

Shing I Chang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

902
citations

471509

17
h-index

454955

30
g-index

40
all docs

40
docs citations

40
times ranked

815
citing authors

#	ARTICLE	IF	CITATIONS
1	An integrated group decision-making approach to quality function deployment. IIE Transactions, 1999, 31, 553-567.	2.1	81
2	A fuzzy approach for multiresponse optimization: An off-line quality engineering problem. Fuzzy Sets and Systems, 1994, 63, 117-129.	2.7	80
3	Determination of cluster number in clustering microarray data. Applied Mathematics and Computation, 2005, 169, 1172-1185.	2.2	78
4	Statistical process control for monitoring non-linear profiles using wavelet filtering and B-Spline approximation. International Journal of Production Research, 2010, 48, 1049-1068.	7.5	74
5	A medical decision support system for disease diagnosis under uncertainty. Expert Systems With Applications, 2017, 88, 95-108.	7.6	74
6	Optimal Two-Variable Accelerated Degradation Test Plan for Gamma Degradation Processes. IEEE Transactions on Reliability, 2016, 65, 459-468.	4.6	54
7	Geometric Modeling of Highways Using Global Positioning System Data and B-Spline Approximation. Journal of Transportation Engineering, 2004, 130, 632-636.	0.9	48
8	Multivariate EWMA control charts using individual observations for process mean and variance monitoring and diagnosis. International Journal of Production Research, 2008, 46, 6855-6881.	7.5	39
9	Assessment of Microgrooved Cutting Tool in Dry Machining of AISI 1045 Steel. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	2.2	39
10	MLCPM: A process monitoring framework for 3D metal printing in industrial scale. Computers and Industrial Engineering, 2018, 124, 322-330.	6.3	37
11	Computer Vision Based Non-contact Surface Roughness Assessment Using Wavelet Transform and Response Surface Methodology. Quality Engineering, 2005, 17, 435-451.	1.1	29
12	An integrated group decision-making approach to quality function deployment. IIE Transactions, 1999, 31, 553-567.	2.1	28
13	A layer-by-layer quality monitoring framework for 3D printing. Computers and Industrial Engineering, 2021, 157, 107314.	6.3	24
14	Some Properties of Multiresponse D-Optimal Designs. Journal of Mathematical Analysis and Applications, 1994, 184, 256-262.	1.0	22
15	Statistical Process Control for Monitoring Nonlinear Profiles: A Six Sigma Project on Curing Process. Quality Engineering, 2012, 24, 251-263.	1.1	21
16	On monitoring of multiple non-linear profiles. International Journal of Production Research, 2014, 52, 3209-3224.	7.5	21
17	Impact of Deficit Irrigation on Maize Physical and Chemical Properties and Ethanol Yield. Cereal Chemistry, 2013, 90, 453-462.	2.2	19
18	A cybermanufacturing and AI framework for laser powder bed fusion (LPBF) additive manufacturing process. Manufacturing Letters, 2019, 21, 41-44.	2.2	16

#	ARTICLE	IF	CITATIONS
19	A MULTIPLE-OBJECTIVE DECISIONMAKING APPROACH FOR ASSESSING SIMULTANEOUS IMPROVEMENT IN DIE LIFE AND CASTING QUALITY IN A DIE CASTING PROCESS. <i>Quality Engineering</i> , 1994, 7, 371-383.	1.1	15
20	Statistical Process Control for Variance Shift Detections of Multivariate Autocorrelated Processes. <i>Quality Technology and Quantitative Management</i> , 2007, 4, 413-435.	1.9	15
21	SHORT-RUN STATISTICAL PROCESS CONTROL: MULTICRITERIA PART FAMILY FORMATION. <i>Quality and Reliability Engineering International</i> , 1997, 13, 9-24.	2.3	12
22	Research on real time feature extraction method for complex manufacturing big data. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 99, 1101-1108.	3.0	10
23	A framework of distributed quality control. <i>Computers and Industrial Engineering</i> , 1998, 35, 181-184.	6.3	9
24	Glucan Yield from Enzymatic Hydrolysis of Big Bluestem as Affected by Ecotype and Planting Location Along the Precipitation Gradient of the Great Plains. <i>Bioenergy Research</i> , 2014, 7, 799-810.	3.9	9
25	Optimization of Soybean Oil Based Pressure-sensitive Adhesives Using a Full Factorial Design. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2017, 94, 713-721.	1.9	7
26	Image-based characterization of laser scribing quality using transfer learning. <i>Journal of Intelligent Manufacturing</i> , 2023, 34, 2307-2319.	7.3	7
27	Real-time detection of wave profile changes. <i>Computers and Industrial Engineering</i> , 2014, 75, 187-199.	6.3	6
28	Retrospective analysis for phase I statistical process control and process capability study using revised sample entropy. <i>Neural Computing and Applications</i> , 2019, 31, 7415-7428.	5.6	6
29	Economic design of two-stage non-central chi-square charts for dependent variables. <i>Computers and Industrial Engineering</i> , 2011, 61, 970-980.	6.3	5
30	A Visualization Decision Support Tool for Multivariate SPC Diagnosis Using Marginal CUSUM Glyphs. <i>Quality Engineering</i> , 2010, 22, 182-198.	1.1	4
31	Implementation of statistical process control framework with machine learning on waveform profiles with no gold standard reference. <i>Computers and Industrial Engineering</i> , 2020, 142, 106325.	6.3	4
32	Adaptive Exponentially Weighted Moving Average Schemes Using a Kalman Filter. <i>IIE Transactions</i> , 1990, 22, 361-369.	2.1	3
33	A Process Capability Analysis Method Using Adjusted Modified Sample Entropy. <i>Procedia Manufacturing</i> , 2016, 5, 122-131.	1.9	3
34	A DESIGN OF OPTIMUM SCREENING PROCEDURE USING SURROGATE VARIABLE. <i>International Journal of Reliability, Quality and Safety Engineering</i> , 2011, 18, 251-269.	0.6	1
35	Approaches to Implement Statistical Process Control for Manufacturing in Big Data Era. , 2017, , .		1
36	A new supply chain distribution network design for two classes of customers using transfer recurrent neural network. <i>International Journal of Systems Assurance Engineering and Management</i> , 2022, 13, 2604-2618.	2.4	1

#	ARTICLE	IF	CITATIONS
37	A control point methodology for CUSUM control charts. Computers and Industrial Engineering, 1998, 34, 565-572.	6.3	0
38	A review of: "Rivers Statistical Compendium" Kenneth Evans Time and Tide Ltd., 1997, £35. IIE Transactions, 1998, 30, 865-865.	2.1	0
39	Optimization of Input Variables in Ultrasonic Vibration-Assisted Pelleting of Cellulosic Biomass Using Multiple Response Surface Methodology. , 2013, , .		0
40	Identifying data-driven healthcare facilities: a case study in VHA hospitals. International Journal of Six Sigma and Competitive Advantage, 2016, 10, 98.	0.4	0