Elsayed A Elsayed

List of Publications by Year in Descending Order

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	Reliability and Resilience Modeling and Quantification **2022**, 17-79		
120	Stochastic modeling of degradation branching processes. *IISE Transactions*, **2021**, 53, 365-374	3.3	1
119	Design of optimal sequential hybrid testing plans. *IISE Transactions*, **2021**, 53, 830-841	3.3	1
118	Multi-Label Separation-Deviation Surface Model for Detecting Spatial Defects in Topographic Surfaces. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 4555-4565	11.9	1
117	Survivability of embedded microelectronics in precision guided projectiles: Modeling and characterization. *International Journal of Impact Engineering*, **2021**, 154, 103864	4	1
116	MAINTENANCE AND INSPECTION **2020**, 621-678		
115	ACCELERATED LIFE TESTING **2020**, 393-480		
114	PHYSICS OF FAILURES **2020**, 481-526		
113	Color Degradation of Printed Images. *IEEE Transactions on Reliability*, **2020**, 69, 458-470	4.6	
112	Generalized support vector data description for anomaly detection. *Pattern Recognition*, **2020**, 100, 107119	7.9	18
111	Stochastic modeling of corrosion growth. *Reliability Engineering and System Safety*, **2020**, 204, 107120	6.3	7
110	Residual-Based Surface Segmentation for Monitoring Topographic Variations. *IEEE Transactions on Automation Science and Engineering*, **2020**, 1-15	4.9	2
109	Spatially weighted graph theory-based approach for monitoring faults in 3D topographic surfaces. *International Journal of Production Research*, **2020**, 1-18	7.8	2
108	SYSTEM RELIABILITY EVALUATION **2020**, 95-184		
107	A penalized likelihood-based quality monitoring via L2-norm regularization for high-dimensional processes. *Journal of Quality Technology*, **2020**, 52, 265-280	1.4	4
106	Multilevel spatial randomness approach for monitoring changes in 3D topographic surfaces. *International Journal of Production Research*, **2020**, 58, 5545-5558	7.8	5
105	Reliability of balanced multi-level Unmanned Aerial Vehicles. *Computers and Operations Research*, **2019**, 106, 1-13	4.6	23

104	Reliability Modeling and Testing of One-Shot Units **2019**, 1-9		
103	An adaptive thresholding-based process variability monitoring. *Journal of Quality Technology*, **2019**, 51, 242-256	1.4	8
102	Bayesian framework for fault variable identification. *Journal of Quality Technology*, **2019**, 51, 375-391	1.4	6
101	Monitoring and control of beta-distributed multistage production processes. *Quality Technology and Quantitative Management*, **2019**, 16, 1-18	1.9	7
100	Reliability modeling and optimization of operational use of one-shot units. *Reliability Engineering and System Safety*, **2018**, 176, 27-36	6.3	11
99	Degradation Modeling and Prediction of Ink Fading and Diffusion of Printed Images. *IEEE Transactions on Reliability*, **2018**, 67, 184-195	4.6	5
98	Improved inverse Gaussian process and bootstrap: Degradation and reliability metrics. *Reliability Engineering and System Safety*, **2018**, 178, 269-277	6.3	18
97	Reliability approximation of k-out-of-n pairs: G balanced systems with spatially distributed units. *IISE Transactions*, **2018**, 50, 616-626	3.3	20
96	Reliability Optimization by Considering Time-Dependent Reliability for Components. *Quality and Reliability Engineering International*, **2017**, 33, 1641-1654	2.6	16
95	Reliability modeling of mixtures of one-shot units under thermal cyclic stresses. *Reliability Engineering and System Safety*, **2017**, 167, 58-66	6.3	15
94	Generalized smoothing parameters of a multivariate EWMA control chart. *IISE Transactions*, **2017**, 49, 58-69	3.3	7
93	Monitoring multistage processes with autocorrelated observations. *International Journal of Production Research*, **2017**, 55, 2385-2396	7.8	8
92	Multivariate Degradation Modeling of Smart Electricity Meter with Multiple Performance Characteristics via Vine Copulas. *Quality and Reliability Engineering International*, **2017**, 33, 803-821	2.6	24
91	Variable Selection-based Multivariate Cumulative Sum Control Chart. *Quality and Reliability Engineering International*, **2017**, 33, 565-578	2.6	22
90	Optimal Sequential ALT Plans for Systems With Mixture of One-Shot Units. *IEEE Transactions on Reliability*, **2017**, 66, 997-1011	4.6	9
89	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	27
88	Reliability Modeling and Prediction of Systems With Mixture of Units. *IEEE Transactions on Reliability*, **2016**, 65, 914-928	4.6	11
87	An adaptive step-down procedure for fault variable identification. *International Journal of Production Research*, **2016**, 54, 3187-3200	7.8	11

86	. *IEEE Transactions on Reliability*, **2016**, 65, 886-900	4.6	32
85	Reliability and quality control for distributed wind/solar energy integration: a multi-criteria approach. *IIE Transactions*, **2015**, 47, 1122-1138		13
84	A Tribute to George Box Statistical Methodologies and Applications Foreword. *Quality Technology and Quantitative Management*, **2015**, 12, 1-3	1.9	
83	Criticality measures for components with multi-dimensional degradation. *IIE Transactions*, **2014**, 46, 987-998		23
82	Multivariate statistical process control charts based on the approximate sequential test. *International Journal of Production Research*, **2014**, 52, 5514-5527	7.8	5
81	Optimal design of accelerated life testing plans under progressive censoring. *IIE Transactions*, **2013**, 45, 1176-1187		10
80	Design of Reliability Test Plans: An Overview. *Springer Series in Reliability Engineering*, **2013**, 17-39	0.2	2
79	Condition-based maintenance for continuously monitored degrading systems with multiple failure modes. *IIE Transactions*, **2013**, 45, 422-435		113
78	Adaptive cumulative sum charts with the adaptive runs rule. *International Journal of Production Research*, **2013**, 51, 4556-4569	7.8	10
77	Design of accelerated life testing plans under multiple stresses. *Naval Research Logistics*, **2013**, 60, 468-478	1.3	19
76	Overview of Reliability Testing. *IEEE Transactions on Reliability*, **2012**, 61, 282-291	4.6	92
75	Economic cost models of integrated APC controlled SPC charts. *International Journal of Production Research*, **2012**, 50, 3936-3955	7.8	10
74	Reliability Evaluation Based on Sequencing of Applied Stresses. *SAE International Journal of Materials and Manufacturing*, **2011**, 4, 999-1005	1	
73	Impact of measurement error on container inspection policies at port-of-entry. *Annals of Operations Research*, **2011**, 187, 23-43	3.2	
72	Reliability modeling of a series system with correlated or dependent component degradation processes **2011**,		8
71	Design of Equivalent Accelerated Life Testing Plans under Different Stress Applications. *Quality Technology and Quantitative Management*, **2011**, 8, 463-478	1.9	16
70	Equivalent Accelerated Life Testing Plans and Application to Reliability Prediction. *SAE International Journal of Materials and Manufacturing*, **2010**, 3, 71-77	1	1
69	Multiobjective Optimization of a Port-of-Entry Inspection Policy. *IEEE Transactions on Automation Science and Engineering*, **2010**, 7, 392-400	4.9	13

68	Equivalent accelerated life testing plans for log-location-scale distributions. *Naval Research Logistics*, **2010**, 57, 472-488	1.5	30
67	Availability optimization of systems subject to competing risk. *European Journal of Operational Research*, **2010**, 202, 781-788	5.6	52
66	Application of folded sheet metal in flat bed solar air collectors. *Applied Thermal Engineering*, **2010**, 30, 864-871	5.8	45
65	Port-of-Entry Inspection: Sensor Deployment Policy Optimization. *IEEE Transactions on Automation Science and Engineering*, **2009**, 6, 265-276	4.9	18
64	INVESTIGATION OF EQUIVALENT STEP-STRESS TESTING PLANS **2009**, 151-170		2
63	Optimum Threshold Level of Degrading Systems Based on Sensor Observation **2008**, 185-199		
62	Reliability Prediction and Accelerated Testing **2008**, 155-178		3
61	Optimization Problems for Port-of-Entry Detection Systems. *Studies in Computational Intelligence*, **2008**, 319-335	0.8	8
60	Design of PH-based accelerated life testing plans under multiple-stress-type. *Reliability Engineering and System Safety*, **2007**, 92, 286-292	6.3	41
59	Reliability inference for field conditions from accelerated degradation testing. *Naval Research Logistics*, **2006**, 53, 576-587	1.5	127
58	An extended linear hazard regression model with application to time-dependent dielectric breakdown of thermal oxides. *IIE Transactions*, **2006**, 38, 329-340		26
57	NONPARAMETRIC ACCELERATED LIFE TESTING BASED ON PROPORTIONAL ODDS MODEL. *International Journal of Reliability, Quality and Safety Engineering*, **2006**, 13, 365-378	0.6	2
56	. *IEEE Transactions on Automation Science and Engineering*, **2006**, 3, 344-359	4.9	45
55	Drift time detection and adjustment procedures for processes subject to linear trend. *International Journal of Production Research*, **2006**, 44, 3257-3278	7.8	18
54	Detection of linear trends in process mean. *International Journal of Production Research*, **2006**, 44, 487-504	7.8	13
53	Maintenance of continuously monitored degrading systems. *European Journal of Operational Research*, **2006**, 175, 821-835	5.6	200
52	Optimum multiple-stress-type accelerated life testing plans based on proportional odds model with simple step-stress loading. *Journal Europeen Des Systemes Automatises*, **2006**, 40, 745-762	1.8	2
51	Modelling accelerated life testing based on mean residual life. *International Journal of Systems Science*, **2005**, 36, 689-696	2.3	10

50	A general accelerated life model for step-stress testing. *IIE Transactions*, **2005**, 37, 1059-1069		68
49	Optimization of warehouse storage capacity under a dedicated storage policy. *International Journal of Production Research*, **2005**, 43, 1785-1805	7.8	43
48	Optimum Accelerated Life Testing Plans Based on Proportional Mean Residual Life. *Quality and Reliability Engineering International*, **2005**, 21, 701-713	2.6	15
47	A geometric Brownian motion model for field degradation data. *International Journal of Materials and Product Technology*, **2004**, 20, 51	1	24
46	A continuous folding process for sheet materials. *International Journal of Materials and Product Technology*, **2004**, 21, 217	1	42
45	Reliability prediction and testing plan based on an accelerated degradation rate model. *International Journal of Materials and Product Technology*, **2004**, 21, 402	1	19
44	Process mean and screening limits for filling processes under two-stage screening procedure. *European Journal of Operational Research*, **2002**, 138, 118-126	5.6	32
43	Cross-correlation and X-bar -trend control charts for processes with linear shift. *International Journal of Production Research*, **2002**, 40, 1051-1064	7.8	1
42	Monitoring automatically controlled processes using statistical control charts. *International Journal of Production Research*, **2002**, 40, 2303-2320	7.8	12
41	Optimal design of proportional hazards based accelerated life testing plans. *International Journal of Materials and Product Technology*, **2002**, 17, 411	1	15
40	Design and Performance Analysis of the Exponentially Weighted Moving Average Mean Estimate for Processes Subject to Random Step Changes. *Technometrics*, **2002**, 44, 379-389	1.4	17
39	Statistical and automatic control of a process under a ramp input disturbance **2001**,		2
38	OPTIMAL REPLACEMENT OF COMPONENTS SUBJECT TO DEGRADATION **2000**, 553-562		
37	Invited paper Perspectives and challenges for research in quality and reliability engineering. *International Journal of Production Research*, **2000**, 38, 1953-1976	7.8	31
36	On-Line Surveillance and Monitoring **2000**, 309-343		2
35	A general hazard regression modelfor accelerated life testing. *Annals of Operations Research*, **1999**, 91, 263-280	3.2	10
34	A general model for accelerated life testing with time-dependent covariates. *Naval Research Logistics*, **1999**, 46, 303-321	1.5	29
33	A PRODUCIBILITY MEASURE FOR QUALITY CHARACTERISTICS WITH DESIGN SPECIFICATIONS. *Quality Engineering*, **1997**, 10, 351-358	1.4	1

32	A Methodology for the Health Sciences. *IIE Transactions*, **1997**, 29, 806-807		
31	Shift Detections of Process Mean using Regression and Cross-Correlation Analyses **1997**, 279-300		1
30	Mechanism of material removal in the magnetic abrasive process and the accuracy of machining. *International Journal of Production Research*, **1996**, 34, 2629-2638	7.8	24
29	Attempting to Bench Mark US. Pharmaceutical Manufacturing. *Drug Development and Industrial Pharmacy*, **1996**, 22, 51-66	3.6	
28	Order Processing in Automated Storage/Retrieval Systems with Due Dates. *IIE Transactions*, **1996**, 28, 567-577		41
27	Bayes and classical estimation of environmental factors for the binomial distribution. *IEEE Transactions on Reliability*, **1996**, 45, 661-665	4.6	7
26	Manufacturing in the pharmaceutical industry. *Journal of Manufacturing Systems*, **1995**, 14, 452-467	9.1	9
25	Automated process control and quality engineering for processes with damped controllers. *International Journal of Production Research*, **1995**, 33, 2923-2932	7.8	8
24	A case study on process optimization using the gradient loss function. *International Journal of Production Research*, **1995**, 33, 3233-3248	7.8	29
23	An economic design of [xbar] control chart using quadratic loss function. *International Journal of Production Research*, **1994**, 32, 873-887	7.8	40
22	Machining time estimation for magnetic abrasive processes. *International Journal of Production Research*, **1994**, 32, 2817-2825	7.8	17
21	Sequencing and batching procedures for minimizing earliness and tardiness penalty of order retrievals. *International Journal of Production Research*, **1993**, 31, 727-738	7.8	56
20	Optimal levels of process parameters for products with multiple characteristics. *International Journal of Production Research*, **1993**, 31, 1117-1132	7.8	142
19	. *IEEE Transactions on Reliability*, **1990**, 39, 329-335	4.6	36
18	Machine assignments in production systems with manufacturing cells. *International Journal of Production Research*, **1990**, 28, 489-501	7.8	6
17	Order batching algorithms and travel-time estimation for automated storage/retrieval systems. *International Journal of Production Research*, **1989**, 27, 1097-1114	7.8	69
16	Machine interference in automated cells. *Annals of Operations Research*, **1987**, 9, 449-468	3.2	1
15	Heuristics for resource-constrained scheduling *International Journal of Production Research*, **1986**, 24, 299-310	7.8	32

14	Analysis of two-stage manufacturing systems with buffer storage and redundant machines. *International Journal of Production Research*, **1986**, 24, 187-201	7.8	6
13	An optimum group maintenance policy. *Naval Research Logistics Quarterly*, **1983**, 30, 667-674		41
12	Computerized algorithms for order processing in automated warehousing systems. *International Journal of Production Research*, **1983**, 21, 579-586	7.8	72
11	Analysis of inventory systems with deteriorating items. *International Journal of Production Research* , **1983**, 21, 449-460	7.8	83
10	Algorithms for project scheduling with resource constraints. *International Journal of Production Research*, **1982**, 20, 95-103	7.8	34
9	Algorithms for optimal material handling in automatic warehousing systems. *International Journal of Production Research*, **1981**, 19, 525-535	7.8	98
8	An Optimum Repair Policy for the Machine Interference Problem. *Journal of the Operational Research Society*, **1981**, 32, 793-801	2	32
7	Layout aid for the design of VLSI circuits. *CAD Computer Aided Design*, **1981**, 13, 271-276	2.9	5
6	A Fuzzy Sets Approach to Information Retrieval from A Criminal History Data Base. *A I I E Transactions*, **1981**, 13, 212-222		
5	A multi-machine labor assignment for variable operator service times. *Computers and Operations Research*, **1979**, 6, 147-154	4.6	6
4	Mean Residual Life and Optimal Operating Conditions for Industrial Furnace Tubes497-515		3
3	Recent research and current issues in accelerated testing		1
2	Monitoring variations in multimode surface topography. *International Journal of Production Research*,1-17	7.8	
1	Generalised spatially weighted autocorrelation approach for monitoring and diagnosing faults in 3D topographic surfaces. *International Journal of Production Research*,1-18	7.8	1