

# Kaye E Basford

## List of Publications by Year in descending order

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103  
papers

2,035  
citations

236612

25  
h-index

288905

40  
g-index

106  
all docs

106  
docs citations

106  
times ranked

1901  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.. Australian Journal of Agricultural Research, 1998, 49, 153.	1.5	164
2	Seed compositional and disease resistance differences among gene pools in cultivated common bean. Genetic Resources and Crop Evolution, 2002, 49, 285-293.	0.8	86
3	The mixture method of clustering applied to three-way data. Journal of Classification, 1985, 2, 109-125.	1.2	71
4	Genotype-by-management interactions for grain yield and grain protein concentration of wheat. Field Crops Research, 2001, 69, 47-67.	2.3	71
5	The availability of nitrogen from sugarcane trash on contrasting soils in the wet tropics of North Queensland. Nutrient Cycling in Agroecosystems, 2006, 75, 101-114.	1.1	69
6	Evaluation of experimental designs and spatial analyses in wheat breeding trials. Theoretical and Applied Genetics, 2000, 100, 9-16.	1.8	67
7	Computer simulation of a selection strategy to accommodate genotype environment interactions in a wheat recurrent selection programme. Plant Breeding, 1999, 118, 17-28.	1.0	66
8	Using molecular markers to assess the effect of introgression on quantitative attributes of common bean in the Andean gene pool. Theoretical and Applied Genetics, 2004, 108, 243-252.	1.8	54
9	Recent trends, risk factors, and disparities in low birth weight in California, 2005–2014: a retrospective study. Maternal Health, Neonatology and Perinatology, 2018, 4, 15.	1.0	49
10	Trends in maternal prepregnancy body mass index (BMI) and its association with birth and maternal outcomes in California, 2007–2016: A retrospective cohort study. PLoS ONE, 2019, 14, e0222458.	1.1	49
11	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’. Genome, 2010, 53, 1017-1023.	0.9	46
12	The Effect of Temperature on Growth, Oil Yield and Oil Quality of Japanese Mint. Annals of Botany, 1986, 58, 729-736.	1.4	43
13	A laboratory study of dimensional changes for three elastomeric impression materials using custom and stock trays. Australian Dental Journal, 1996, 41, 398-404.	0.6	42
14	Genetic variability in cultivated common bean beyond the two major gene pools. Genetic Resources and Crop Evolution, 2002, 49, 271-283.	0.8	42
15	A Genomic Selection Index Applied to Simulated and Real Data. G3: Genes, Genomes, Genetics, 2015, 5, 2155-2164.	0.8	42
16	ImmunoGrid: towards agent-based simulations of the human immune system at a natural scale <sup />. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2799-2815.	1.6	39
17	Reliability and validity of lower third molar space-assessment techniques. American Journal of Orthodontics, 1981, 79, 45-53.	0.4	37
18	ImmunoGrid, an integrative environment for large-scale simulation of the immune system for vaccine discovery, design and optimization. Briefings in Bioinformatics, 2008, 10, 330-340.	3.2	36

#	ARTICLE	IF	CITATIONS
19	Title is missing!. <i>Euphytica</i> , 1997, 95, 11-20.	0.6	35
20	A comparison of the casting ability of precious and nonprecious alloys for porcelain veneering. <i>Journal of Prosthetic Dentistry</i> , 1977, 37, 527-536.	1.1	32
21	Association Between Seed Coat Polyphenolics (Tannins) and Disease Resistance in Common Bean. <i>Plant Foods for Human Nutrition</i> , 2003, 58, 285-297.	1.4	32
22	ATTITUDES AND KNOWLEDGE OF NURSING STAFF IN RELATION TO MANAGEMENT OF POSTOPERATIVE PAIN. <i>ANZ Journal of Surgery</i> , 1987, 57, 447-450.	0.3	31
23	The effect of fluoride on the immature enamel matrix protein of the rat. <i>Archives of Oral Biology</i> , 1976, 21, 131-132.	0.8	29
24	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.	0.6	28
25	An investigation of multi-attribute genotype response across environments using three-mode principal component analysis. <i>Euphytica</i> , 1989, 44, 109-123.	0.6	26
26	Estimation of Allocation Rates in a Cluster Analysis Context. <i>Journal of the American Statistical Association</i> , 1985, 80, 286-293.	1.8	25
27	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.	1.0	25
28	Three-way methods for multiattribute genotype $\times$ environment data: an illustrated partial survey. <i>Field Crops Research</i> , 1991, 27, 131-157.	2.3	24
29	Non-linear principal components analysis: an alternative method for finding patterns in environmental data. <i>Environmetrics</i> , 2006, 17, 1-11.	0.6	24
30	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
31	Evaluating Testing Strategies for Plant Breeding Field Trials: Redesigning a CIMMYT International Wheat Nursery. <i>Crop Science</i> , 2015, 55, 164-177.	0.8	23
32	Utility of repeated checks for hierarchical classification of data from plant breeding trials. <i>Field Crops Research</i> , 1992, 30, 79-95.	2.3	22
33	Phenotypic and functional analysis of peripheral blood lymphocytes in oral lichen planus. <i>Journal of Oral Pathology and Medicine</i> , 1992, 21, 445-450.	1.4	22
34	Smoking during Pregnancy and Adverse Birth and Maternal Outcomes in California, 2007 to 2016. <i>American Journal of Perinatology</i> , 2020, 37, 1364-1376.	0.6	22
35	Analysis of the environmental component of genotype $\times$ environment interaction in crop adaptation evaluation. <i>Field Crops Research</i> , 1991, 28, 71-84.	2.3	21
36	Three-Mode Analyses of Maize Using Morphological and Agronomic Attributes Measured in Multilocational Trials. <i>Crop Science</i> , 1995, 35, 1483-1491.	0.8	21

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37	Maternal and infant predictors of infant mortality in California, 2007–2015. PLoS ONE, 2020, 15, e0236877.	1.1	19
38	Multiattribute evaluation of regional cotton variety trials. Theoretical and Applied Genetics, 1990, 79, 225-234.	1.8	18
39	Competing Effects Designs and Models for Two-Dimensional Field Arrangements. Biometrics, 1991, 47, 1461.	0.8	18
40	Fitting a Mixture Model to Three-Mode Three-Way Data with Categorical and Continuous Variables. Journal of Classification, 1999, 16, 283-296.	1.2	18
41	Patterns of diversity in fatty acid composition in the Australian groundnut germplasm collection. Genetic Resources and Crop Evolution, 1995, 42, 243-256.	0.8	17
42	On the classification of microarray gene-expression data. Briefings in Bioinformatics, 2013, 14, 402-410.	3.2	16
43	QuLinePlus: extending plant breeding strategy and genetic model simulation to cross-pollinated populations—case studies in forage breeding. Heredity, 2019, 122, 684-695.	1.2	16
44	The effects of surface roughness and surface area on the retention of crowns luted with zinc phosphate cement. Australian Dental Journal, 1987, 32, 446-457.	0.6	15
45	Impact of genotype multiply environment interaction on response to selection in sugarcane. Australian Journal of Experimental Agriculture, 1992, 32, 731.	1.0	15
46	Factors affecting cane yield and commercial cane sugar in the Tully district. Australian Journal of Experimental Agriculture, 2002, 42, 473.	1.0	14
47	Advantage of single-trial models for response to selection in wheat breeding multi-environment trials. Theoretical and Applied Genetics, 2004, 108, 1256-1264.	1.8	14
48	Computational Simulations of the Immune System for Personalized Medicine: State of the Art and Challenges. Current Pharmacogenomics and Personalized Medicine, 2008, 6, 260-271.	0.2	14
49	Occlusal contacts: Comparison of orthodontic patients, posttreatment patients, and untreated controls. Journal of Prosthetic Dentistry, 1991, 65, 232-237.	1.1	13
50	Three-way cluster and component analysis of maize variety trials. Euphytica, 1995, 84, 31-42.	0.6	13
51	A methodology for analysis of sugarcane productivity trends. I. Analysis across districts. Australian Journal of Agricultural Research, 2001, 52, 1001.	1.5	13
52	The evaluation of the spatial and temporal stability of sugarcane farm performance based on yield and commercial cane sugar. Australian Journal of Agricultural Research, 2004, 55, 335.	1.5	13
53	The use of multidimensional scaling in analysing multi-attribute genotype response across environments. Australian Journal of Agricultural Research, 1982, 33, 473.	1.5	12
54	Graphical profiles as an aid to understanding plant breeding experiments. Journal of Statistical Planning and Inference, 1997, 57, 93-107.	0.4	12

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55	Mixed Model Formulations for Multi-Environment Trials. <i>Agronomy Journal</i> , 2004, 96, 143.	0.9	12
56	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.	0.3	12
57	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.	0.5	11
58	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.	0.8	10
59	Fitting a Mixture Model to Three-mode Three-way Data with Missing Information. <i>Journal of Classification</i> , 2001, 18, 209-226.	1.2	10
60	Variation in Adzuki Bean ( <i>Vigna angularis</i> ) Germplasm Grown in China. <i>Crop Science</i> , 2009, 49, 771-782.	0.8	10
61	Utilization of Multiyear Plant Breeding Data to Better Predict Genotype Performance. <i>Crop Science</i> , 2019, 59, 480-490.	0.8	10
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	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.	0.7	9
64	Commercial cane sugar trends in the Tully sugar district. <i>Australian Journal of Experimental Agriculture</i> , 2000, 40, 969.	1.0	9
65	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.	1.8	8
66	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.	0.8	8
67	Classifying genotypic data from plant breeding trials: a preliminary investigation using repeated checks. <i>Theoretical and Applied Genetics</i> , 1992, 85, 461-469.	1.8	7
68	Determining appropriate group number and composition for data sets containing repeated check cultivars. <i>Field Crops Research</i> , 1993, 31, 369-383.	2.3	7
69	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.	0.6	7
70	Title is missing!. <i>Agroforestry Systems</i> , 2003, 58, 77-92.	0.9	7
71	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
72	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.	2.3	6

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73	Adaptation analysis of diversity in adzuki germplasm introduced into Australia. <i>Crop and Pasture Science</i> , 2012, 63, 142.	0.7	6
74	Application of a dendrogram seriation algorithm to extract pattern from plant breeding data. <i>Euphytica</i> , 2017, 213, 1.	0.6	6
75	Cluster analysis in a randomized complete block design. <i>Communications in Statistics - Theory and Methods</i> , 1985, 14, 451-463.	0.6	5
76	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.	1.8	5
77	Grouping three-mode data with mixture methods: the case of the diseased blue crabs. <i>Journal of Chemometrics</i> , 2004, 18, 508-518.	0.7	5
78	Dimensional change of impressions on sterilization. <i>Australian Dental Journal</i> , 1990, 35, 23-26.	0.6	4
79	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
80	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.	1.6	4
81	Intercomparing residuals to find outliers in randomized blocks. <i>Australian Journal of Agricultural Research</i> , 1995, 46, 451.	1.5	3
82	Classifying infants in the Strange Situation with three-way mixture method of clustering. <i>British Journal of Psychology</i> , 1995, 86, 397-418.	1.2	3
83	Title is missing!. <i>Euphytica</i> , 1997, 95, 27-38.	0.6	3
84	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
85	Application of Multiple Imputation for Missing Values in Three-Way Three-Mode Multi-Environment Trial Data. <i>PLoS ONE</i> , 2015, 10, e0144370.	1.1	3
86	Colonization of perspex strips by larvae of <i>Austrosimulium bancrofti</i> (Taylor) near Ipswich, Queensland. <i>Hydrobiologia</i> , 1991, 218, 255-263.	1.0	2
87	NEIGHBOUR ANALYSIS WITH ADJUSTMENT FOR INTERPLOT COMPETITION. <i>The Australian Journal of Statistics</i> , 1993, 35, 263-270.	0.2	2
88	Enhanced interpretation of pattern analyses of environments: the use of blocks. <i>Field Crops Research</i> , 1994, 37, 25-32.	2.3	2
89	Title is missing!. <i>Euphytica</i> , 1999, 105, 73-82.	0.6	2
90	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.	0.6	1

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91	IBS: Transforming our Governance. Biometrics, 2011, 67, 1185-1188.	0.8	1
92	Visualising the pattern of long-term genotype performance by leveraging a genomic prediction model. Australian and New Zealand Journal of Statistics, 0, , .	0.4	1
93	Dental students at the University of Queensland. Entrance and performance 1960 to 1979. Australian Dental Journal, 1981, 26, 146-152.	0.6	0
94	Cement spacing for the one-step post-core and crown. A new laboratory technique. Australian Dental Journal, 1989, 34, 52-59.	0.6	0
95	Automated microdensitometry of nucleolar organizer regions using microspectrophoto-microscopy. Journal of Microscopy, 1992, 167, 233-237.	0.8	0
96	NEAREST NEIGHBOUR ANALYSIS OF UNEQUALLY REPLICATED TRIALS. The Australian Journal of Statistics, 1992, 34, 1-9.	0.2	0
97	Statistical Interaction with Quantitative Geneticists to Enhance Impact from Plant Breeding Programs. , 2001, , 1-15.		0
98	IBS: Transformation of Our Governance. Biometrics, 2013, 69, 300-300.	0.8	0
99	Comparing classical criteria for selecting intra-class correlated features in Multimix. Computational Statistics and Data Analysis, 2016, 103, 350-366.	0.7	0
100	Pedigree Data Analysis of a Wheat Population. Proceedings (mdpi), 2019, 36, 148.	0.2	0
101	Beyond the Statistical Fringe. Springer Proceedings in Mathematics and Statistics, 2014, , 59-70.	0.1	0
102	Delivering food safety. Frontiers of Agricultural Science and Engineering, 2017, 4, 1.	0.9	0
103	Issues of robustness and high dimensionality in cluster analysis. , 2006, , 3-15.		0