

Elsayed A Elsayed

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121
papers

2,566
citations

29
h-index

46
g-index

132
ext. papers

2,892
ext. citations

4.6
avg, IF

5.42
L-index

#	Paper	IF	Citations
121	Maintenance of continuously monitored degrading systems. <i>European Journal of Operational Research</i> , 2006 , 175, 821-835	5.6	200
120	Optimal levels of process parameters for products with multiple characteristics. <i>International Journal of Production Research</i> , 1993 , 31, 1117-1132	7.8	142
119	Reliability inference for field conditions from accelerated degradation testing. <i>Naval Research Logistics</i> , 2006 , 53, 576-587	1.5	127
118	Condition-based maintenance for continuously monitored degrading systems with multiple failure modes. <i>IIE Transactions</i> , 2013 , 45, 422-435		113
117	Algorithms for optimal material handling in automatic warehousing systems. <i>International Journal of Production Research</i> , 1981 , 19, 525-535	7.8	98
116	Overview of Reliability Testing. <i>IEEE Transactions on Reliability</i> , 2012 , 61, 282-291	4.6	92
115	Analysis of inventory systems with deteriorating items. <i>International Journal of Production Research</i> , 1983 , 21, 449-460	7.8	83
114	Computerized algorithms for order processing in automated warehousing systems. <i>International Journal of Production Research</i> , 1983 , 21, 579-586	7.8	72
113	Order batching algorithms and travel-time estimation for automated storage/retrieval systems. <i>International Journal of Production Research</i> , 1989 , 27, 1097-1114	7.8	69
112	A general accelerated life model for step-stress testing. <i>IIE Transactions</i> , 2005 , 37, 1059-1069		68
111	Sequencing and batching procedures for minimizing earliness and tardiness penalty of order retrievals. <i>International Journal of Production Research</i> , 1993 , 31, 727-738	7.8	56
110	Availability optimization of systems subject to competing risk. <i>European Journal of Operational Research</i> , 2010 , 202, 781-788	5.6	52
109	Application of folded sheet metal in flat bed solar air collectors. <i>Applied Thermal Engineering</i> , 2010 , 30, 864-871	5.8	45
108	. <i>IEEE Transactions on Automation Science and Engineering</i> , 2006 , 3, 344-359	4.9	45
107	Optimization of warehouse storage capacity under a dedicated storage policy. <i>International Journal of Production Research</i> , 2005 , 43, 1785-1805	7.8	43
106	A continuous folding process for sheet materials. <i>International Journal of Materials and Product Technology</i> , 2004 , 21, 217	1	42
105	Design of PH-based accelerated life testing plans under multiple-stress-type. <i>Reliability Engineering and System Safety</i> , 2007 , 92, 286-292	6.3	41

104	Order Processing in Automated Storage/Retrieval Systems with Due Dates. <i>IIE Transactions</i> , 1996 , 28, 567-577		41
103	An optimum group maintenance policy. <i>Naval Research Logistics Quarterly</i> , 1983 , 30, 667-674		41
102	An economic design of \bar{x} control chart using quadratic loss function. <i>International Journal of Production Research</i> , 1994 , 32, 873-887	7.8	40
101	. <i>IEEE Transactions on Reliability</i> , 1990 , 39, 329-335	4.6	36
100	Algorithms for project scheduling with resource constraints. <i>International Journal of Production Research</i> , 1982 , 20, 95-103	7.8	34
99	Process mean and screening limits for filling processes under two-stage screening procedure. <i>European Journal of Operational Research</i> , 2002 , 138, 118-126	5.6	32
98	Heuristics for resource-constrained scheduling. <i>International Journal of Production Research</i> , 1986 , 24, 299-310	7.8	32
97	An Optimum Repair Policy for the Machine Interference Problem. <i>Journal of the Operational Research Society</i> , 1981 , 32, 793-801	2	32
96	. <i>IEEE Transactions on Reliability</i> , 2016 , 65, 886-900	4.6	32
95	Invited paper Perspectives and challenges for research in quality and reliability engineering. <i>International Journal of Production Research</i> , 2000 , 38, 1953-1976	7.8	31
94	Equivalent accelerated life testing plans for log-location-scale distributions. <i>Naval Research Logistics</i> , 2010 , 57, 472-488	1.5	30
93	A general model for accelerated life testing with time-dependent covariates. <i>Naval Research Logistics</i> , 1999 , 46, 303-321	1.5	29
92	A case study on process optimization using the gradient loss function. <i>International Journal of Production Research</i> , 1995 , 33, 3233-3248	7.8	29
91	Degradation Analysis of k -out-of- n Pairs:G Balanced System With Spatially Distributed Units. <i>IEEE Transactions on Reliability</i> , 2016 , 65, 941-956	4.6	27
90	An extended linear hazard regression model with application to time-dependent dielectric breakdown of thermal oxides. <i>IIE Transactions</i> , 2006 , 38, 329-340		26
89	Multivariate Degradation Modeling of Smart Electricity Meter with Multiple Performance Characteristics via Vine Copulas. <i>Quality and Reliability Engineering International</i> , 2017 , 33, 803-821	2.6	24
88	A geometric Brownian motion model for field degradation data. <i>International Journal of Materials and Product Technology</i> , 2004 , 20, 51	1	24
87	Mechanism of material removal in the magnetic abrasive process and the accuracy of machining. <i>International Journal of Production Research</i> , 1996 , 34, 2629-2638	7.8	24

86	Reliability of balanced multi-level Unmanned Aerial Vehicles. <i>Computers and Operations Research</i> , 2019 , 106, 1-13	4.6	23
85	Criticality measures for components with multi-dimensional degradation. <i>IIE Transactions</i> , 2014 , 46, 987-998		23
84	Variable Selection-based Multivariate Cumulative Sum Control Chart. <i>Quality and Reliability Engineering International</i> , 2017 , 33, 565-578	2.6	22
83	Reliability approximation of k-out-of-n pairs: G balanced systems with spatially distributed units. <i>IIE Transactions</i> , 2018 , 50, 616-626	3.3	20
82	Design of accelerated life testing plans under multiple stresses. <i>Naval Research Logistics</i> , 2013 , 60, 468-478		19
81	Reliability prediction and testing plan based on an accelerated degradation rate model. <i>International Journal of Materials and Product Technology</i> , 2004 , 21, 402	1	19
80	Improved inverse Gaussian process and bootstrap: Degradation and reliability metrics. <i>Reliability Engineering and System Safety</i> , 2018 , 178, 269-277	6.3	18
79	Port-of-Entry Inspection: Sensor Deployment Policy Optimization. <i>IEEE Transactions on Automation Science and Engineering</i> , 2009 , 6, 265-276	4.9	18
78	Drift time detection and adjustment procedures for processes subject to linear trend. <i>International Journal of Production Research</i> , 2006 , 44, 3257-3278	7.8	18
77	Generalized support vector data description for anomaly detection. <i>Pattern Recognition</i> , 2020 , 100, 107119	7.9	18
76	Design and Performance Analysis of the Exponentially Weighted Moving Average Mean Estimate for Processes Subject to Random Step Changes. <i>Technometrics</i> , 2002 , 44, 379-389	1.4	17
75	Machining time estimation for magnetic abrasive processes. <i>International Journal of Production Research</i> , 1994 , 32, 2817-2825	7.8	17
74	Reliability Optimization by Considering Time-Dependent Reliability for Components. <i>Quality and Reliability Engineering International</i> , 2017 , 33, 1641-1654	2.6	16
73	Design of Equivalent Accelerated Life Testing Plans under Different Stress Applications. <i>Quality Technology and Quantitative Management</i> , 2011 , 8, 463-478	1.9	16
72	Reliability modeling of mixtures of one-shot units under thermal cyclic stresses. <i>Reliability Engineering and System Safety</i> , 2017 , 167, 58-66	6.3	15
71	Optimum Accelerated Life Testing Plans Based on Proportional Mean Residual Life. <i>Quality and Reliability Engineering International</i> , 2005 , 21, 701-713	2.6	15
70	Optimal design of proportional hazards based accelerated life testing plans. <i>International Journal of Materials and Product Technology</i> , 2002 , 17, 411	1	15
69	Reliability and quality control for distributed wind/solar energy integration: a multi-criteria approach. <i>IIE Transactions</i> , 2015 , 47, 1122-1138		13

68	Multiobjective Optimization of a Port-of-Entry Inspection Policy. <i>IEEE Transactions on Automation Science and Engineering</i> , 2010 , 7, 392-400	4.9	13
67	Detection of linear trends in process mean. <i>International Journal of Production Research</i> , 2006 , 44, 487-504	7.8	13
66	Monitoring automatically controlled processes using statistical control charts. <i>International Journal of Production Research</i> , 2002 , 40, 2303-2320	7.8	12
65	Reliability modeling and optimization of operational use of one-shot units. <i>Reliability Engineering and System Safety</i> , 2018 , 176, 27-36	6.3	11
64	Reliability Modeling and Prediction of Systems With Mixture of Units. <i>IEEE Transactions on Reliability</i> , 2016 , 65, 914-928	4.6	11
63	An adaptive step-down procedure for fault variable identification. <i>International Journal of Production Research</i> , 2016 , 54, 3187-3200	7.8	11
62	Optimal design of accelerated life testing plans under progressive censoring. <i>IIE Transactions</i> , 2013 , 45, 1176-1187	7.8	10
61	Economic cost models of integrated APC controlled SPC charts. <i>International Journal of Production Research</i> , 2012 , 50, 3936-3955	7.8	10
60	Adaptive cumulative sum charts with the adaptive runs rule. <i>International Journal of Production Research</i> , 2013 , 51, 4556-4569	7.8	10
59	Modelling accelerated life testing based on mean residual life. <i>International Journal of Systems Science</i> , 2005 , 36, 689-696	2.3	10
58	A general hazard regression model for accelerated life testing. <i>Annals of Operations Research</i> , 1999 , 91, 263-280	3.2	10
57	Optimal Sequential ALT Plans for Systems With Mixture of One-Shot Units. <i>IEEE Transactions on Reliability</i> , 2017 , 66, 997-1011	4.6	9
56	Manufacturing in the pharmaceutical industry. <i>Journal of Manufacturing Systems</i> , 1995 , 14, 452-467	9.1	9
55	An adaptive thresholding-based process variability monitoring. <i>Journal of Quality Technology</i> , 2019 , 51, 242-256	1.4	8
54	Monitoring multistage processes with autocorrelated observations. <i>International Journal of Production Research</i> , 2017 , 55, 2385-2396	7.8	8
53	Reliability modeling of a series system with correlated or dependent component degradation processes 2011 ,	7.8	8
52	Automated process control and quality engineering for processes with damped controllers. <i>International Journal of Production Research</i> , 1995 , 33, 2923-2932	7.8	8
51	Optimization Problems for Port-of-Entry Detection Systems. <i>Studies in Computational Intelligence</i> , 2008 , 319-335	0.8	8

50	Generalized smoothing parameters of a multivariate EWMA control chart. <i>IIE Transactions</i> , 2017 , 49, 58-69	3.3	7
49	Bayes and classical estimation of environmental factors for the binomial distribution. <i>IEEE Transactions on Reliability</i> , 1996 , 45, 661-665	4.6	7
48	Stochastic modeling of corrosion growth. <i>Reliability Engineering and System Safety</i> , 2020 , 204, 107120	6.3	7
47	Monitoring and control of beta-distributed multistage production processes. <i>Quality Technology and Quantitative Management</i> , 2019 , 16, 1-18	1.9	7
46	Machine assignments in production systems with manufacturing cells. <i>International Journal of Production Research</i> , 1990 , 28, 489-501	7.8	6
45	Analysis of two-stage manufacturing systems with buffer storage and redundant machines. <i>International Journal of Production Research</i> , 1986 , 24, 187-201	7.8	6
44	A multi-machine labor assignment for variable operator service times. <i>Computers and Operations Research</i> , 1979 , 6, 147-154	4.6	6
43	Bayesian framework for fault variable identification. <i>Journal of Quality Technology</i> , 2019 , 51, 375-391	1.4	6
42	Degradation Modeling and Prediction of Ink Fading and Diffusion of Printed Images. <i>IEEE Transactions on Reliability</i> , 2018 , 67, 184-195	4.6	5
41	Multivariate statistical process control charts based on the approximate sequential $\bar{\mu}$ test. <i>International Journal of Production Research</i> , 2014 , 52, 5514-5527	7.8	5
40	Layout aid for the design of VLSI circuits. <i>CAD Computer Aided Design</i> , 1981 , 13, 271-276	2.9	5
39	Multilevel spatial randomness approach for monitoring changes in 3D topographic surfaces. <i>International Journal of Production Research</i> , 2020 , 58, 5545-5558	7.8	5
38	A penalized likelihood-based quality monitoring via L2-norm regularization for high-dimensional processes. <i>Journal of Quality Technology</i> , 2020 , 52, 265-280	1.4	4
37	Mean Residual Life and Optimal Operating Conditions for Industrial Furnace Tubes	497-515	3
36	Reliability Prediction and Accelerated Testing	2008 , 155-178	3
35	Design of Reliability Test Plans: An Overview. <i>Springer Series in Reliability Engineering</i> , 2013 , 17-39	0.2	2
34	INVESTIGATION OF EQUIVALENT STEP-STRESS TESTING PLANS	2009 , 151-170	2
33	NONPARAMETRIC ACCELERATED LIFE TESTING BASED ON PROPORTIONAL ODDS MODEL. <i>International Journal of Reliability, Quality and Safety Engineering</i> , 2006 , 13, 365-378	0.6	2

32	Statistical and automatic control of a process under a ramp input disturbance 2001 ,		2
31	Optimum multiple-stress-type accelerated life testing plans based on proportional odds model with simple step-stress loading. <i>Journal European Des Systemes Automatises</i> , 2006 , 40, 745-762	1.8	2
30	On-Line Surveillance and Monitoring 2000 , 309-343		2
29	Residual-Based Surface Segmentation for Monitoring Topographic Variations. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 1-15	4.9	2
28	Spatially weighted graph theory-based approach for monitoring faults in 3D topographic surfaces. <i>International Journal of Production Research</i> , 2020 , 1-18	7.8	2
27	Equivalent Accelerated Life Testing Plans and Application to Reliability Prediction. <i>SAE International Journal of Materials and Manufacturing</i> , 2010 , 3, 71-77	1	1
26	A PRODUCIBILITY MEASURE FOR QUALITY CHARACTERISTICS WITH DESIGN SPECIFICATIONS. <i>Quality Engineering</i> , 1997 , 10, 351-358	1.4	1
25	Cross-correlation and X-bar -trend control charts for processes with linear shift. <i>International Journal of Production Research</i> , 2002 , 40, 1051-1064	7.8	1
24	Recent research and current issues in accelerated testing		1
23	Machine interference in automated cells. <i>Annals of Operations Research</i> , 1987 , 9, 449-468	3.2	1
22	Stochastic modeling of degradation branching processes. <i>IIE Transactions</i> , 2021 , 53, 365-374	3.3	1
21	Design of optimal sequential hybrid testing plans. <i>IIE Transactions</i> , 2021 , 53, 830-841	3.3	1
20	Multi-Label Separation-Deviation Surface Model for Detecting Spatial Defects in Topographic Surfaces. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 4555-4565	11.9	1
19	Survivability of embedded microelectronics in precision guided projectiles: Modeling and characterization. <i>International Journal of Impact Engineering</i> , 2021 , 154, 103864	4	1
18	Shift Detections of Process Mean using Regression and Cross-Correlation Analyses 1997 , 279-300		1
17	Generalised spatially weighted autocorrelation approach for monitoring and diagnosing faults in 3D topographic surfaces. <i>International Journal of Production Research</i> , 1-18	7.8	1
16	Reliability Modeling and Testing of One-Shot Units 2019 , 1-9		
15	A Tribute to George Box [Statistical Methodologies and Applications Foreword. <i>Quality Technology and Quantitative Management</i> , 2015 , 12, 1-3	1.9	

- 14 Reliability Evaluation Based on Sequencing of Applied Stresses. *SAE International Journal of Materials and Manufacturing*, **2011**, 4, 999-1005 1
- 13 Impact of measurement error on container inspection policies at port-of-entry. *Annals of Operations Research*, **2011**, 187, 23-43 3.2
- 12 A Methodology for the Health Sciences. *IIE Transactions*, **1997**, 29, 806-807
- 11 OPTIMAL REPLACEMENT OF COMPONENTS SUBJECT TO DEGRADATION **2000**, 553-562
- 10 Attempting to Bench Mark US. Pharmaceutical Manufacturing. *Drug Development and Industrial Pharmacy*, **1996**, 22, 51-66 3.6
- 9 A Fuzzy Sets Approach to Information Retrieval from A Criminal History Data Base. *A I E Transactions*, **1981**, 13, 212-222
- 8 Monitoring variations in multimode surface topography. *International Journal of Production Research*, 1-17 7.8
- 7 Optimum Threshold Level of Degrading Systems Based on Sensor Observation **2008**, 185-199
- 6 MAINTENANCE AND INSPECTION **2020**, 621-678
- 5 ACCELERATED LIFE TESTING **2020**, 393-480
- 4 PHYSICS OF FAILURES **2020**, 481-526
- 3 Color Degradation of Printed Images. *IEEE Transactions on Reliability*, **2020**, 69, 458-470 4.6
- 2 SYSTEM RELIABILITY EVALUATION **2020**, 95-184
- 1 Reliability and Resilience Modeling and Quantification **2022**, 17-79