Residual Life. Quality and Reliability Engineering International, 2005, 21, 701-713.	2.3	15
57	Detection of linear trends in process mean. International Journal of Production Research, 2006, 44, 487-504.	7.5	15
58	Economic cost models of integrated APC controlled SPC charts. International Journal of Production Research, 2012, 50, 3936-3955.	7.5	15
59	Reliability modeling and optimization of operational use of one-shot units. Reliability Engineering and System Safety, 2018, 176, 27-36.	8.9	15
60	Monitoring automatically controlled processes using statistical control charts. International Journal of Production Research, 2002, 40, 2303-2320.	7.5	14
61	Reliability Modeling and Prediction of Systems With Mixture of Units. IEEE Transactions on Reliability, 2016, 65, 914-928.	4.6	14
62	Stochastic modeling of corrosion growth. Reliability Engineering and System Safety, 2020, 204, 107120.	8.9	14
63	A general hazard regression model for accelerated life testing. Annals of Operations Research, 1999, 91, 263-280.	4.1	13
64	Bayes and classical estimation of environmental factors for the binomial distribution. IEEE Transactions on Reliability, 1996, 45, 661-665.	4.6	12
65	Modelling accelerated life testing based on mean residual life. International Journal of Systems Science, 2005, 36, 689-696.	5.5	12
66	Optimal design of accelerated life testing plans under progressive censoring. IIE Transactions, 2013, 45, 1176-1187.	2.1	11
67	Adaptive cumulative sum charts with the adaptive runs rule. International Journal of Production Research, 2013, 51, 4556-4569.	7.5	11
68	An adaptive thresholding-based process variability monitoring. Journal of Quality Technology, 2019, 51, 242-256.	2.5	11
69	Manufacturing in the pharmaceutical industry. Journal of Manufacturing Systems, 1995, 14, 452-467.	13.9	10
70	Automated process control and quality engineering for processes with damped controllers. International Journal of Production Research, 1995, 33, 2923-2932.	7.5	10
71	Reliability modeling of a series system with correlated or dependent component degradation processes. , 2011, , .		9
72	Generalized smoothing parameters of a multivariate EWMA control chart. IIE Transactions, 2017, 49, 58-69.	2.4	9

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73	Monitoring multistage processes with autocorrelated observations. International Journal of Production Research, 2017, 55, 2385-2396.	7.5	9
74	Optimal Sequential ALT Plans for Systems With Mixture of One-Shot Units. IEEE Transactions on Reliability, 2017, 66, 997-1011.	4.6	9
75	Bayesian framework for fault variable identification. Journal of Quality Technology, 2019, 51, 375-391.	2.5	9
76	Optimization Problems for Port-of-Entry Detection Systems. Studies in Computational Intelligence, 2008, , 319-335.	0.9	9
77	Analysis of two-stage manufacturing systems with buffer storage and redundant machines. International Journal of Production Research, 1986, 24, 187-201.	7.5	8
78	Degradation Modeling and Prediction of Ink Fading and Diffusion of Printed Images. IEEE Transactions on Reliability, 2018, 67, 184-195.	4.6	8
79	Monitoring and control of beta-distributed multistage production processes. Quality Technology and Quantitative Management, 2019, 16, 1-18.	1.9	8
80	A penalized likelihood-based quality monitoring via L_2 -norm regularization for high-dimensional processes. Journal of Quality Technology, 2020, 52, 265-280.	2.5	8
81	Multivariate statistical process control charts based on the approximate sequential χ^2 -test. International Journal of Production Research, 2014, 52, 5514-5527.	7.5	7
82	Multilevel spatial randomness approach for monitoring changes in 3D topographic surfaces. International Journal of Production Research, 2020, 58, 5545-5558.	7.5	7
83	A multi-machine labor assignment for variable operator service times. Computers and Operations Research, 1979, 6, 147-154.	4.0	6
84	Machine assignments in production systems with manufacturing cells. International Journal of Production Research, 1990, 28, 489-501.	7.5	6
85	Recent research and current issues in accelerated testing. , 0, ,		6
86	Layout aid for the design of VLSI circuits. CAD Computer Aided Design, 1981, 13, 271-276.	2.7	5
87	Mean Residual Life and Optimal Operating Conditions for Industrial Furnace Tubes. , 0, , 497-515.		5
88	Design of Reliability Test Plans: An Overview. Springer Series in Reliability Engineering, 2013, , 17-39.	0.5	4
89	Residual-Based Surface Segmentation for Monitoring Topographic Variations. IEEE Transactions on Automation Science and Engineering, 2022, 19, 280-294.	5.2	4
90	Survivability of embedded microelectronics in precision guided projectiles: Modeling and characterization. International Journal of Impact Engineering, 2021, 154, 103864.	5.0	4

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91	Reliability Prediction and Accelerated Testing. , 2008, , 155-178.		4
92	NONPARAMETRIC ACCELERATED LIFE TESTING BASED ON PROPORTIONAL ODDS MODEL. International Journal of Reliability, Quality and Safety Engineering, 2006, 13, 365-378.	0.6	3
93	Spatially weighted graph theory-based approach for monitoring faults in 3D topographic surfaces. International Journal of Production Research, 2021, 59, 6382-6399.	7.5	3
94	Optimum multiple-stress-type accelerated life testing plans based on proportional odds model with simple step-stress loading. Journal European Des Systemes Automatises, 2006, 40, 745-762.	0.4	3
95	On-Line Surveillance and Monitoring. , 2000, , 309-343.		3
96	Monitoring variations in multimode surface topography. International Journal of Production Research, 0, , 1-17.	7.5	3
97	Statistical and automatic control of a process under a ramp input disturbance. , 2001, , .		2
98	Cross-correlation and X-bar -trend control charts for processes with linear shift. International Journal of Production Research, 2002, 40, 1051-1064.	7.5	2
99	Generalized step stress accelerated life model [LED case study]. , 0, , .		2
100	INVESTIGATION OF EQUIVALENT STEP-STRESS TESTING PLANS. , 2009, , 151-170.		2
101	Equivalent Accelerated Life Testing Plans and Application to Reliability Prediction. SAE International Journal of Materials and Manufacturing, 2010, 3, 71-77.	0.3	2
102	Reliability estimation of load sharing capacity-c-out-of-n pairs:G Balanced system. , 2015, , .		2
103	Machine interference in automated cells. Annals of Operations Research, 1987, 9, 449-468.	4.1	1
104	A PRODUCIBILITY MEASURE FOR QUALITY CHARACTERISTICS WITH DESIGN SPECIFICATIONS. Quality Engineering, 1997, 10, 351-358.	1.1	1
105	Stochastic modeling of degradation branching processes. IISE Transactions, 2021, 53, 365-374.	2.4	1
106	Design of optimal sequential hybrid testing plans. IISE Transactions, 2021, 53, 830-841.	2.4	1
107	Multi-Label Separation-Deviation Surface Model for Detecting Spatial Defects in Topographic Surfaces. IEEE Transactions on Industrial Informatics, 2021, 17, 4555-4565.	11.3	1
108	Shift Detections of Process Mean using Regression and Cross-Correlation Analyses. , 1997, , 279-300.		1

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109	Generalised spatially weighted autocorrelation approach for monitoring and diagnosing faults in 3D topographic surfaces. International Journal of Production Research, 2023, 61, 541-558.	7.5	1
110	Reliability and Resilience Modeling and Quantification. , 2022, , 17-79.		1
111	A Fuzzy Sets Approach to Information Retrieval from A Criminal History Data Base. A I I E Transactions, 1981, 13, 212-222.	0.3	0
112	Attempting to Bench Mark US. Pharmaceutical Manufacturing. Drug Development and Industrial Pharmacy, 1996, 22, 51-66.	2.0	0
113	Mean estimate for Shewhart-chart-monitored processes subject to random shifts. , 0, , .		0
114	OPTIMAL REPLACEMENT OF COMPONENTS SUBJECT TO DEGRADATION. , 2000, , 553-562.		0
115	Reliability Evaluation Based on Sequencing of Applied Stresses. SAE International Journal of Materials and Manufacturing, 2011, 4, 999-1005.	0.3	0
116	Impact of measurement error on container inspection policies atÂport-of-entry. Annals of Operations Research, 2011, 187, 23-43.	4.1	0
117	A framework for condition-based maintenance scheduling. , 2012, , .		0
118	A Tribute to George Box â€” Statistical Methodologies and Applications Foreword. Quality Technology and Quantitative Management, 2015, 12, 1-3.	1.9	0
119	Color Degradation of Printed Images. IEEE Transactions on Reliability, 2020, 69, 458-470.	4.6	0
120	Optimum Threshold Level of Degrading Systems Based on Sensor Observation. , 2008, , 185-199.		0
121	Probabilistic Design for Optimisation and Robustness for Engineers Bryan Dodson, Patrick C. Hammett and Rene Klerx John Wiley & Sons, 2014, 272 pages, \$104.00, hardcover ISBN: 978-1-118-79619-1. International Statistical Review, 0, , .	1.9	0