

Kaye E Basford

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

2,035
citations

236925

25
h-index

289244

40
g-index

106
all docs

106
docs citations

106
times ranked

1901
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Deterministic and stochastic modelling of impacts from genomic selection and phenomics on genetic gain for perennial ryegrass dry matter yield. <i>Scientific Reports</i> , 2021, 11, 13265. | 3.3 | 4 |
| 2 | Smoking during Pregnancy and Adverse Birth and Maternal Outcomes in California, 2007 to 2016. <i>American Journal of Perinatology</i> , 2020, 37, 1364-1376. | 1.4 | 22 |
| 3 | Maternal and infant predictors of infant mortality in California, 2007–2015. <i>PLoS ONE</i> , 2020, 15, e0236877. | 2.5 | 19 |
| 4 | Trends in maternal prepregnancy body mass index (BMI) and its association with birth and maternal outcomes in California, 2007–2016: A retrospective cohort study. <i>PLoS ONE</i> , 2019, 14, e0222458. | 2.5 | 49 |
| 5 | Utilization of Multiyear Plant Breeding Data to Better Predict Genotype Performance. <i>Crop Science</i> , 2019, 59, 480-490. | 1.8 | 10 |
| 6 | Pedigree Data Analysis of a Wheat Population. <i>Proceedings (mdpi)</i> , 2019, 36, 148. | 0.2 | 0 |
| 7 | QuLinePlus: extending plant breeding strategy and genetic model simulation to cross-pollinated populations—case studies in forage breeding. <i>Heredity</i> , 2019, 122, 684-695. | 2.6 | 16 |
| 8 | Temporal trends, patterns, and predictors of preterm birth in California from 2007 to 2016, based on the obstetric estimate of gestational age. <i>Maternal Health, Neonatology and Perinatology</i> , 2018, 4, 25. | 2.2 | 25 |
| 9 | Recent trends, risk factors, and disparities in low birth weight in California, 2005–2014: a retrospective study. <i>Maternal Health, Neonatology and Perinatology</i> , 2018, 4, 15. | 2.2 | 49 |
| 10 | Application of a dendrogram seriation algorithm to extract pattern from plant breeding data. <i>Euphytica</i> , 2017, 213, 1. | 1.2 | 6 |
| 11 | Delivering food safety. <i>Frontiers of Agricultural Science and Engineering</i> , 2017, 4, 1. | 1.4 | 0 |
| 12 | Comparing classical criteria for selecting intra-class correlated features in Multimix. <i>Computational Statistics and Data Analysis</i> , 2016, 103, 350-366. | 1.2 | 0 |
| 13 | Evaluating Testing Strategies for Plant Breeding Field Trials: Redesigning a CIMMYT International Wheat Nursery. <i>Crop Science</i> , 2015, 55, 164-177. | 1.8 | 23 |
| 14 | A Genomic Selection Index Applied to Simulated and Real Data. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 2155-2164. | 1.8 | 42 |
| 15 | Application of Multiple Imputation for Missing Values in Three-Way Three-Mode Multi-Environment Trial Data. <i>PLoS ONE</i> , 2015, 10, e0144370. | 2.5 | 3 |
| 16 | Beyond the Statistical Fringe. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014, , 59-70. | 0.2 | 0 |
| 17 | On the classification of microarray gene-expression data. <i>Briefings in Bioinformatics</i> , 2013, 14, 402-410. | 6.5 | 16 |
| 18 | IBS: Transformation of Our Governance. <i>Biometrics</i> , 2013, 69, 300-300. | 1.4 | 0 |

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|----|---|-----|-----------|
| 19 | Adaptation analysis of diversity in adzuki germplasm introduced into Australia. <i>Crop and Pasture Science</i> , 2012, 63, 142. | 1.5 | 6 |
| 20 | Identifying deployment zones for <i>Eucalyptus camaldulensis</i> x <i>E. globulus</i> and x <i>E. grandis</i> hybrids using factor analytic modelling of genotype by environment interaction. <i>Australian Forestry</i> , 2011, 74, 30-35. | 0.9 | 12 |
| 21 | IBS: Transforming our Governance. <i>Biometrics</i> , 2011, 67, 1185-1188. | 1.4 | 1 |
| 22 | ImmunoGrid: towards agent-based simulations of the human immune system at a natural scale <sup />. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 2799-2815. | 3.4 | 39 |
| 23 | Patterns of genotype-by-environment interaction in diameter at breast height at age 3 for eucalypt hybrid clones grown for reforestation of lands affected by salinity. <i>Tree Genetics and Genomes</i> , 2010, 6, 833-851. | 1.6 | 28 |
| 24 | Future tools for association mapping in crop plants This article is one of a selection of papers from the conference "Exploiting Genome-wide Association in Oilseed Brassicas: a model for genetic improvement of major OECD crops for sustainable farming". <i>Genome</i> , 2010, 53, 1017-1023. | 2.0 | 46 |
| 25 | Variation in Adzuki Bean (<i>Vigna angularis</i>) Germplasm Grown in China. <i>Crop Science</i> , 2009, 49, 771-782. | 1.8 | 10 |
| 26 | ImmunoGrid, an integrative environment for large-scale simulation of the immune system for vaccine discovery, design and optimization. <i>Briefings in Bioinformatics</i> , 2008, 10, 330-340. | 6.5 | 36 |
| 27 | Computational Simulations of the Immune System for Personalized Medicine: State of the Art and Challenges. <i>Current Pharmacogenomics and Personalized Medicine</i> , 2008, 6, 260-271. | 0.2 | 14 |
| 28 | The availability of nitrogen from sugarcane trash on contrasting soils in the wet tropics of North Queensland. <i>Nutrient Cycling in Agroecosystems</i> , 2006, 75, 101-114. | 2.2 | 69 |
| 29 | Non-linear principal components analysis: an alternative method for finding patterns in environmental data. <i>Environmetrics</i> , 2006, 17, 1-11. | 1.4 | 24 |
| 30 | Issues of robustness and high dimensionality in cluster analysis. , 2006, , 3-15. | | 0 |
| 31 | Mixed Model Formulations for Multi-Environment Trials. <i>Agronomy Journal</i> , 2004, 96, 143. | 1.8 | 12 |
| 32 | Using molecular markers to assess the effect of introgression on quantitative attributes of common bean in the Andean gene pool. <i>Theoretical and Applied Genetics</i> , 2004, 108, 243-252. | 3.6 | 54 |
| 33 | Advantage of single-trial models for response to selection in wheat breeding multi-environment trials. <i>Theoretical and Applied Genetics</i> , 2004, 108, 1256-1264. | 3.6 | 14 |
| 34 | Grouping three-mode data with mixture methods: the case of the diseased blue crabs. <i>Journal of Chemometrics</i> , 2004, 18, 508-518. | 1.3 | 5 |
| 35 | A methodology for analysis of sugarcane productivity trends. 2. Comparing variety trials with commercial productivity. <i>Australian Journal of Agricultural Research</i> , 2004, 55, 109. | 1.5 | 7 |
| 36 | The evaluation of the spatial and temporal stability of sugarcane farm performance based on yield and commercial cane sugar. <i>Australian Journal of Agricultural Research</i> , 2004, 55, 335. | 1.5 | 13 |

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|----|--|-----|-----------|
| 37 | Title is missing!. <i>Agroforestry Systems</i> , 2003, 58, 77-92. | 2.0 | 7 |
| 38 | Association Between Seed Coat Polyphenolics (Tannins) and Disease Resistance in Common Bean. <i>Plant Foods for Human Nutrition</i> , 2003, 58, 285-297. | 3.2 | 32 |
| 39 | Utility of cotyledon and detached leaf assays for assessing root reactions of lucerne to <i>Phytophthora</i> root rot caused by <i>Phytophthora medicaginis</i> . <i>Australasian Plant Pathology</i> , 2003, 32, 263. | 1.0 | 11 |
| 40 | Patterns of resistance to angular leaf spot, anthracnose and common bacterial blight in common bean germplasm. <i>Australian Journal of Experimental Agriculture</i> , 2002, 42, 481. | 1.0 | 4 |
| 41 | Analysis of genetic diversity within Australian lucerne cultivars and implications for future genetic improvement. <i>Australian Journal of Agricultural Research</i> , 2002, 53, 629. | 1.5 | 23 |
| 42 | A Comparison of Kodak Ultraspeed and Ektaspeed Plus Dental X-ray Films for the Detection of Dental Caries. <i>Australian Dental Journal</i> , 2002, 47, 27-29. | 1.5 | 7 |
| 43 | Factors affecting cane yield and commercial cane sugar in the Tully district. <i>Australian Journal of Experimental Agriculture</i> , 2002, 42, 473. | 1.0 | 14 |
| 44 | Seed compositional and disease resistance differences among gene pools in cultivated common bean. <i>Genetic Resources and Crop Evolution</i> , 2002, 49, 285-293. | 1.6 | 86 |
| 45 | Genetic variability in cultivated common bean beyond the two major gene pools. <i>Genetic Resources and Crop Evolution</i> , 2002, 49, 271-283. | 1.6 | 42 |
| 46 | Genotype-by-management interactions for grain yield and grain protein concentration of wheat. <i>Field Crops Research</i> , 2001, 69, 47-67. | 5.1 | 71 |
| 47 | A comparison of Kodak Ultraspeed and Ektaspeed Plus dental X-ray films for use in endodontics. <i>Australian Dental Journal</i> , 2001, 46, 95-99. | 1.5 | 1 |
| 48 | A methodology for analysis of sugarcane productivity trends. I. Analysis across districts. <i>Australian Journal of Agricultural Research</i> , 2001, 52, 1001. | 1.5 | 13 |
| 49 | Fitting a Mixture Model to Three-mode Three-way Data with Missing Information. <i>Journal of Classification</i> , 2001, 18, 209-226. | 2.2 | 10 |
| 50 | Statistical Interaction with Quantitative Geneticists to Enhance Impact from Plant Breeding Programs. , 2001, , 1-15. | | 0 |
| 51 | Evaluation of experimental designs and spatial analyses in wheat breeding trials. <i>Theoretical and Applied Genetics</i> , 2000, 100, 9-16. | 3.6 | 67 |
| 52 | The effect of the accumulation of disease resistance genes on the long-term association of a global sample of environments for testing spring bread wheat. <i>Theoretical and Applied Genetics</i> , 2000, 101, 1164-1172. | 3.6 | 5 |
| 53 | Commercial cane sugar trends in the Tully sugar district. <i>Australian Journal of Experimental Agriculture</i> , 2000, 40, 969. | 1.0 | 9 |
| 54 | Computer simulation of a selection strategy to accommodate genotype environment interactions in a wheat recurrent selection programme. <i>Plant Breeding</i> , 1999, 118, 17-28. | 1.9 | 66 |

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|----|--|-----|-----------|
| 55 | Fitting a Mixture Model to Three-Mode Three-Way Data with Categorical and Continuous Variables. <i>Journal of Classification</i> , 1999, 16, 283-296. | 2.2 | 18 |
| 56 | Title is missing!. <i>Euphytica</i> , 1999, 105, 73-82. | 1.2 | 2 |
| 57 | Genotype×environment interactions and some considerations of their implications for wheat breeding in Australia This review is one of a series commissioned by the Advisory Committee of the Journal.. <i>Australian Journal of Agricultural Research</i> , 1998, 49, 153. | 1.5 | 164 |
| 58 | Combined Analysis of Categorical and Numerical Descriptors of Australian Groundnut Accessions Using Nonlinear Principal Component Analysis. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 1997, 2, 294. | 1.4 | 9 |
| 59 | Title is missing!. <i>Euphytica</i> , 1997, 95, 11-20. | 1.2 | 35 |
| 60 | Title is missing!. <i>Euphytica</i> , 1997, 95, 27-38. | 1.2 | 3 |
| 61 | Graphical profiles as an aid to understanding plant breeding experiments. <i>Journal of Statistical Planning and Inference</i> , 1997, 57, 93-107. | 0.6 | 12 |
| 62 | Genetic analysis of variation for grain yield and protein concentration in two wheat crosses. <i>Australian Journal of Agricultural Research</i> , 1997, 48, 605. | 1.5 | 10 |
| 63 | A laboratory study of dimensional changes for three elastomeric impression materials using custom and stock trays. <i>Australian Dental Journal</i> , 1996, 41, 398-404. | 1.5 | 42 |
| 64 | Mixed data types and the use of pattern analysis on the Australian groundnut germplasm data. <i>Genetic Resources and Crop Evolution</i> , 1996, 43, 363-376. | 1.6 | 8 |
| 65 | Intercomparing residuals to find outliers in randomized blocks. <i>Australian Journal of Agricultural Research</i> , 1995, 46, 451. | 1.5 | 3 |
| 66 | Patterns of diversity in fatty acid composition in the Australian groundnut germplasm collection. <i>Genetic Resources and Crop Evolution</i> , 1995, 42, 243-256. | 1.6 | 17 |
| 67 | Three-way cluster and component analysis of maize variety trials. <i>Euphytica</i> , 1995, 84, 31-42. | 1.2 | 13 |
| 68 | Three-Mode Analyses of Maize Using Morphological and Agronomic Attributes Measured in Multilocational Trials. <i>Crop Science</i> , 1995, 35, 1483-1491. | 1.8 | 21 |
| 69 | Classifying infants in the Strange Situation with three-way mixture method of clustering. <i>British Journal of Psychology</i> , 1995, 86, 397-418. | 2.3 | 3 |
| 70 | A procedure for investigating the number of genotypes required to provide a stable classification of environments. <i>Field Crops Research</i> , 1994, 38, 47-56. | 5.1 | 6 |
| 71 | Enhanced interpretation of pattern analyses of environments: the use of blocks. <i>Field Crops Research</i> , 1994, 37, 25-32. | 5.1 | 2 |
| 72 | NEIGHBOUR ANALYSIS WITH ADJUSTMENT FOR INTERPLOT COMPETITION. <i>The Australian Journal of Statistics</i> , 1993, 35, 263-270. | 0.2 | 2 |

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|----|---|-----|-----------|
| 73 | Determining appropriate group number and composition for data sets containing repeated check cultivars. <i>Field Crops Research</i> , 1993, 31, 369-383. | 5.1 | 7 |
| 74 | Automated microdensitometry of nucleolar organizer regions using microspectrophoto-microscopy. <i>Journal of Microscopy</i> , 1992, 167, 233-237. | 1.8 | 0 |
| 75 | Utility of repeated checks for hierarchical classification of data from plant breeding trials. <i>Field Crops Research</i> , 1992, 30, 79-95. | 5.1 | 22 |
| 76 | Impact of genotype multiply environment interaction on response to selection in sugarcane. <i>Australian Journal of Experimental Agriculture</i> , 1992, 32, 731. | 1.0 | 15 |
| 77 | Classifying genotypic data from plant breeding trials: a preliminary investigation using repeated checks. <i>Theoretical and Applied Genetics</i> , 1992, 85, 461-469. | 3.6 | 7 |
| 78 | Phenotypic and functional analysis of peripheral blood lymphocytes in oral lichen planus. <i>Journal of Oral Pathology and Medicine</i> , 1992, 21, 445-450. | 2.7 | 22 |
| 79 | NEAREST NEIGHBOUR ANALYSIS OF UNEQUALLY REPLICATED TRIALS. <i>The Australian Journal of Statistics</i> , 1992, 34, 1-9. | 0.2 | 0 |
| 80 | Analysis of the environmental component of genotype \tilde{A} - environment interaction in crop adaptation evaluation. <i>Field Crops Research</i> , 1991, 28, 71-84. | 5.1 | 21 |
| 81 | Three-way methods for multiattribute genotype \tilde{A} - environment data: an illustrated partial survey. <i>Field Crops Research</i> , 1991, 27, 131-157. | 5.1 | 24 |
| 82 | Occlusal contacts: Comparison of orthodontic patients, posttreatment patients, and untreated controls. <i>Journal of Prosthetic Dentistry</i> , 1991, 65, 232-237. | 2.8 | 13 |
| 83 | Competing Effects Designs and Models for Two-Dimensional Field Arrangements. <i>Biometrics</i> , 1991, 47, 1461. | 1.4 | 18 |
| 84 | Colonization of perspex strips by larvae of <i>Austrosimulium bancrofti</i> (Taylor) near Ipswich, Queensland. <i>Hydrobiologia</i> , 1991, 218, 255-263. | 2.0 | 2 |
| 85 | Dimensional change of impressions on sterilization. <i>Australian Dental Journal</i> , 1990, 35, 23-26. | 1.5 | 4 |
| 86 | Multiattribute evaluation of regional cotton variety trials. <i>Theoretical and Applied Genetics</i> , 1990, 79, 225-234. | 3.6 | 18 |
| 87 | Cement spacing for the one-step post-core and crown. A new laboratory technique. <i>Australian Dental Journal</i> , 1989, 34, 52-59. | 1.5 | 0 |
| 88 | An investigation of multi-attribute genotype response across environments using three-mode principal component analysis. <i>Euphytica</i> , 1989, 44, 109-123. | 1.2 | 26 |
| 89 | ATTITUDES AND KNOWLEDGE OF NURSING STAFF IN RELATION TO MANAGEMENT OF POSTOPERATIVE PAIN. <i>ANZ Journal of Surgery</i> , 1987, 57, 447-450. | 0.7 | 31 |
| 90 | The effects of surface roughness and surface area on the retention of crowns luted with zinc phosphate cement. <i>Australian Dental Journal</i> , 1987, 32, 446-457. | 1.5 | 15 |

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|-----|---|-----|-----------|
| 91 | The Effect of Temperature on Growth, Oil Yield and Oil Quality of Japanese Mint. <i>Annals of Botany</i> , 1986, 58, 729-736. | 2.9 | 43 |
| 92 | The mixture method of clustering applied to three-way data. <i>Journal of Classification</i> , 1985, 2, 109-125. | 2.2 | 71 |
| 93 | Cluster analysis in a randomized complete block design. <i>Communications in Statistics - Theory and Methods</i> , 1985, 14, 451-463. | 1.0 | 5 |
| 94 | Estimation of Allocation Rates in a Cluster Analysis Context. <i>Journal of the American Statistical Association</i> , 1985, 80, 286-293. | 3.1 | 25 |
| 95 | Genetic variation in sodium and potassium concentration in herbage of <i>Digitaria milanjiana</i> , and its relation to provenance. <i>Australian Journal of Agricultural Research</i> , 1985, 36, 201. | 1.5 | 3 |
| 96 | The use of multidimensional scaling in analysing multi-attribute genotype response across environments. <i>Australian Journal of Agricultural Research</i> , 1982, 33, 473. | 1.5 | 12 |
| 97 | Reliability and validity of lower third molar space-assessment techniques. <i>American Journal of Orthodontics</i> , 1981, 79, 45-53. | 0.4 | 37 |
| 98 | Dental students at the University of Queensland. Entrance and performance 1960 to 1979. <i>Australian Dental Journal</i> , 1981, 26, 146-152. | 1.5 | 0 |
| 99 | The use of matrix specifications in defining gene action in genotypic value models and generation mean analysis. <i>Theoretical and Applied Genetics</i> , 1979, 55, 225-229. | 3.6 | 8 |
| 100 | A comparison of the casting ability of precious and nonprecious alloys for porcelain veneering. <i>Journal of Prosthetic Dentistry</i> , 1977, 37, 527-536. | 2.8 | 32 |
| 101 | Multivariate analyses of the influence of mottling doses of fluoride on the amino acids of enamel matrix protein of rat incisors. <i>Archives of Oral Biology</i> , 1976, 21, 121-129. | 1.8 | 10 |
| 102 | The effect of fluoride on the immature enamel matrix protein of the rat. <i>Archives of Oral Biology</i> , 1976, 21, 131-132. | 1.8 | 29 |
| 103 | Visualising the pattern of long-term genotype performance by leveraging a genomic prediction model. <i>Australian and New Zealand Journal of Statistics</i> , 0, , . | 0.9 | 1 |