

Abhyuday Mandal

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

364
citations

840776

11
h-index

839539

18
g-index

31
all docs

31
docs citations

31
times ranked

305
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Model Selection by Testing for the Presence of Small-Area Effects, and Application to Area-Level Data. <i>Journal of the American Statistical Association</i> , 2011, 106, 362-374. | 3.1 | 55 |
| 2 | Protein-based bioplastics and their antibacterial potential. <i>Journal of Applied Polymer Science</i> , 2015, 132, . | 2.6 | 52 |
| 3 | Identifying Promising Compounds in Drug Discovery: Genetic Algorithms and Some New Statistical Techniques. <i>Journal of Chemical Information and Modeling</i> , 2007, 47, 981-988. | 5.4 | 28 |
| 4 | QPSO: A Quantum-Behaved Particle Swarm Technique for Finding D-Optimal Designs With Discrete and Continuous Factors and a Binary Response. <i>Technometrics</i> , 2019, 61, 77-87. | 1.9 | 23 |
| 5 | LowCon: A Design-based Subsampling Approach in a Misspecified Linear Model. <i>Journal of Computational and Graphical Statistics</i> , 2021, 30, 694-708. | 1.7 | 22 |
| 6 | Prenatal exposure to bisphenols affects pregnancy outcomes and offspring development in rats. <i>Chemosphere</i> , 2021, 276, 130118. | 8.2 | 22 |
| 7 | SELC: Sequential Elimination of Level Combinations by Means of Modified Genetic Algorithms. <i>Technometrics</i> , 2006, 48, 273-283. | 1.9 | 21 |
| 8 | Independent and combined effects of Bisphenol A and Diethylhexyl Phthalate on gestational outcomes and offspring development in Sprague-Dawley rats. <i>Chemosphere</i> , 2021, 263, 128307. | 8.2 | 18 |
| 9 | Optimal designs for two-level factorial experiments with binary response. <i>Statistica Sinica</i> , 2012, 22, . | 0.3 | 17 |
| 10 | Optimal Crossover Designs for Generalized Linear Models. <i>Journal of Statistical Theory and Practice</i> , 2020, 14, 1. | 0.5 | 14 |
| 11 | Using Differential Evolution to design optimal experiments. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 199, 103955. | 3.5 | 13 |
| 12 | Microencapsulation of retinyl palmitate by melt dispersion for cosmetic application. <i>Journal of Microencapsulation</i> , 2020, 37, 205-219. | 2.8 | 11 |
| 13 | D-optimal Factorial Designs under Generalized Linear Models. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2015, 44, 2264-2277. | 1.2 | 10 |
| 14 | Robust Hierarchical Bayes Small Area Estimation for the Nested Error Linear Regression Model. <i>International Statistical Review</i> , 2019, 87, S158-S176. | 1.9 | 8 |
| 15 | G -SELC: Optimization by sequential elimination of level combinations using genetic algorithms and Gaussian processes. <i>Annals of Applied Statistics</i> , 2009, 3, . | 1.1 | 8 |
| 16 | Nitric oxide-releasing antibacterial albumin plastic for biomedical applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1535-1542. | 4.0 | 7 |
| 17 | Identification of predictive MRI and functional biomarkers in a pediatric piglet traumatic brain injury model. <i>Neural Regeneration Research</i> , 2021, 16, 338. | 3.0 | 7 |
| 18 | Optimal experimental designs for ordinal models with mixed factors for industrial and healthcare applications. <i>Journal of Quality Technology</i> , 2022, 54, 184-196. | 2.5 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | EzGP: Easy-to-Interpret Gaussian Process Models for Computer Experiments with Both Quantitative and Qualitative Factors. SIAM-ASA Journal on Uncertainty Quantification, 2021, 9, 333-353. | 2.0 | 5 |
| 20 | A history matching approach for calibrating hydrological models. Environmental and Ecological Statistics, 2019, 26, 87-105. | 3.5 | 4 |
| 21 | Approximations of the information matrix for a panel mixed logit model. Journal of Statistical Theory and Practice, 2017, 11, 269-295. | 0.5 | 3 |
| 22 | D-optimal Designs with Ordered Categorical Data. Statistica Sinica, 2018, , . | 0.3 | 3 |
| 23 | A New Analysis Strategy for Designs With Complex Aliasing. American Statistician, 2020, 74, 274-281. | 1.6 | 2 |
| 24 | A Hierarchical Bayes Unit-Level Small Area Estimation Model for Normal Mixture Populations. Sankhya B, 2021, 83, 215-241. | 0.9 | 2 |
| 25 | Statistical Analysis of Complex Computer Models in Astronomy. European Physical Journal: Special Topics, 2021, 230, 2253-2263. | 2.6 | 2 |
| 26 | An approach for studying aliasing relations of mixed fractional factorials based on product arrays. Statistics and Probability Letters, 2005, 75, 203-210. | 0.7 | 1 |
| 27 | Antibacterial and Drug Elution Performance of Thermoplastic Blends. Journal of Polymers and the Environment, 2018, 26, 132-144. | 5.0 | 1 |
| 28 | A-ComVar: A Flexible Extension of Common Variance Designs. Journal of Statistical Theory and Practice, 2020, 14, 1. | 0.5 | 0 |