William J Browne

List of Publications by Year
in descending order

121 papers	24,562 citations	57631 44 h-index	19136 118 g-index
131 all docs	131 docs citations	131 times ranked	33319 citing authors

#	Article	IF	Citations
1	Improving Bioscience Research Reporting: The ARRIVE Guidelines for Reporting Animal Research. PLoS Biology, 2010, 8, e1000412.	2.6	5,621
2	Animal research: Reporting in vivo experiments: The ARRIVE guidelines. British Journal of Pharmacology, 2010, 160, 1577-1579.	2.7	3,150
3	Improving bioscience research reporting: The ARRIVE guidelines for reporting animal research. Journal of Pharmacology and Pharmacotherapeutics, 2010, 1, 94-99.	0.2	2,743
4	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. PLoS Biology, 2020, 18, e3000410.	2.6	2,209
5	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. Experimental Physiology, 2020, 105, 1459-1466.	0.9	1,300
6	Reporting animal research: Explanation and elaboration for the ARRIVE guidelines 2.0. PLoS Biology, 2020, 18, e3000411.	2.6	1,069
7	Partitioning Variation in Multilevel Models. Understanding Statistics, 2002, 1, 223-231.	1.2	633
8	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research*. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1769-1777.	2.4	546
9	Improving bioscience research reporting: the ARRIVE guidelines for reporting animal research. Osteoarthritis and Cartilage, 2012, 20, 256-260.	0.6	520
10	A comparison of Bayesian and likelihood-based methods for fitting multilevel models. Bayesian Analysis, 2006, 1, 473.	1.6	447
11	Animal Research: Reporting in vivo Experimentsâ€"The ARRIVE Guidelines. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 991-993.	2.4	407
12	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. British Journal of Pharmacology, 2020, 177, 3617-3624.	2.7	326
13	Variance partitioning in multilevel logistic models that exhibit overdispersion. Journal of the Royal Statistical Society Series A: Statistics in Society, 2005, 168, 599-613.	0.6	324
14	Multilevel modelling of medical data. Statistics in Medicine, 2002, 21, 3291-3315.	0.8	315
15	Animal Research: Reporting In Vivo Experiments: The ARRIVE Guidelines. Journal of Gene Medicine, 2010, 12, 561-563.	1.4	230
16	Multiple membership multiple classification (MMMC) models. Statistical Modelling, 2001, 1, 103-124.	0.5	216
17	Number and ownership profiles of cats and dogs in the UK. Veterinary Record, 2010, 166, 163-168.	0.2	198
18	Improving Bioscience Research Reporting: The <scp>ARRIVE</scp> Guidelines for Reporting Animal Research. Veterinary Clinical Pathology, 2012, 41, 27-31.	0.3	186

#	Article	IF	Citations
19	Multiple membership multiple classification (MMMC) models. Statistical Modelling, 2001, 1, 103-124.	0.5	180
20	The ARRIVE guidelines 2.0: updated guidelines for reporting animal research. Journal of Physiology, 2020, 598, 3793-3801.	1.3	177
21	Bones' adaptive response to mechanical loading is essentially linear between the low strains associated with disuse and the high strains associated with the lamellar/woven bone transition. Journal of Bone and Mineral Research, 2012, 27, 1784-1793.	3.1	174
22	Implementation and performance issues in the Bayesian and likelihood fitting of multilevel models. Computational Statistics, 2000, 15, 391-420.	0.8	160
23	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. BMC Veterinary Research, 2020, 16, 242.	0.7	136
24	Cow, Farm, and Management Factors During the Dry Period that Determine the Rate of Clinical Mastitis After Calving. Journal of Dairy Science, 2007, 90, 3764-3776.	1.4	134
25	Associations between welfare indicators and environmental choice in laying hens. Animal Behaviour, 2009, 78, 413-424.	0.8	133
26	Improving Bioscience Research Reporting: The ARRIVE Guidelines for Reporting Animal Research. Animals, 2014, 4, 35-44.	1.0	120
27	The ARRIVE guidelines 2.0: updated guidelines for reporting animal researchThe ARRIVE guidelines 2.0: updated guidelines for reporting animal research. BMJ Open Science, 2020, 44, e100115.	0.8	114
28	Feline extranodal lymphoma: response to chemotherapy and survival in 110 cats. Journal of Small Animal Practice, 2009, 50, 584-592.	0.5	110
29	A general multilevel multistate competing risks model for event history data, with an application to a study of contraceptive use dynamics. Statistical Modelling, 2004, 4, 145-159.	0.5	99
30	Multiple-Membership Multiple-Classification Models for Social Network and Group Dependences. Journal of the Royal Statistical Society Series A: Statistics in Society, 2014, 177, 439-455.	0.6	98
31	Fitting Multilevel Multivariate Models with Missing Data in Responses and Covariates that May Include Interactions and Non-Linear Terms. Journal of the Royal Statistical Society Series A: Statistics in Society, 2014, 177, 553-564.	0.6	76
32	Animal Research: Reporting In Vivo Experiments: The ARRIVE guidelines. Journal of Physiology, 2010, 588, 2519-2521.	1.3	75
33	Assessing changes in the UK pet cat and dog populations: numbers and household ownership. Veterinary Record, 2015, 177, 259-259.	0.2	71
34	Risk factors identified for owner-reported feline obesity at around one year of age: Dry diet and indoor lifestyle. Preventive Veterinary Medicine, 2015, 121, 273-281.	0.7	67
35	Male mice housed in groups engage in frequent fighting and show a lower response to additional bone loading than females or individually housed males that do not fight. Bone, 2013, 54, 113-117.	1.4	61
36	A Study of Class Size Effects in English School Reception Year Classes. British Educational Research Journal, 2002, 28, 169-185.	1.4	60

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37	Cow, Farm, and Herd Management Factors in the Dry Period Associated with Raised Somatic Cell Counts in Early Lactation. Journal of Dairy Science, 2008, 91, 1403-1415.	1.4	60
38	Cage aggression in group-housed laboratory male mice: an international data crowdsourcing project. Scientific Reports, 2019, 9, 15211.	1.6	60
39	R2MLwiN: A Package to RunMLwiNfrom withinR. Journal of Statistical Software, 2016, 72, .	1.8	59
40	Modeling Heterogeneous Varianceâ€“Covariance Components in Two-Level Models. Journal of Educational and Behavioral Statistics, 2014, 39, 307-332.	1.0	56
41	Seasonal variation of bulk milk somatic cell counts in UK dairy herds: Investigations of the summer rise. Preventive Veterinary Medicine, 2006, 74, 293-308.	0.7	50
42	Clustering and synchrony in laying hens: The effect of environmental resources on social dynamics. Applied Animal Behaviour Science, 2011, 129, 43-53.	0.8	50
43	Sampling strategies for monitoring lameness in dairy cattle. Journal of Dairy Science, 2010, 93, 1970-1978.	1.4	49
44	Positive affective state induced by opioid analgesia in laying hens with bone fractures. Applied Animal Behaviour Science, 2013, 147, 127-131.	0.8	48
45	Navigating the iceberg: reducing the number of parameters within the Welfare QualityÂ® assessment protocol for dairy cows. Animal, 2014, 8, 1978-1986.	1.3	48
46	Multivariate multilevel analyses of examination results. Journal of the Royal Statistical Society Series A: Statistics in Society, 2002, 165, 137-153.	0.6	47
47	Non-Hierarchical Multilevel Models. , 2008, , 301-334.		46
48	Bayesian and likelihood methods for fitting multilevel models with complex level-1 variation. Computational Statistics and Data Analysis, 2002, 39, 203-225.	0.7	45
49	The Use of Simple Reparameterizations to Improve the Efficiency of Markov Chain Monte Carlo Estimation for Multilevel Models with Applications to Discrete Time Survival Models. Journal of the Royal Statistical Society Series A: Statistics in Society, 2009, 172, 579-598.	0.6	45
50	Using cross-classified multivariate mixed response models with application to life history traits in great tits (Parus major). Statistical Modelling, 2007, 7, 217-238.	0.5	43
51	ELASTOGRAPHY OF THE NORMAL CANINE LIVER, SPLEEN AND KIDNEYS. Veterinary Radiology and Ultrasound, 2014, 55, 620-627.	0.4	39
52	Somatic cell count dynamics in a large sample of dairy herds in England and Wales. Preventive Veterinary Medicine, 2010, 96, 56-64.	0.7	37
53	Early-life risk factors identified for owner-reported feline overweight and obesity at around two years of age. Preventive Veterinary Medicine, 2017, 143, 39-48.	0.7	37
54	Experimentally manipulating light spectra reveals the importance of dark corridors for commuting bats. Global Change Biology, 2018, 24, 5909-5918.	4.2	37

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55	The effect of sampling strategy on the estimated prevalence of welfare outcome measures on finishing pig farms. Applied Animal Behaviour Science, 2009, 119, 39-48.	0.8	36
56	Revision of the ARRIVE guidelines: rationale and scope. BMJ Open Science, 2018, 2, e000002.	0.8	36
57	Use of individual cow milk recording data at the start of lactation to predict the calving to conception interval. Journal of Dairy Science, 2010, 93, 4677-4690.	1.4	35
58	The Place of Experimental Design and Statistics in the 3Rs. ILAR Journal, 2014, 55, 477-485.	1.8	35
59	Multilevel Models in the Study of Dynamic Household Structures. European Journal of Population, 2000, 16, 373-387.	1.1	34
60	Scientific rigor and the art of motorcycle maintenance. Nature Biotechnology, 2014, 32, 871-873.	9.4	34
61	Housing conditions affect rat responses to two types of ambiguity in a rewardâ€“reward discrimination cognitive bias task. Behavioural Brain Research, 2014, 274, 73-83.	1.2	34
62	MCMC algorithms for constrained variance matrices. Computational Statistics and Data Analysis, 2006, 50, 1655-1677.	0.7	32
63	Implementing Welfare QualityÂ® in UK assurance schemes: evaluating the challenges. Animal Welfare, 2014, 23, 95-107.	0.3	32
64	Partitioning variation in multilevel models for count data.. Psychological Methods, 2020, 25, 787-801.	2.7	32
65	Animal Research: Reporting In Vivo Experiments: The ARRIVE guidelines. Experimental Physiology, 2010, 95, 842-844.	0.9	30
66	Welfare outcomes assessment in laying hen farm assurance schemes. Animal Welfare, 2012, 21, 389-396.	0.3	29
67	Outcomes and Complications Associated With Epicardial Pacemakers in 28 Dogs and 5 Cats. Veterinary Surgery, 2013, 42, 544-550.	0.5	29
68	A Screen-Peck Task for Investigating Cognitive Bias in Laying Hens. PLoS ONE, 2016, 11, e0158222.	1.1	29
69	Comparing aerosol number and mass exhalation rates from children and adults during breathing, speaking and singing. Interface Focus, 2022, 12, 20210078.	1.5	29
70	Decisions about foraging and risk trade-offs in chickens are associated with individual somatic response profiles. Animal Behaviour, 2011, 82, 255-262.	0.8	27
71	Towards humane end points: behavioural changes precede clinical signs of disease in a Huntington's disease model. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 1865-1874.	1.2	24
72	MCMC Sampling for a Multilevel Model With Nonindependent Residuals Within and Between Cluster Units. Journal of Educational and Behavioral Statistics, 2010, 35, 453-473.	1.0	24

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73	A Large-Scale Replication of the Effectiveness of the KiVa Antibullying Program: a Randomized Controlled Trial in the Netherlands. Prevention Science, 2020, 21, 627-638.	1.5	24
74	Use of posterior predictive assessments to evaluate model fit in multilevel logistic regression. Veterinary Research, 2009, 40, 30.	1.1	22
75	Multilevel growth curve models that incorporate a random coefficient model for the level 1 variance function. Statistical Methods in Medical Research, 2018, 27, 3478-3491.	0.7	21
76	Consistency, transitivity and inter-relationships between measures of choice in environmental preference tests with chickens. Behavioural Processes, 2010, 83, 72-78.	0.5	20
77	Temperament, age and weather predict social interaction in the sheep flock. Behavioural Processes, 2016, 131, 53-58.	0.5	19
78	Aerosol and droplet generation from performing with woodwind and brass instruments. Aerosol Science and Technology, 2021, 55, 1277-1287.	1.5	19
79	Prospective Study of the Effect of Exposure to Other Smokers in High School Tutor Groups on the Risk of Incident Smoking in Adolescence. American Journal of Epidemiology, 2004, 159, 127-132.	1.6	18
80	A comparison of respiratory particle emission rates at rest and while speaking or exercising. Communications Medicine, 2022, 2, .	1.9	16
81	Mitigating the Impact of Bats in Historic Churches: The Response of Natterer‚Äô‚Äôs Bats Myotis nattereri to Artificial Roosts and Deterrence. PLoS ONE, 2016, 11, e0146782.	1.1	15
82	Mechanical comparison of median sternotomy closure in dogs using polydioxanone and wire sutures. Journal of Small Animal Practice, 2011, 52, 582-586.	0.5	14
83	M-mode, two-dimensional and Doppler echocardiographic findings in 40 healthy domestic pet rabbits. Journal of Veterinary Cardiology, 2014, 16, 101-108.	0.3	14
84	Risk factors for a high somatic cell count at the first milk recording in a large sample of UK dairy herds. Journal of Dairy Science, 2012, 95, 1873-1884.	1.4	13
85	State-dependent judgement bias in Drosophila : evidence for evolutionarily primitive affective processes. Biology Letters, 2018, 14, .	1.0	12
86	Managing Conflict between Bats and Humans: The Response of Soprano Pipistrelles (Pipistrellus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	1.1	12
87	A comparison of the hierarchical likelihood and Bayesian approaches to spatial epidemiological modelling. Environmetrics, 2007, 18, 809-821.	0.6	11
88	Surface shape analysis with an application to brain surface asymmetry in schizophrenia. Biostatistics, 2010, 11, 609-630.	0.9	11
89	Mild environmental aversion is detected by a discrete-choice preference testing method but not by a free-access method. Applied Animal Behaviour Science, 2011, 134, 152-163.	0.8	10
90	Bayesian mixture models for partially verified data: Age- and stage-specific discriminatory power of an antibody ELISA for paratuberculosis. Preventive Veterinary Medicine, 2013, 111, 200-205.	0.7	10

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91	Sequential sampling: a novel method in farm animal welfare assessment. Animal, 2016, 10, 349-356.	1.3	10
92	A Bayesian micro-simulation to evaluate the cost-effectiveness of interventions for mastitis control during the dry period in UK dairy herds. Preventive Veterinary Medicine, 2016, 133, 64-72.	0.7	10
93	A Bayesian model for measurement and misclassification errors alongside missing data, with an application to higher education participation in Australia. Journal of Applied Statistics, 2018, 45, 918-931.	0.6	10
94	Estimation of a large cross-classified multilevel model to study academic achievement in a modular degree course. Journal of the Royal Statistical Society Series A: Statistics in Society, 2003, 166, 119-133.	0.6	9
95	Mixed Effect Modelling of Proteomic Mass Spectrometry Data by Using Gaussian Mixtures. Journal of the Royal Statistical Society Series C: Applied Statistics, 2010, 59, 617-633.	0.5	9
96	Assessing animal welfare: a triangulation of preference, judgement bias and other candidate welfare indicators. Animal Behaviour, 2022, 186, 151-177.	0.8	9
97	Quantifying defence cascade responses as indicators of pig affect and welfare using computer vision methods. Scientific Reports, 2020, 10, 8933.	1.6	8
98	The anterior tooth development of cattle presented for slaughter: an analysis of age, sex and breed. Animal, 2013, 7, 1323-1331.	1.3	7
99	A Bayesian Weibull survival model for time to infection data measured with delay. Preventive Veterinary Medicine, 2010, 94, 191-201.	0.7	6
100	Impact of Imperfect Test Sensitivity on Determining Risk Factors: The Case of Bovine Tuberculosis. PLoS ONE, 2012, 7, e43116.	1.1	5
101	A semi-parametric model for lactation curves: Development and application. Preventive Veterinary Medicine, 2012, 105, 38-48.	0.7	5
102	Do Formal Inspections Ensure that British Zoos Meet and Improve on Minimum Animal Welfare Standards?. Animals, 2013, 3, 1058-1072.	1.0	5
103	Left ventricular radial colour and longitudinal pulsed-wave tissue Doppler echocardiography in 39 healthy domestic pet rabbits. Research in Veterinary Science, 2014, 97, 376-381.	0.9	5
104	Management interventions in dairy herds: Exploring within herd uncertainty using an integrated Bayesian model. Veterinary Research, 2010, 41, 22.	1.1	5
105	Bayesian estimation of variance partition coefficients adjusted for imperfect test sensitivity and specificity. Preventive Veterinary Medicine, 2009, 89, 155-162.	0.7	4
106	DEEP: A Provenance-Aware Executable Document System. Lecture Notes in Computer Science, 2012, , 24-38.	1.0	4
107	A Longitudinal Mixed Logit Model for Estimation of Push and Pull Effects in Residential Location Choice. Journal of the American Statistical Association, 2016, 111, 1061-1074.	1.8	3
108	The Early Social Cognition Inventory (ESCI): An examination of its psychometric properties from birth to 47 months. Behavior Research Methods, 2022, 54, 1200-1226.	2.3	3

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109	Intermediate Notation for Provenance and Workflow Reproducibility. Lecture Notes in Computer Science, 2016, , 83-94.	1.0	3
110	Bayesian analysis of a mastitis control plan to investigate the influence of veterinary prior beliefs on clinical interpretation. Preventive Veterinary Medicine, 2009, 91, 209-217.	0.7	2
111	Editorial: Recent advances in multilevel modelling methodology and applications. Journal of the Royal Statistical Society Series A: Statistics in Society, 2009, 172, 535-536.	0.6	2
112	Statistical Modelling of Neighbor Treatment Effects in Aquaculture Clinical Trials. Journal of Agricultural, Biological, and Environmental Statistics, 2011, 16, 202-220.	0.7	2
113	Factors associated with herd restriction and de-restriction with bovine tuberculosis in British cattle herds. Preventive Veterinary Medicine, 2013, 111, 31-41.	0.7	2
114	Sample size estimation to substantiate freedom from disease for clustered binary data with a specific risk profile. Epidemiology and Infection, 2013, 141, 1318-1327.	1.0	2
115	Covariance Weighted Procrustes Analysis. , 2016, , 189-209.		2
116	The Early Humor Survey (EHS): A reliable parent-report measure of humor development for 1- to 47-month-olds. Behavior Research Methods, 2022, 54, 1928-1953.	2.3	2
117	Discussion on the paper by Pardoe and Weidner. Journal of Statistical Planning and Inference, 2006, 136, 1462-1465.	0.4	1
118	Weekly and Daily Tooth Brushing by Care Staff Reduces Gingivitis and Calculus in Racing Greyhounds. Animals, 2021, 11, 1869.	1.0	1
119	Mastitis control: From science to practice. , 2008, , .		1
120	Hierarchical Modelling: Multilevel Modelling of Medical Data. , 2005, , 69-93.		0
121	Decomposing Ethnic Achievement Gaps across Multiple Levels of Analysis and for Multiple Ethnic Groups. Sociological Methodology, 0, , 008117502210995.	1.4	0