Douglas C Montgomery

List of Publications by Year
in descending order

40	1,160	471061	377514
papers	citations	17 h-index	34 g-index

46	46	46	820
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modified Desirability Functions for Multiple Response Optimization. Journal of Quality Technology, 1996, 28, 337-345.	1.8	301
2	PROCESS CAPABILITY INDICES AND NON-NORMAL DISTRIBUTIONS. Quality Engineering, 1996, 9, 305-316.	0.7	110
3	THE USE OF STATISTICAL PROCESS CONTROL AND DESIGN OF EXPERIMENTS IN PRODUCT AND PROCESS IMPROVEMENT. IIE Transactions, 1992, 24, 4-17.	2.1	70
4	USING FRACTIONAL FACTORIAL DESIGNS FOR ROBUST PROCESS DEVELOPMENT. Quality Engineering, 1990, 3, 193-205.	0.7	65
5	Statistical process monitoring with principal components. Quality and Reliability Engineering International, 1996, 12, 203-210.	1.4	58
6	Paper-based Vertical Flow Immunoassay (VFI) for detection of bio-threat pathogens. Talanta, 2019, 191, 81-88.	2.9	58
7	Multivariate statistical process monitoring and diagnosis with grouped regressionâ€adjusted variables. Communications in Statistics Part B: Simulation and Computation, 1999, 28, 309-328.	0.6	52
8	A timeâ€series approach to discrete realâ€time process quality control. Quality and Reliability Engineering International, 1989, 5, 309-317.	1.4	48
9	Shortâ€run statistical process control: Qâ€chart enhancements and alternative methods. Quality and Reliability Engineering International, 1994, 10, 87-97.	1.4	44
10	A review of statistical process control techniques for short run manufacturing systems. Communications in Statistics - Theory and Methods, 1996, 25, 2723-2737.	0.6	41
11	A FAST INITIAL RESPONSE SCHEME FOR THE EXPONENTIALLY WEIGHTED MOVING AVERAGE CONTROL CHART. Quality Engineering, 1996, 9, 317-327.	0.7	35
12	PREDICTION USING REGRESSION MODELS WITH MULTICOLLINEAR PREDICTOR VARIABLES. IIE Transactions, 1993, 25, 73-85.	2.1	28
13	Confidence intervals for variance components from gauge capability studies. Quality and Reliability Engineering International, 1997, 13, 361-369.	1.4	25
14	Improving the performance of the multivariate exponentially weighted moving average control chart. Quality and Reliability Engineering International, 1999, 15, 161-166.	1.4	23
15	Detection of process upsetsâ€"sample autocorrelation control chart and group autocorrelation control chart applications. Quality and Reliability Engineering International, 1991, 7, 133-140.	1.4	18
16	SOME CAUTIONS IN THE USE OF PLACKETT-BURMAN DESIGNS. Quality Engineering, 1997, 10, 371-381.	0.7	18
17	A biased-robust regression technique for the combined outlier-multicollinearity problem. Journal of Statistical Computation and Simulation, 1996, 56, 1-22.	0.7	17
18	Choice of second-order response surface designs for logistic and Poisson regression models. International Journal of Experimental Design and Process Optimisation, 2009, 1, 2.	0.1	17

#	Article	IF	Citations
19	Systems for modern quality and business improvement. Quality Technology and Quantitative Management, 2017, 14, 343-352.	1.1	17
20	MULTIVARIATE AND UNIVARIATE PROCESS CONTROL: GEOMETRY AND SHIFT DIRECTIONS. Quality and Reliability Engineering International, 1997, 13, 153-158.	1.4	16
21	The Use of Supersaturated Experiments in Turbine Engine Development. Quality Engineering, 2007, 19, 17-27.	0.7	14
22	AN APPLICATION OF STATISTICAL PROCESS CONTROL IN JET-TURBINE ENGINE COMPONENT MANUFACTURING. Quality Engineering, 1991, 4, 197-210.	0.7	12
23	OPTIMAL GUARD BANDS FOR GAUGES IN SERIES. Quality Engineering, 1996, 9, 167-177.	0.7	8
24	A robust regression technique using compound estimation. Naval Research Logistics, 1998, 45, 125-139.	1.4	8
25	Stu Hunter's Contributions to Experimental Design and Quality Engineering. Quality Engineering, 2014, 26, 5-15.	0.7	6
26	Simultaneous improvement of energy efficiency and product quality in PCB lamination process. International Journal of Precision Engineering and Manufacturing - Green Technology, 2014, 1, 247-256.	2.7	6
27	Partial replication of small two-level factorial designs. Quality Engineering, 2017, 29, 190-195.	0.7	6
28	50Âyears of the Journal of Quality Technology. Journal of Quality Technology, 2018, 50, 2-16.	1.8	6
29	A comparison of two-level designs to estimate all main effects and two-factor interactions. Quality Engineering, 2016, 28, 369-380.	0.7	5
30	FEEDBACK CONTROL AND STATISTICAL PROCESS MONITORING. International Journal of Reliability, Quality and Safety Engineering, 1996, 03, 231-241.	0.4	4
31	Visualization for Data Science: Adding Credibility, Legitimacy, and Saliency. Big Data, 2016, 4, 73-74.	2.1	4
32	Separation in Dâ€optimal experimental designs for the logistic regression model. Quality and Reliability Engineering International, 2019, 35, 776-787.	1.4	4
33	Fitting models to data: Interaction versus polynomial? your choice. Communications in Statistics - Theory and Methods, 1996, 25, 2531-2555.	0.6	3
34	Alternatives to resolution III regular fractional factorial designs for 9â€“14 factors in 16 runs. Applied Stochastic Models in Business and Industry, 2015, 31, 50-58.	0.9	3
35	Analysis of Subjective Ordinal Responses in Mixture Experiments. Journal of Quality Technology, 2016, 48, 196-208.	1.8	2
36	Partitioned Search with Column Resampling for Locating Array Construction. , 2019, , .		1

#	Article	IF	Citations
37	Non-sequential augmentation strategies to address separation in logistic regression. International Journal of Experimental Design and Process Optimisation, 2019, 6, 167.	0.1	1
38	Confidence intervals for variance components from gauge capability studies. Quality and Reliability Engineering International, 1997, 13, 361-369.	1.4	1
39	A compound optimality criterion for Dâ€efficient and separationâ€robust designs for the logistic regression model. Quality and Reliability Engineering International, 2020, , .	1.4	0
40	Aliased informed model selection strategies for sixâ€factor noâ€confounding designs. Quality and Reliability Engineering International, 2021, 37, 3055.	1.4	0