

William J Browne

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

14,425
citations

39
h-index

120
g-index

131
ext. papers

18,063
ext. citations

3.4
avg, IF

6.55
L-index

#	Paper	IF	Citations
119	Improving bioscience research reporting: the ARRIVE guidelines for reporting animal research. <i>PLoS Biology</i> , 2010 , 8, e1000412	9.7	4220
118	Animal research: reporting in vivo experiments: the ARRIVE guidelines. <i>British Journal of Pharmacology</i> , 2010 , 160, 1577-9	8.6	2654
117	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. <i>PLoS Biology</i> , 2020 , 18, e3000410	9.7	757
116	Partitioning Variation in Multilevel Models. <i>Understanding Statistics</i> , 2002 , 1, 223-231		511
115	Improving bioscience research reporting: The ARRIVE guidelines for reporting animal research. <i>Journal of Pharmacology and Pharmacotherapeutics</i> , 2010 , 1, 94-9	0.2	478
114	A comparison of Bayesian and likelihood-based methods for fitting multilevel models. <i>Bayesian Analysis</i> , 2006 , 1, 473	2.3	357
113	Reporting animal research: Explanation and elaboration for the ARRIVE guidelines 2.0. <i>PLoS Biology</i> , 2020 , 18, e3000411	9.7	352
112	Improving bioscience research reporting: the ARRIVE guidelines for reporting animal research. <i>Osteoarthritis and Cartilage</i> , 2012 , 20, 256-60	6.2	340
111	Animal research: reporting in vivo experiments--the ARRIVE guidelines. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 991-3	7.3	315
110	Variance partitioning in multilevel logistic models that exhibit overdispersion. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2005 , 168, 599-613	2.1	278
109	Multilevel modelling of medical data. <i>Statistics in Medicine</i> , 2002 , 21, 3291-315	2.3	267
108	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020 , 40, 1769-1777	7.3	220
107	Multiple membership multiple classification (MMMC) models. <i>Statistical Modelling</i> , 2001 , 1, 103-124	0.7	199
106	Animal research: reporting in vivo experiments: the ARRIVE guidelines. <i>Journal of Gene Medicine</i> , 2010 , 12, 561-3	3.5	179
105	Number and ownership profiles of cats and dogs in the UK. <i>Veterinary Record</i> , 2010 , 166, 163-8	0.9	164
104	2003 ,		149
103	BonesTadaptive 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. <i>Journal of Bone and Mineral Research</i> , 2012 , 27, 1784-93	6.3	142

102	Implementation and performance issues in the Bayesian and likelihood fitting of multilevel models. <i>Computational Statistics</i> , 2000 , 15, 391-420	1	136
101	Multiple membership multiple classification (MMMC) models. <i>Statistical Modelling</i> , 2001 , 1, 103-124	0.7	125
100	Improving bioscience research reporting: the ARRIVE guidelines for reporting animal research. <i>Veterinary Clinical Pathology</i> , 2012 , 41, 27-31	1	122
99	Cow, farm, and management factors during the dry period that determine the rate of clinical mastitis after calving. <i>Journal of Dairy Science</i> , 2007 , 90, 3764-76	4	113
98	Associations between welfare indicators and environmental choice in laying hens. <i>Animal Behaviour</i> , 2009 , 78, 413-424	2.8	105
97	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. <i>British Journal of Pharmacology</i> , 2020 , 177, 3617-3624	8.6	99
96	Improving Bioscience Research Reporting: The ARRIVE Guidelines for Reporting Animal Research. <i>Animals</i> , 2014 , 4, 35-44	3.1	92
95	A general multilevel multistate competing risks model for event history data, with an application to a study of contraceptive use dynamics. <i>Statistical Modelling</i> , 2004 , 4, 145-159	0.7	81
94	Feline extranodal lymphoma: response to chemotherapy and survival in 110 cats. <i>Journal of Small Animal Practice</i> , 2009 , 50, 584-92	1.6	78
93	Multiple-membership multiple-classification models for social network and group dependences. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2014 , 177, 439-455	2.1	77
92	Animal research: reporting in vivo experiments: the ARRIVE guidelines. <i>Journal of Physiology</i> , 2010 , 588, 2519-21	3.9	62
91	Fitting multilevel multivariate models with missing data in responses and covariates that may include interactions and non-linear terms. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2014 , 177, 553-564	2.1	53
90	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. <i>Bone</i> , 2013 , 54, 113-7	4.7	51
89	Assessing changes in the UK pet cat and dog populations: numbers and household ownership. <i>Veterinary Record</i> , 2015 , 177, 259	0.9	50
88	Modeling Heterogeneous Variance-Covariance Components in Two-Level Models. <i>Journal of Educational and Behavioral Statistics</i> , 2014 , 39, 307-332	1.7	50
87	Cow, farm, and herd management factors in the dry period associated with raised somatic cell counts in early lactation. <i>Journal of Dairy Science</i> , 2008 , 91, 1403-15	4	49
86	Risk factors identified for owner-reported feline obesity at around one year of age: Dry diet and indoor lifestyle. <i>Preventive Veterinary Medicine</i> , 2015 , 121, 273-81	3.1	43
85	Clustering and synchrony in laying hens: The effect of environmental resources on social dynamics. <i>Applied Animal Behaviour Science</i> , 2011 , 129, 43-53	2.2	42

84	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. <i>BMC Veterinary Research</i> , 2020 , 16, 242	2.7	42
83	Sampling strategies for monitoring lameness in dairy cattle. <i>Journal of Dairy Science</i> , 2010 , 93, 1970-8	4	41
82	A Study of Class Size Effects in English School Reception Year Classes. <i>British Educational Research Journal</i> , 2002 , 28, 169-185	1.6	40
81	Positive affective state induced by opioid analgesia in laying hens with bone fractures. <i>Applied Animal Behaviour Science</i> , 2013 , 147, 127-131	2.2	39
80	Seasonal variation of bulk milk somatic cell counts in UK dairy herds: investigations of the summer rise. <i>Preventive Veterinary Medicine</i> , 2006 , 74, 293-308	3.1	39
79	Using cross-classified multivariate mixed response models with application to life history traits in great tits (<i>Parus major</i>). <i>Statistical Modelling</i> , 2007 , 7, 217-238	0.7	39
78	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. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2009 , 172, 579-598	2.1	37
77	R2MLwiN: A Package to RunMLwiNfrom withinR. <i>Journal of Statistical Software</i> , 2016 , 72,	7.3	37
76	Bayesian and likelihood methods for fitting multilevel models with complex level-1 variation. <i>Computational Statistics and Data Analysis</i> , 2002 , 39, 203-225	1.6	35
75	Multivariate multilevel analyses of examination results. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2002 , 165, 137-153	2.1	34
74	Non-Hierarchical Multilevel Models 2008 , 301-334		33
73	Elastography of the normal canine liver, spleen and kidneys. <i>Veterinary Radiology and Ultrasound</i> , 2014 , 55, 620-7	1.2	32
72	The ARRIVE guidelines 2019: updated guidelines for reporting animal research		32
71	Navigating the iceberg: reducing the number of parameters within the Welfare Quality(□) assessment protocol for dairy cows. <i>Animal</i> , 2014 , 8, 1978-86	3.1	31
70	The ARRIVE guidelines 2.0: updated guidelines for reporting animal research. <i>BMJ Open Science</i> , 2020 , 4, e100115	4.6	30
69	Housing conditions affect rat responses to two types of ambiguity in a reward-reward discrimination cognitive bias task. <i>Behavioural Brain Research</i> , 2014 , 274, 73-83	3.4	29
68	Use of individual cow milk recording data at the start of lactation to predict the calving to conception interval. <i>Journal of Dairy Science</i> , 2010 , 93, 4677-90	4	29
67	The effect of sampling strategy on the estimated prevalence of welfare outcome measures on finishing pig farms. <i>Applied Animal Behaviour Science</i> , 2009 , 119, 39-48	2.2	29

66	Somatic cell count dynamics in a large sample of dairy herds in England and Wales. <i>Preventive Veterinary Medicine</i> , 2010 , 96, 56-64	3.1	28
65	The place of experimental design and statistics in the 3Rs. <i>ILAR Journal</i> , 2014 , 55, 477-85	1.7	26
64	Scientific rigor and the art of motorcycle maintenance. <i>Nature Biotechnology</i> , 2014 , 32, 871-3	44.5	26
63	Multilevel Models in the Study of Dynamic Household Structures. <i>European Journal of Population</i> , 2000 , 16, 373-387	2.3	26
62	MCMC algorithms for constrained variance matrices. <i>Computational Statistics and Data Analysis</i> , 2006 , 50, 1655-1677	1.6	25
61	Experimentally manipulating light spectra reveals the importance of dark corridors for commuting bats. <i>Global Change Biology</i> , 2018 , 24, 5909-5918	11.4	25
60	Cage aggression in group-housed laboratory male mice: an international data crowdsourcing project. <i>Scientific Reports</i> , 2019 , 9, 15211	4.9	24
59	Towards humane end points: behavioural changes precede clinical signs of disease in a Huntington's disease model. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008 , 275, 1865-74	4.4	22
58	Outcomes and complications associated with epicardial pacemakers in 28 dogs and 5 cats. <i>Veterinary Surgery</i> , 2013 , 42, 544-50	1.7	21
57	Revision of the ARRIVE guidelines: rationale and scope. <i>BMJ Open Science</i> , 2018 , 2, e000002	4.6	20
56	Early-life risk factors identified for owner-reported feline overweight and obesity at around two years of age. <i>Preventive Veterinary Medicine</i> , 2017 , 143, 39-48	3.1	19
55	Implementing Welfare Quality [®] in UK assurance schemes: evaluating the challenges. <i>Animal Welfare</i> , 2014 , 23, 95-107	2.9	19
54	Decisions about foraging and risk trade-offs in chickens are associated with individual somatic response profiles. <i>Animal Behaviour</i> , 2011 , 82, 255-262	2.8	19
53	Animal research: reporting in vivo experiments: the ARRIVE guidelines. <i>Experimental Physiology</i> , 2010 , 95, 842-4	2.4	19
52	Welfare outcomes assessment in laying hen farm assurance schemes. <i>Animal Welfare</i> , 2012 , 21, 389-396	2.9	19
51	A Screen-Peck Task for Investigating Cognitive Bias in Laying Hens. <i>PLoS ONE</i> , 2016 , 11, e0158222	3.7	18
50	MCMC Sampling for a Multilevel Model With Nonindependent Residuals Within and Between Cluster Units. <i>Journal of Educational and Behavioral Statistics</i> , 2010 , 35, 453-473	1.7	17
49	Consistency, transitivity and inter-relationships between measures of choice in environmental preference tests with chickens. <i>Behavioural Processes</i> , 2010 , 83, 72-8	1.6	16

48	Use of posterior predictive assessments to evaluate model fit in multilevel logistic regression. <i>Veterinary Research</i> , 2009 , 40, 30	3.8	14
47	A Large-Scale Replication of the Effectiveness of the KiVa Antibullying Program: a Randomized Controlled Trial in the Netherlands. <i>Prevention Science</i> , 2020 , 21, 627-638	4	13
46	Prospective study of the effect of exposure to other smokers in high school tutor groups on the risk of incident smoking in adolescence. <i>American Journal of Epidemiology</i> , 2004 , 159, 127-32	3.8	13
45	M-mode, two-dimensional and Doppler echocardiographic findings in 40 healthy domestic pet rabbits. <i>Journal of Veterinary Cardiology</i> , 2014 , 16, 101-8	1.9	12
44	Multilevel growth curve models that incorporate a random coefficient model for the level 1 variance function. <i>Statistical Methods in Medical Research</i> , 2018 , 27, 3478-3491	2.3	11
43	Risk factors for a high somatic cell count at the first milk recording in a large sample of UK dairy herds. <i>Journal of Dairy Science</i> , 2012 , 95, 1873-84	4	10
42	Mild environmental aversion is detected by a discrete-choice preference testing method but not by a free-access method. <i>Applied Animal Behaviour Science</i> , 2011 , 134, 152-163	2.2	10
41	A comparison of the hierarchical likelihood and Bayesian approaches to spatial epidemiological modelling. <i>Environmetrics</i> , 2007 , 18, 809-821	1.3	10
40	Managing Conflict between Bats and Humans: The Response of Soprano Pipistrelles (<i>Pipistrellus pygmaeus</i>) to Exclusion from Roosts in Houses. <i>PLoS ONE</i> , 2015 , 10, e0131825	3.7	10
39	Mitigating the Impact of Bats in Historic Churches: The Response of Natterer's Bats <i>Myotis nattereri</i> to Artificial Roosts and Deterrence. <i>PLoS ONE</i> , 2016 , 11, e0146782	3.7	10
38	State-dependent judgement bias in : evidence for evolutionarily primitive affective processes. <i>Biology Letters</i> , 2018 , 14,	3.6	9
37	Temperament, age and weather predict social interaction in the sheep flock. <i>Behavioural Processes</i> , 2016 , 131, 53-8	1.6	9
36	Partitioning variation in multilevel models for count data. <i>Psychological Methods</i> , 2020 , 25, 787-801	7.1	9
35	Bayesian mixture models for partially verified data: age- and stage-specific discriminatory power of an antibody ELISA for paratuberculosis. <i>Preventive Veterinary Medicine</i> , 2013 , 111, 200-5	3.1	8
34	Mechanical comparison of median sternotomy closure in dogs using polydioxanone and wire sutures. <i>Journal of Small Animal Practice</i> , 2011 , 52, 582-6	1.6	8
33	Surface shape analysis with an application to brain surface asymmetry in schizophrenia. <i>Biostatistics</i> , 2010 , 11, 609-30	3.7	8
32	Estimation of a large cross-classified multilevel model to study academic achievement in a modular degree course. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2003 , 166, 119-133	2.1	8
31	Sequential sampling: a novel method in farm animal welfare assessment. <i>Animal</i> , 2016 , 10, 349-56	3.1	7

30	A Bayesian micro-simulation to evaluate the cost-effectiveness of interventions for mastitis control during the dry period in UK dairy herds. <i>Preventive Veterinary Medicine</i> , 2016 , 133, 64-72	3.1	6
29	Impact of imperfect test sensitivity on determining risk factors: the case of bovine tuberculosis. <i>PLoS ONE</i> , 2012 , 7, e43116	3.7	5
28	Do Formal Inspections Ensure that British Zoos Meet and Improve on Minimum Animal Welfare Standards?. <i>Animals</i> , 2013 , 3, 1058-72	3.1	5
27	A Bayesian Weibull survival model for time to infection data measured with delay. <i>Preventive Veterinary Medicine</i> , 2010 , 94, 191-201	3.1	5
26	A Bayesian model for measurement and misclassification errors alongside missing data, with an application to higher education participation in Australia. <i>Journal of Applied Statistics</i> , 2018 , 45, 918-931 ¹		5
25	A semi-parametric model for lactation curves: development and application. <i>Preventive Veterinary Medicine</i> , 2012 , 105, 38-48	3.1	4
24	The anterior tooth development of cattle presented for slaughter: an analysis of age, sex and breed. <i>Animal</i> , 2013 , 7, 1323-31	3.1	4
23	Mixed effect modelling of proteomic mass spectrometry data by using Gaussian mixtures. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2010 , 59, 617	1.5	4
22	Bayesian estimation of variance partition coefficients adjusted for imperfect test sensitivity and specificity. <i>Preventive Veterinary Medicine</i> , 2009 , 89, 155-62	3.1	4
21	Management interventions in dairy herds: exploring within herd uncertainty using an integrated Bayesian model. <i>Veterinary Research</i> , 2010 , 41, 22	3.8	4
20	Reporting animal research: Explanation and Elaboration for the ARRIVE guidelines 2019		4
19	DEEP: A Provenance-Aware Executable Document System. <i>Lecture Notes in Computer Science</i> , 2012 , 24-38.9		4
18	Aerosol and droplet generation from performing with woodwind and brass instruments. <i>Aerosol Science and Technology</i> , 2021 , 55, 1277-1287	3.4	4
17	Left ventricular radial colour and longitudinal pulsed-wave tissue Doppler echocardiography in 39 healthy domestic pet rabbits. <i>Research in Veterinary Science</i> , 2014 , 97, 376-81	2.5	3
16	Intermediate Notation for Provenance and Workflow Reproducibility. <i>Lecture Notes in Computer Science</i> , 2016 , 83-94	0.9	3
15	Quantifying defence cascade responses as indicators of pig affect and welfare using computer vision methods. <i>Scientific Reports</i> , 2020 , 10, 8933	4.9	3
14	A Longitudinal Mixed Logit Model for Estimation of Push and Pull Effects in Residential Location Choice. <i>Journal of the American Statistical Association</i> , 2016 , 111, 1061-1074	2.8	2
13	Factors associated with herd restriction and de-restriction with bovine tuberculosis in British cattle herds. <i>Preventive Veterinary Medicine</i> , 2013 , 111, 31-41	3.1	2

12	Statistical Modelling of Neighbor Treatment Effects in Aquaculture Clinical Trials. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2011 , 16, 202-220	1.9	2
11	Comparing aerosol number and mass exhalation rates from children and adults during breathing, speaking and singing.. <i>Interface Focus</i> , 2022 , 12, 20210078	3.9	2
10	Covariance Weighted Procrustes Analysis 2016 , 189-209		2
9	Sample size estimation to substantiate freedom from disease for clustered binary data with a specific risk profile. <i>Epidemiology and Infection</i> , 2013 , 141, 1318-27	4.3	1
8	Bayesian analysis of a mastitis control plan to investigate the influence of veterinary prior beliefs on clinical interpretation. <i>Preventive Veterinary Medicine</i> , 2009 , 91, 209-17	3.1	1
7	Discussion on the paper by Pardoe and Weidner. <i>Journal of Statistical Planning and Inference</i> , 2006 , 136, 1462-1465	0.8	1
6	Multilevel Models1-8		1
5	The Early Social Cognition Inventory (ESCI): An examination of its psychometric properties from birth to 47 months. <i>Behavior Research Methods</i> , 2021 , 1	6.1	1
4	The Early Humor Survey (EHS): A reliable parent-report measure of humor development for 1- to 47-month-olds. <i>Behavior Research Methods</i> , 2021 , 1	6.1	0
3	Assessing animal welfare: a triangulation of preference, judgement bias and other candidate welfare indicators. <i>Animal Behaviour</i> , 2022 , 186, 151-177	2.8	0
2	Multilevel Models 2016 , 1-8		
1	Hierarchical Modelling: Multilevel Modelling of Medical Data 2005 , 69-93		