Hongquan Xu

List of Publications by Year
in descending order

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54 papers	1,481 citations	304743 22 h-index	345221 36 g-index
55 all docs	55 docs citations	55 times ranked	568 citing authors

#	Article	IF	Citations
1	On Design Orthogonality, Maximin Distance, and Projection Uniformity for Computer Experiments. Journal of the American Statistical Association, 2022, 117, 375-385.	3.1	20
2	A minimum aberration-type criterion for selecting space-filling designs. Biometrika, 2022, 109, 489-501.	2.4	9
3	Design of computer experiments for developing seismic surrogate models. Earthquake Spectra, 2022, 38, 384-406.	3.1	2
4	Monocytes engineered with <scp>iSNAP</scp> inhibit human <scp>Bâ€lymphoma</scp> progression. Bioengineering and Translational Medicine, 2022, 7, .	7.1	3
5	Orthogonal array composite designs for drug combination experiments with applications for tuberculosis. Statistics in Medicine, 2022, , .	1.6	1
6	A Component-Position Model, Analysis and Design for Order-of-Addition Experiments. Technometrics, 2021, 63, 212-224.	1.9	22
7	A mapping-based universal Kriging model for order-of-addition experiments in drug combination studies. Computational Statistics and Data Analysis, 2021, 157, 107155.	1.2	6
8	Orthogonal subsampling for big data linear regression. Annals of Applied Statistics, 2021, 15, .	1.1	17
9	Harnessing an Artificial Intelligence Platform to Dynamically Individualize Combination Therapy for Treating Colorectal Carcinoma in a Rat Model. Advanced Therapeutics, 2020, 3, 1900127.	3.2	7
10	Simultaneous Optimization of Drug Combination Doseâ€Ratio Sequence with Innovative Design and Active Learning. Advanced Therapeutics, 2020, 3, 1900135.	3.2	10
11	Construction of Two-Level Nonregular Designs of Strength Three With Large Run Sizes. Technometrics, 2019, 61, 341-353.	1.9	8
12	Uniform projection designs. Annals of Statistics, 2019, 47, .	2.6	41
13	Application of kriging models for a drug combination experiment on lung cancer. Statistics in Medicine, 2019, 38, 236-246.	1.6	17
14	On the connection between maximin distance designs and orthogonal designs. Biometrika, 2018, 105, 471-477.	2.4	14
15	Optimal maximin L_{1}-distance Latin hypercube designs based on good lattice point designs. Annals of Statistics, 2018, 46, .	2.6	33
16	Construction of Maximin Distance Designs via Level Permutation and Expansion. Statistica Sinica, 2018, , .	0.3	9
17	Construction of maximin distance Latin squares and related Latin hypercube designs. Biometrika, 2017, 104, 455-464.	2.4	24
18	Minimum aberration designs for discrete choice experiments. Journal of Statistical Theory and Practice, 2017, 11, 339-360.	0.5	2

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19	Composite Designs Based on Orthogonal Arrays and Definitive Screening Designs. Journal of the American Statistical Association, 2017, 112, 1675-1683.	3.1	21
20	Use of Orthogonal Array Composite Designs to Study Lipid Accumulation in a Cell-Free System. Quality and Reliability Engineering International, 2016, 32, 1965-1974.	2.3	8
21	Data-driven desirability function to measure patientsâ€™ disease progression in a longitudinal study. Journal of Applied Statistics, 2016, 43, 783-795.	1.3	2
22	Using blocked fractional factorial designs to construct discrete choice experiments for healthcare studies. Statistics in Medicine, 2016, 35, 2543-2560.	1.6	27
23	Space-filling properties of good lattice point sets. Biometrika, 2015, 102, 959-966.	2.4	40
24	Discovery of a low order drug-cell response surface for applications in personalized medicine. Physical Biology, 2014, 11, 065003.	1.8	29
25	An application of a Hill-based response surface model for a drug combination experiment on lung cancer. Statistics in Medicine, 2014, 33, 4227-4236.	1.6	8
26	Space-Filling Fractional Factorial Designs. Journal of the American Statistical Association, 2014, 109, 1134-1144.	3.1	57
27	Use of Fractional Factorial Designs in Antiviral Drug Studies. Quality and Reliability Engineering International, 2013, 29, 299-304.	2.3	29
28	Balancing Location and Dispersion Effects for Multiple Responses. Quality and Reliability Engineering International, 2013, 29, 607-615.	2.3	6
29	An effective construction method for multi-level uniform designs. Journal of Statistical Planning and Inference, 2013, 143, 1583-1589.	0.6	38
30	Application of fractional factorial designs to study drug combinations. Statistics in Medicine, 2013, 32, 307-318.	1.6	50
31	An augmented approach to the desirability function. Journal of Applied Statistics, 2012, 39, 599-613.	1.3	13
32	Uniform fractional factorial designs. Annals of Statistics, 2012, 40, .	2.6	57
33	One-eighth- and one-sixteenth-fraction quaternary code designs with high resolution. Journal of Statistical Planning and Inference, 2012, 142, 1073-1080.	0.6	11
34	A quasiFâ€test for functional linear models with functional covariates and its application to longitudinal data. Statistics in Medicine, 2011, 30, 2842-2853.	1.6	2
35	Minimum aberration blocking schemes for 128-run designs. Journal of Statistical Planning and Inference, 2010, 140, 3213-3229.	0.6	17
36	The need of considering the interactions in the analysis of screening designs. Journal of Chemometrics, 2009, 23, 545-553.	1.3	28

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37	Analysis of supersaturated designs via the Dantzig selector. Journal of Statistical Planning and Inference, 2009, 139, 2362-2372.	0.6	75
38	Algorithmic Construction of Efficient Fractional Factorial Designs With Large Run Sizes. Technometrics, 2009, 51, 262-277.	1.9	36
39	The use of nonregular fractional factorial designs in combination toxicity studies. Food and Chemical Toxicology, 2009, 47, 2183-2188.	3.6	20
40	Recent developments in nonregular fractional factorial designs. Statistics Surveys, 2009, 3, .	11.3	63
41	A complementary design theory for doubling. Annals of Statistics, 2008, 36, .	2.6	25
42	Diagnostics for Linear Models With Functional Responses. Technometrics, 2007, 49, 26-33.	1.9	18
43	Functional regression analysis using anF test for longitudinal data with large numbers of repeated measures. Statistics in Medicine, 2007, 26, 1552-1566.	1.6	22
44	Blocked regular fractional factorial designs with minimum aberration. Annals of Statistics, 2006, 34, 2534.	2.6	19
45	Minimum aberration blocking schemes for two- and three-level fractional factorial designs. Journal of Statistical Planning and Inference, 2006, 136, 4088-4118.	0.6	20
46	A catalogue of three-level regular fractional factorial designs. Metrika, 2005, 62, 259-281.	0.8	47
47	Construction of optimal multi-level supersaturated designs. Annals of Statistics, 2005, 33, 2811.	2.6	59
48	Some nonregular designs from the Nordstromâ€“Robinson code and their statistical properties. Biometrika, 2005, 92, 385-397.	2.4	23
49	Moment Aberration Projection for Nonregular Fractional Factorial Designs. Technometrics, 2005, 47, 121-131.	1.9	35
50	Optimal Projective Three-Level Designs for Factor Screening and Interaction Detection. Technometrics, 2004, 46, 280-292.	1.9	57
51	An Algorithm for Constructing Orthogonal and Nearly-Orthogonal Arrays With Mixed Levels and Small Runs. Technometrics, 2002, 44, 356-368.	1.9	106
52	A smooth response surface algorithm for constructing a gene regulatory network. Physiological Genomics, 2002, 11, 11-20.	2.3	23
53	Generalized minimum aberration for asymmetrical fractional factorial designs. Annals of Statistics, 2001, 29, 1066.	2.6	144
54	Utilizing individual clear effects for intelligent factor allocations and design selections. Journal of Quality Technology, 0, , 1-15.	2.5	0