# William Q Meeker

List of Publications by Year
in descending order

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|---|---|---|---|
| 189<br>papers | 7,023<br>citations | 53794<br>45<br>h-index | 71685<br>76<br>g-index |
| 212<br>all docs | 212<br>docs citations | 212<br>times ranked | 3253<br>citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | A Review of Accelerated Test Models. Statistical Science, 2006, 21, 552. | 2.8 | 528 |
| 2 | Accelerated Degradation Tests: Modeling and Analysis. Technometrics, 1998, 40, 89-99. | 1.9 | 375 |
| 3 | Estimating Fatigue Curves With the Random Fatigue-Limit Model. Technometrics, 1999, 41, 277-289. | 1.9 | 205 |
| 4 | Teaching about Approximate Confidence Regions Based on Maximum Likelihood Estimation. American Statistician, 1995, 49, 48-53. | 1.6 | 196 |
| 5 | Reliability Meets Big Data: Opportunities and Challenges. Quality Engineering, 2014, 26, 102-116. | 1.1 | 166 |
| 6 | The nontruncated marginal of a truncated bivariate normal distribution. Psychometrika, 1993, 58, 471-488. | 2.1 | 160 |
| 7 | Theory for Optimum Accelerated Censored Life Tests for Weibull and Extreme Value Distributions. Technometrics, 1978, 20, 171-177. | 1.9 | 153 |
| 8 | A Comparison of Accelerated Life Test Plans for Weibull and Lognormal Distributions and Type I Censoring. Technometrics, 1984, 26, 157-171. | 1.9 | 130 |
| 9 | Assessing Influence in Regression Analysis with Censored Data. Biometrics, 1992, 48, 507. | 1.4 | 128 |
| 10 | A Review of Recent Research and Current Issues in Accelerated Testing. International Statistical Review, 1993, 61, 147. | 1.9 | 127 |
| 11 | Prediction of remaining life of power transformers based on left truncated and right censored lifetime data. Annals of Applied Statistics, 2009, 3, . | 1.1 | 122 |
| 12 | A Comparison of Maximum Likelihood and Median-Rank Regression for Weibull Estimation. Quality Engineering, 2010, 22, 236-255. | 1.1 | 114 |
| 13 | Accelerated Degradation Tests: Modeling and Analysis. Technometrics, 1998, 40, 89. | 1.9 | 109 |
| 14 | Bayesian Methods for Planning Accelerated Life Tests. Technometrics, 2006, 48, 49-60. | 1.9 | 100 |
| 15 | Statistical tools for the rapid development and evaluation of high-reliability products. IEEE Transactions on Reliability, 1995, 44, 187-198. | 4.6 | 95 |
| 16 | Optimum Accelerated Life-Tests for the Weibull and Extreme Value Distributions. IEEE Transactions on Reliability, 1975, R-24, 321-332. | 4.6 | 87 |
| 17 | Teaching about Approximate Confidence Regions Based on Maximum Likelihood Estimation. American Statistician, 1995, 49, 48. | 1.6 | 85 |
| 18 | Assumptions for Statistical Inference. American Statistician, 1993, 47, 1-11. | 1.6 | 80 |

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| 19 | Limited Failure Population Life Tests: Application to Integrated Circuit Reliability. Technometrics, 1987, 29, 51-65. | 1.9 | 76 |
| 20 | Optimum Accelerated Life Tests with a Nonconstant Scale Parameter. Technometrics, 1994, 36, 71. | 1.9 | 76 |
| 21 | Early Detection of Reliability Problems Using Information From Warranty Databases. Technometrics, 2002, 44, 120-133. | 1.9 | 74 |
| 22 | Pitfalls of accelerated testing. IEEE Transactions on Reliability, 1998, 47, 114-118. | 4.6 | 71 |
| 23 | Statistical Methods for Degradation Data With Dynamic Covariates Information andÂanÂApplication to Outdoor Weathering Data. Technometrics, 2015, 57, 180-193. | 1.9 | 69 |
| 24 | Optimum Accelerated Life Tests Wth a Nonconstant Scale Parameter. Technometrics, 1994, 36, 71-83. | 1.9 | 67 |
| 25 | An Accelerated Life Test Model Based on Reliability Kinetics. Technometrics, 1995, 37, 133-146. | 1.9 | 67 |
| 26 | Planning Accelerated Life Tests With Two or More Experimental Factors. Technometrics, 1995, 37, 411-427. | 1.9 | 67 |
| 27 | Accelerated Destructive Degradation Test Planning. Technometrics, 2009, 51, 1-13. | 1.9 | 67 |
| 28 | Using Accelerated Life Tests Results to Predict Product Field Reliability. Technometrics, 2009, 51, 146-161. | 1.9 | 66 |
| 29 | Bayesian life test planning for the Weibull distribution with given shape parameter. Metrika, 2005, 61, 237-249. | 0.8 | 65 |
| 30 | Theory for Optimum Accelerated Censored Life Tests for Weibull and Extreme Value Distributions. Technometrics, 1978, 20, 171. | 1.9 | 62 |
| 31 | Bayesian Methods for Accelerated Destructive Degradation Test Planning. IEEE Transactions on Reliability, 2012, 61, 245-253. | 4.6 | 61 |
| 32 | Field-Failure Predictions Based on Failure-Time Data With Dynamic Covariate Information. Technometrics, 2013, 55, 135-149. | 1.9 | 59 |
| 33 | Big data and reliability applications: The complexity dimension. Journal of Quality Technology, 2018, 50, 135-149. | 2.5 | 56 |
| 34 | Estimating Fatigue Curves with the Random Fatigue-Limit Model. Technometrics, 1999, 41, 277. | 1.9 | 56 |
| 35 | Application of Bayesian Methods in Reliability Data Analyses. Journal of Quality Technology, 2014, 46, 1-23. | 2.5 | 55 |
| 36 | Quantifying the vibrothermographic effect. NDT and E International, 2011, 44, 775-782. | 3.7 | 54 |

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| 37 | Asymptotically Optimum Over-Stress Tests to Estimate the Survival Probability at a Condition with a Low Expected Failure Probability. Technometrics, 1977, 19, 381-399. | 1.9 | 53 |
| 38 | Reliability: The Other Dimension of Quality. Quality Technology and Quantitative Management, 2004, 1, 1-25. | 1.9 | 53 |
| 39 | Accuracy of approx confidence bounds using censored Weibull regression data from accelerated life tests. IEEE Transactions on Reliability, 1990, 39, 346-351. | 4.6 | 50 |
| 40 | Statistical Prediction Based on Censored Life Data. Technometrics, 1999, 41, 113-124. | 1.9 | 50 |
| 41 | Comparisons of Approximate Confidence Interval Procedures for Type I Censored Data. Technometrics, 2000, 42, 135-148. | 1.9 | 50 |
| 42 | A Comparison of Accelerated Life Test Plans for Weibull and Lognormal Distributions and Type I Censoring. Technometrics, 1984, 26, 157. | 1.9 | 49 |
| 43 | Assumptions for Statistical Inference. American Statistician, 1993, 47, 1. | 1.6 | 48 |
| 44 | Analysis of Environmental Data with Censored Observations. Environmental Science &amp; Technology, 1997, 31, 3358-3362. | 10.0 | 46 |
| 45 | Methods for Planning Repeated Measures Degradation Studies. Technometrics, 2013, 55, 122-134. | 1.9 | 46 |
| 46 | Planning Life Tests in Which Units Are Inspected for Failure. IEEE Transactions on Reliability, 1986, 35, 571-578. | 4.6 | 45 |
| 47 | Algorithm AS 292: Fisher Information Matrix for the Extreme Value, Normal and Logistic Distributions and Censored Data. Journal of the Royal Statistical Society Series C: Applied Statistics, 1994, 43, 533. | 1.0 | 44 |
| 48 | Weibull Prediction Intervals for a Future Number of Failures. Technometrics, 2002, 44, 15-23. | 1.9 | 44 |
| 49 | Field-Failure and Warranty Prediction Based on Auxiliary Use-Rate Information. Technometrics, 2010, 52, 148-159. | 1.9 | 44 |
| 50 | Applications of Statistical Methods to Nondestructive Evaluation. Technometrics, 1996, 38, 95-112. | 1.9 | 43 |
| 51 | Limited Failure Population Life Tests: Application to Integrated Circuit Reliability. Technometrics, 1987, 29, 51. | 1.9 | 41 |
| 52 | Optimum step–stress accelerated life test plans for log–location–scale distributions. Naval Research Logistics, 2008, 55, 551-562. | 2.2 | 40 |
| 53 | Analysis of Fatigue Data with Runouts Based on a Model with Nonconstant Standard Deviation and a Fatigue Limit Parameter. Journal of Testing and Evaluation, 1997, 25, 292-301. | 0.7 | 39 |
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| 55 | A failure-time model for infant-mortality and wearout failure modes. IEEE Transactions on Reliability, 1999, 48, 377-387. | 4.6 | 34 |
| 56 | An Accelerated Life Test Model Based on Reliability Kinetics. Technometrics, 1995, 37, 133. | 1.9 | 34 |
| 57 | Detecting cracks in aircraft engine fan blades using vibrothermography nondestructive evaluation. Reliability Engineering and System Safety, 2014, 131, 229-235. | 8.9 | 33 |
| 58 | ACCELERATED DESTRUCTIVE DEGRADATION TESTS: DATA, MODELS, AND ANALYSIS. Series on Quality, Reliability and Engineering Statistics, 2003, , 319-337. | 0.2 | 31 |
| 59 | Methods for planning repeated measures accelerated degradation tests. Applied Stochastic Models in Business and Industry, 2014, 30, 658-671. | 1.5 | 30 |
| 60 | The Modified Sudden Death Test: Planning Life Tests with a Limited Number of Test Positions. Journal of Testing and Evaluation, 1998, 26, 434-443. | 0.7 | 30 |
| 61 | The Evaluation and Comparison of Experimental Designs for Fitting Regression Relationships. Journal of Quality Technology, 1976, 8, 140-157. | 2.5 | 28 |
| 62 | The Future of Industrial Statistics: A Panel Discussion. Technometrics, 2008, 50, 103-127. | 1.9 | 28 |
| 63 | Strategy for Planning Accelerated Life Tests With Small Sample Sizes. IEEE Transactions on Reliability, 2010, 59, 610-619. | 4.6 | 27 |
| 64 | Accuracy of approximate confidence bounds computed from interval censored weibull and lognormal data. Journal of Statistical Computation and Simulation, 1988, 29, 43-76. | 1.2 | 26 |
| 65 | Directions for improvement of substitute heart valves: National Heart, Lung, and Blood Institute's working group report on heart valves. , 1997, 38, 263-266. | | 26 |
| 66 | Sample Size and Number of Failure Requirements for Demonstration Tests With Log-Location-Scale Distributions and Failure Censoring. Technometrics, 2005, 47, 182-190. | 1.9 | 26 |
| 67 | A Tool for Evaluating Time-Varying-Stress Accelerated Life Test Plans With Log-Location-Scale Distributions. IEEE Transactions on Reliability, 2010, 59, 620-627. | 4.6 | 26 |
| 68 | Statistical Prediction Based on Censored Life Data. Technometrics, 1999, 41, 113. | 1.9 | 25 |
| 69 | Weibull Variances and Confidence Limits by Maximum Likelihood for Singly Censored Data. Technometrics, 1977, 19, 473-476. | 1.9 | 23 |
| 70 | Using Graphics and Simulation to Teach Statistical Concepts. American Statistician, 1996, 50, 342-351. | 1.6 | 23 |
| 71 | Comparisons of Approximate Confidence Interval Procedures for Type I Censored Data. Technometrics, 2000, 42, 135. | 1.9 | 23 |
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| 73 | Accelerated Destructive Degradation Tests Robust to Distribution Misspecification. IEEE Transactions on Reliability, 2011, 60, 701-711. | 4.6 | 22 |
| 74 | Weibull Percentile Estimates and Confidence Limits from Singly Censored Data by Maximum Likelihood. IEEE Transactions on Reliability, 1976, R-25, 20-24. | 4.6 | 21 |
| 75 | CENSOR-A User-Oriented Computer Program for Life Data Analysis. American Statistician, 1981, 35, 112. | 1.6 | 21 |
| 76 | Algorithm AS 218: Elements of the Fisher Information Matrix for the Smallest Extreme Value Distribution and Censored Data. Journal of the Royal Statistical Society Series C: Applied Statistics, 1986, 35, 80. | 1.0 | 21 |
| 77 | THE ASYMPTOTIC EQUIVALENCE OF THE FISHER INFORMATION MATRICES FOR TYPE I AND TYPE II CENSORED DATA FROM LOCATION-SCALE FAMILIES. Communications in Statistics - Theory and Methods, 2001, 30, 2211-2225. | 1.0 | 21 |
| 78 | Applications of the Fractional-Random-Weight Bootstrap. American Statistician, 2020, 74, 345-358. | 1.6 | 21 |
| 79 | Linking Accelerated Laboratory Test with Outdoor Performance Results for a Model Epoxy Coating System. , 2009, , 3-28. | | 21 |
| 80 | Bayesian Life Test Planning for Log-Location-Scale Family of Distributions. Journal of Quality Technology, 2015, 47, 336-350. | 2.5 | 20 |
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| 82 | Classification With the Matrix-Variate-$t$ Distribution. Journal of Computational and Graphical Statistics, 2020, 29, 668-674. | 1.7 | 19 |
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| 84 | Using Graphics and Simulation to Teach Statistical Concepts. American Statistician, 1996, 50, 342. | 1.6 | 18 |
| 85 | Block Bootstrap Estimation of the Distribution of Cumulative Outdoor Degradation. Technometrics, 2004, 46, 215-224. | 1.9 | 18 |
| 86 | Using Accelerated Tests to Predict Service Life in Highly Variable Environments. ACS Symposium Series, 2001, , 396-413. | 0.5 | 17 |
| 87 | Quantitative Multi-Inspection-Site Comparison of Probability of Detection for Vibrothermography Nondestructive Evaluation Data. Journal of Nondestructive Evaluation, 2011, 30, 172-178. | 2.4 | 16 |
| 88 | The Number of MCMC Draws Needed to Compute Bayesian Credible Bounds. American Statistician, 2016, 70, 275-284. | 1.6 | 16 |
| 89 | Applications of Statistical Methods to Nondestructive Evaluation. Technometrics, 1996, 38, 95. | 1.9 | 16 |
| 90 | Pitfalls and Practical Considerations in Product Life Analysisâ€"Part I: Basic Concepts and Dangers of Extrapolation. Journal of Quality Technology, 1982, 14, 144-152. | 2.5 | 15 |

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| 91 | Joint Estimation of NDE Inspection Capability and Flaw-Size Distribution for In-Service Aircraft Inspections. Research in Nondestructive Evaluation, 2012, 23, 104-123. | 1.1 | 15 |
| 92 | Mixture Representations of Reliability in Coherent Systems and Preservation Results Under Double Monitoring. Communications in Statistics - Theory and Methods, 2013, 42, 385-397. | 1.0 | 15 |
| 93 | A Multi-Level Trend-Renewal Process for Modeling Systems With Recurrence Data. Technometrics, 2017, 59, 225-236. | 1.9 | 15 |
| 94 | Planning accelerated life tests with type II censored data. Journal of Statistical Computation and Simulation, 1986, 23, 273-297. | 1.2 | 14 |
| 95 | Parametric Simultaneous Confidence Bands for Cumulative Distributions From Censored Data. Technometrics, 2001, 43, 450-461. | 1.9 | 14 |
| 96 | Accelerated Life Test Models and Data Analysis. , 2006, , 397-426. | | 14 |
| 97 | Analysis of Window-Observation Recurrence Data. Technometrics, 2008, 50, 128-143. | 1.9 | 14 |
| 98 | An Engineer's Guide to Books on Statistics and Data Analysis. Journal of Quality Technology, 1984, 16, 196-218. | 2.5 | 13 |
| 99 | Physical Model-Assisted Probability of Detection of Flaws in Titanium Forgings Using Ultrasonic Nondestructive Evaluation. Technometrics, 2014, 56, 78-91. | 1.9 | 13 |
| 100 | Understanding and Addressing the Unbounded "Likelihood" Problem. American Statistician, 2015, 69, 191-200. | 1.6 | 13 |
| 101 | Assessing Risk of a Serious Failure Mode Based on Limited Field Data. IEEE Transactions on Reliability, 2015, 64, 51-62. | 4.6 | 13 |
| 102 | A Statistical Model for Linking Field and Laboratory Exposure Results for a Model Coating. , 2009, , 29-43. | | 13 |
| 103 | Seasonal warranty prediction based on recurrent event data. Annals of Applied Statistics, 2020, 14, . | 1.1 | 13 |
| 104 | The Relationship Between Confidence Intervals for Failure Probabilities and Life Time Quantiles. IEEE Transactions on Reliability, 2008, 57, 260-266. | 4.6 | 12 |
| 105 | Statistical methods for automatic crack detection based on vibrothermography sequence-of-images data. Applied Stochastic Models in Business and Industry, 2010, 26, 481-495. | 1.5 | 12 |
| 106 | A Comparison of Accelerated Test Plans to Estimate the Survival Probability at a Design Stress. Technometrics, 1978, 20, 245-247. | 1.9 | 11 |
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| 109 | Asymptotically Optimum Over-Stress Tests to Estimate the Survival Probability at a Condition with a Low Expected Failure Probability. Technometrics, 1977, 19, 381. | 1.9 | 11 |
| 110 | Weibull Variances and Confidence Limits by Maximum Likelihood for Singly Censored Data. Technometrics, 1977, 19, 473. | 1.9 | 11 |
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| 112 | Confidence interval procedures for system reliability and applications to competing risks models. Lifetime Data Analysis, 2014, 20, 161-184. | 0.9 | 10 |
| 113 | A Hierarchical Model for Heterogenous Reliability Field Data. Technometrics, 2019, 61, 354-368. | 1.9 | 10 |
| 114 | A Computer Program for Evaluating and Comparing Experimental Designs and Some Applications. American Statistician, 1975, 29, 60. | 1.6 | 9 |
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| 117 | A BAYESIAN ON-LINE CHANGE DETECTION ALGORITHM WITH PROCESS MONITORING APPLICATIONS. Quality Engineering, 1998, 10, 539-549. | 1.1 | 9 |
| 118 | Photodegradation modeling based on laboratory accelerated test data and predictions under outdoor weathering for polymeric materials. Annals of Applied Statistics, 2017, 11, . | 1.1 | 9 |
| 119 | Bayesian Methods for Planning Accelerated Repeated Measures Degradation Tests. Technometrics, 2021, 63, 90-99. | 1.9 | 9 |
| 120 | A Computer Program for Evaluating and Comparing Experimental Designs and Some Applications. American Statistician, 1975, 29, 60-64. | 1.6 | 8 |
| 121 | Prediction Intervals for the Ratios of Normal Distribution Sample Variances and Exponential Distribution Sample Means. Technometrics, 1980, 22, 357-366. | 1.9 | 8 |
| 122 | Evaluating the involvement of tryptophan on thiolated peptide-mercury(II) complexes: Cation-pi interactions. Inorganica Chimica Acta, 2020, 506, 119552. | 2.4 | 8 |
| 123 | Improved Methodology for Inspection Reliability Assessment for Detecting Synthetic Hard Alpha Inclusions in Titanium. , 1998, , 2061-2068. | | 8 |
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| 125 | Maximum Likelihood Methods for Fitting Parametric Statistical Models. Methods in Experimental Physics, 1994, , 211-244. | 0.1 | 7 |
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| 127 | Maintenance and recurrent event analysis of circuit breaker data. International Journal of Quality and Reliability Management, 2012, 29, 560-575. | 2.0 | 7 |
| 128 | Two-sided tolerance intervals for members of the (log)-location-scale family of distributions. Quality Technology and Quantitative Management, 2018, 15, 374-392. | 1.9 | 7 |
| 129 | Trends in the Statistical Assessment of Reliability. , 2010, , 3-16. | | 7 |
| 130 | A Comparison of Accelerated Test Plans to Estimate the Survival Probability at a Design Stress. Technometrics, 1978, 20, 245. | 1.9 | 7 |
| 131 | Evaluating the Effect of Incorrect Specification of a Regression Model. Journal of Quality Technology, 1978, 10, 61-72. | 2.5 | 6 |
| 132 | Evaluating the Effect of Incorrect Specification of a Regression Model. Journal of Quality Technology, 1978, 10, 93-98. | 2.5 | 6 |
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| 134 | A transformer health assessment ranking method: Use of model based scoring expert system. , 2009, , . | | 6 |
| 135 | Prediction of Future Failures for Heterogeneous Reliability Field Data. Technometrics, 2022, 64, 125-138. | 1.9 | 6 |
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| 137 | Simultaneous confidence bands and regions for log-location-scale distributions with censored data. Journal of Statistical Planning and Inference, 2009, 139, 3231-3245. | 0.6 | 5 |
| 138 | Coverage probabilities of simultaneous confidence bands and regions for log-location-scale distributions. Statistics and Probability Letters, 2010, 80, 733-738. | 0.7 | 5 |
| 139 | A Statistical Framework for Improved Automatic Flaw Detection in Nondestructive Evaluation Images. Technometrics, 2017, 59, 247-261. | 1.9 | 5 |
| 140 | Integrated Decision Algorithms for Auto-steered Electric Transmission System Asset Management. Lecture Notes in Computer Science, 2007, , 1066-1073. | 1.3 | 5 |
| 141 | Improved Methodology for Predicting POD of Detecting Synthetic Hard Alpha Inclusions in Titanium. , 1997, , 2021-2028. | | 5 |
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| 149 | A latent spatial piecewise exponential model for interval-censored disease surveillance data with time-varying covariates and misclassification. Statistics and Its Interface, 2019, 12, 11-19. | 0.3 | 4 |
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| 151 | Using degradation models to assess pipeline life. Applied Stochastic Models in Business and Industry, 2019, 35, 1411-1430. | 1.5 | 3 |
| 152 | Predicting the Number of Future Events. Journal of the American Statistical Association, 2022, 117, 1296-1310. | 3.1 | 3 |
| 153 | Quantitative matching of forensic evidence fragments utilizing <scp>3D</scp> microscopy analysis of fracture surface replicas. Journal of Forensic Sciences, 2022, 67, 899-910. | 1.6 | 3 |
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| 155 | Pitfalls and Practical Considerations in Product Life Analysisâ€"Part II: Mixtures of Product Populations and More General Models. Journal of Quality Technology, 1982, 14, 177-185. | 2.5 | 2 |
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| 161 | Sensitivity Analysis to Assess the Effects of Misses in the Estimation of POD from Field Inspection Data. AIP Conference Proceedings, 2007, , . | 0.4 | 2 |
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| 173 | Bayesian planning of hit-miss inspection tests. , 2014, , . | | 1 |
| 174 | Rejoinder: Methods for planning repeated measures accelerated degradation tests. Applied Stochastic Models in Business and Industry, 2014, 30, 686-690. | 1.5 | 1 |
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