

Gwowen Shieh

List of Publications by Year in descending order

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74
papers

1,340
citations

361296

20
h-index

377752

34
g-index

75
all docs

75
docs citations

75
times ranked

1701
citing authors

#	ARTICLE	IF	CITATIONS
1	Detecting Interaction Effects in Moderated Multiple Regression With Continuous Variables Power and Sample Size Considerations. <i>Organizational Research Methods</i> , 2009, 12, 510-528.	5.6	129
2	Clarifying the role of mean centring in multicollinearity of interaction effects. <i>British Journal of Mathematical and Statistical Psychology</i> , 2011, 64, 462-477.	1.0	129
3	Efficacy of intravenously administered theophylline in children hospitalized with severe asthma. <i>Journal of Pediatrics</i> , 1993, 122, 470-476.	0.9	76
4	Choosing the best index for the average score intraclass correlation coefficient. <i>Behavior Research Methods</i> , 2016, 48, 994-1003.	2.3	65
5	Does Aminophylline Benefit Adults Admitted to the Hospital for an Acute Exacerbation of Asthma?. <i>Annals of Internal Medicine</i> , 1993, 119, 1155.	2.0	56
6	On the Misconception of Multicollinearity in Detection of Moderating Effects: Multicollinearity Is Not Always Detrimental. <i>Multivariate Behavioral Research</i> , 2010, 45, 483-507.	1.8	52
7	Sample size determinations for Welch's test in one-way heteroscedastic ANOVA. <i>British Journal of Mathematical and Statistical Psychology</i> , 2014, 67, 72-93.	1.0	51
8	On Power and Sample Size Calculations for Likelihood Ratio Tests in Generalized Linear Models. <i>Biometrics</i> , 2000, 56, 1192-1196.	0.8	48
9	Improved Shrinkage Estimation of Squared Multiple Correlation Coefficient and Squared Cross-Validity Coefficient. <i>Organizational Research Methods</i> , 2008, 11, 387-407.	5.6	45
10	On power and sample size determinations for the Wilcoxon "Mann" Whitney test. <i>Journal of Nonparametric Statistics</i> , 2006, 18, 33-43.	0.4	44
11	Power and sample size determinations for the Wilcoxon signed-rank test. <i>Journal of Statistical Computation and Simulation</i> , 2007, 77, 717-724.	0.7	41
12	Sample size calculations for logistic and Poisson regression models. <i>Biometrika</i> , 2001, 88, 1193-1199.	1.3	33
13	Suppression Situations in Multiple Linear Regression. <i>Educational and Psychological Measurement</i> , 2006, 66, 435-447.	1.2	32
14	Estimation of the simple correlation coefficient. <i>Behavior Research Methods</i> , 2010, 42, 906-917.	2.3	27
15	The appropriateness of Bland-Altman's approximate confidence intervals for limits of agreement. <i>BMC Medical Research Methodology</i> , 2018, 18, 45.	1.4	25
16	A comparison of two indices for the intraclass correlation coefficient. <i>Behavior Research Methods</i> , 2012, 44, 1212-1223.	2.3	24
17	Sample size determination for confidence intervals of interaction effects in moderated multiple regression with continuous predictor and moderator variables. <i>Behavior Research Methods</i> , 2010, 42, 824-835.	2.3	23
18	The Inequality Between the Coefficient of Determination and the Sum of Squared Simple Correlation Coefficients. <i>American Statistician</i> , 2001, 55, 121-124.	0.9	22

#	ARTICLE	IF	CITATIONS
19	Power Analysis and Sample Size Planning in ANCOVA Designs. <i>Psychometrika</i> , 2020, 85, 101-120.	1.2	22
20	On power and sample size calculations for Wald tests in generalized linear models. <i>Journal of Statistical Planning and Inference</i> , 2005, 128, 43-59.	0.4	21
21	Sample size requirements for the design of reliability studies: precision consideration. <i>Behavior Research Methods</i> , 2014, 46, 808-822.	2.3	21
22	Exact Power and Sample Size Calculations for the Two One-Sided Tests of Equivalence. <i>PLoS ONE</i> , 2016, 11, e0162093.	1.1	21
23	Exact Interval Estimation, Power Calculation, and Sample Size Determination in Normal Correlation Analysis. <i>Psychometrika</i> , 2006, 71, 529-540.	1.2	20
24	Assessing Agreement Between Two Methods of Quantitative Measurements: Exact Test Procedure and Sample Size Calculation. <i>Statistics in Biopharmaceutical Research</i> , 2020, 12, 352-359.	0.6	20
25	Optimal sample sizes for Welch's test under various allocation and cost considerations. <i>Behavior Research Methods</i> , 2011, 43, 1014-1022.	2.3	19
26	A random coefficient growth curve analysis of mental development in low-birth-weight infants. <i>Statistics in Medicine</i> , 1992, 11, 243-256.	0.8	17
27	Power and Sample Size Calculations for Contrast Analysis in ANCOVA. <i>Multivariate Behavioral Research</i> , 2017, 52, 1-11.	1.8	16
28	The Bland-Altman range of agreement: Exact interval procedure and sample size determination. <i>Computers in Biology and Medicine</i> , 2018, 100, 247-252.	3.9	16
29	Effect size, statistical power, and sample size for assessing interactions between categorical and continuous variables. <i>British Journal of Mathematical and Statistical Psychology</i> , 2019, 72, 136-154.	1.0	16
30	A comparison of two approaches for power and sample size calculations in logistic regression models. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2000, 29, 763-791.	0.6	15
31	Detection of interactions between a dichotomous moderator and a continuous predictor in moderated multiple regression with heterogeneous error variance. <i>Behavior Research Methods</i> , 2009, 41, 61-74.	2.3	15
32	Optimal sample size allocation for Welch's test in one-way heteroscedastic ANOVA. <i>Behavior Research Methods</i> , 2015, 47, 374-383.	2.3	14
33	The effectiveness of randomized complete block design. <i>Statistica Neerlandica</i> , 2004, 58, 111-124.	0.9	13
34	Sample size calculations for model validation in linear regression analysis. <i>BMC Medical Research Methodology</i> , 2019, 19, 54.	1.4	12
35	A Comparative Study of Power and Sample Size Calculations for Multivariate General Linear Models. <i>Multivariate Behavioral Research</i> , 2003, 38, 285-307.	1.8	11
36	Empirical Bayes minimax estimators of matrix normal means. <i>Journal of Multivariate Analysis</i> , 1991, 38, 306-318.	0.5	10

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37	Power and sample size calculations for multivariate linear models with random explanatory variables. <i>Psychometrika</i> , 2005, 70, 347-358.	1.2	10
38	Optimal sample sizes for the design of reliability studies: Power consideration. <i>Behavior Research Methods</i> , 2014, 46, 772-785.	2.3	10
39	A Unified Approach to Power Calculation and Sample Size Determination for Random Regression Models. <i>Psychometrika</i> , 2007, 72, 347-360.	1.2	8
40	Power and sample size calculations for comparison of two regression lines with heterogeneous variances. <i>PLoS ONE</i> , 2018, 13, e0207745.	1.1	8
41	Confidence intervals and sample size calculations for the weighted eta-squared effect sizes in one-way heteroscedastic ANOVA. <i>Behavior Research Methods</i> , 2013, 45, 25-37.	2.3	7
42	Methodological and computational considerations for multiple correlation analysis. <i>Behavior Research Methods</i> , 2007, 39, 731-734.	2.3	6
43	Determining Sample Size With a Given Range of Mean Effects in One-Way Heteroscedastic Analysis of Variance. <i>Journal of Experimental Education</i> , 2013, 81, 281-294.	1.6	5
44	Determining Sample Sizes for Precise Contrast Analysis With Heterogeneous Variances. <i>Journal of Educational and Behavioral Statistics</i> , 2014, 39, 91-116.	1.0	5
45	Optimal Sample Size Determinations for the Heteroscedastic Two One-Sided Tests of Mean Equivalence. <i>Journal of Educational and Behavioral Statistics</i> , 2017, 42, 145-165.	1.0	5
46	Precise confidence intervals of regression-based reference limits: Method comparisons and sample size requirements. <i>Computers in Biology and Medicine</i> , 2017, 91, 191-197.	3.9	5
47	Sample size requirements for interval estimation of the strength of association effect sizes in multiple regression analysis. <i>Psicothema</i> , 2013, 25, 402-7.	0.7	5
48	Optimal sample sizes for precise interval estimation of Welch's procedure under various allocation and cost considerations. <i>Behavior Research Methods</i> , 2012, 44, 202-212.	2.3	4
49	A comparative appraisal of two equivalence tests for multiple standardized effects. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 126, 110-117.	2.6	4
50	Exact Analysis of Squared Cross-Validity Coefficient in Predictive Regression Models. <i>Multivariate Behavioral Research</i> , 2009, 44, 82-105.	1.8	3
51	Confidence intervals and sample size calculations for the standardized mean difference effect size between two normal populations under heteroscedasticity. <i>Behavior Research Methods</i> , 2013, 45, 955-967.	2.3	3
52	On tests of treatment-covariate interactions: An illustration of appropriate power and sample size calculations. <i>PLoS ONE</i> , 2017, 12, e0177682.	1.1	3
53	Sample size determination for examining interaction effects in factorial designs under variance heterogeneity.. <i>Psychological Methods</i> , 2018, 23, 113-124.	2.7	3
54	Nonparametric Multiple Test Procedures for Dose Finding. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2004, 33, 1021-1037.	0.6	2

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55	The power of approximate degrees of freedom tests in heteroscedastic factorial designs. Behavior Research Methods, 2015, 47, 871-883.	2.3	2
56	Sample Size Calculations for Precise Interval Estimation of the Eta-Squared Effect Size. Journal of Experimental Education, 2015, 83, 203-217.	1.6	2
57	On Sample-Size Calculations for Precise Contrast Analysis in ANCOVA. Journal of Experimental Education, 2019, 87, 238-259.	1.6	2
58	On the Extended Welch Test for Assessing Equivalence of Standardized Means. Statistics in Biopharmaceutical Research, 2020, 12, 344-351.	0.6	2
59	Appraising Minimum Effect of Standardized Contrasts in ANCOVA Designs: Statistical Power, Sample Size, and Covariate Imbalance Considerations. Statistics in Biopharmaceutical Research, 2021, 13, 468-475.	0.6	2
60	Comparison of alternative approaches for difference, noninferiority, and equivalence testing of normal percentiles. BMC Medical Research Methodology, 2020, 20, 59.	1.4	2
61	EMPIRICAL BAYES MINIMAX ESTIMATORS OF MATRIX NORMAL MEANS FOR ARBITRARY QUADRATIC LOSS AND UNKNOWN COVARIANCE MATRIX. Statistics and Risk Modeling, 1993, 11, .	0.7	1
62	General multivariate linear models for longitudinal studies. Communications in Statistics - Theory and Methods, 2000, 29, 735-753.	0.6	1
63	Bayesian Prediction Analysis for Growth Curve Model Using Noninformative Priors. Annals of the Institute of Statistical Mathematics, 2002, 54, 324-337.	0.5	1
64	The impact of ignoring random features of predictor and moderator variables on sample size for precise interval estimation of interaction effects. Behavior Research Methods, 2011, 43, 1075-1084.	2.3	1
65	A systematic approach to designing statistically powerful heteroscedastic 2 ² factorial studies while minimizing financial costs. BMC Medical Research Methodology, 2016, 16, 114.	1.4	1
66	The equivalence of two approaches to incorporating variance uncertainty in sample size calculations for linear statistical models. Journal of Applied Statistics, 2017, 44, 40-56.	0.6	1
67	On Detecting a Minimal Important Difference among Standardized Means. Current Psychology, 2018, 37, 640-647.	1.7	1
68	Optimal contrast analysis with heterogeneous variances and budget concerns. PLoS ONE, 2019, 14, e0214391.	1.1	1
69	Improved procedures and computer programs for equivalence assessment of correlation coefficients. PLoS ONE, 2021, 16, e0252323.	1.1	1
70	Assessing individual equivalence in parallel group and crossover designs: Exact test and sample size procedures. PLoS ONE, 2022, 17, e0269128.	1.1	1
71	Simultaneous identifications of the minimum effective dose in each of several groups. Journal of Statistical Computation and Simulation, 2007, 77, 149-161.	0.7	0
72	A Comparative Study of TOST and UMPT Procedures for Evaluating Dispersion Equivalence. Statistics in Biopharmaceutical Research, 2020, , 1-6.	0.6	0

#	ARTICLE	IF	CITATIONS
73	Probing categorical moderation under variance heterogeneity.. Psychological Methods, 2021, 26, 315-326.	2.7	0
74	Exact Properties of Some Heteroscedastic TOST Alternatives for Bioequivalence. Statistics in Biopharmaceutical Research, 0, , 1-10.	0.6	0