

Alistair B Lawrence

List of Publications by Year in descending order

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Version: 2024-02-01

133
papers

7,677
citations

41258

49
h-index

58464

82
g-index

137
all docs

137
docs citations

137
times ranked

3439
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the "whole animal": a free choice profiling approach. <i>Animal Behaviour</i> , 2001, 62, 209-220.	0.8	286
2	Investigating the behavioural and physiological indicators of neonatal survival in pigs. <i>Theriogenology</i> , 2008, 69, 773-783.	0.9	241
3	A review of behavioral factors involved in the development and continued performance of stereotypic behaviors in pigs. <i>Journal of Animal Science</i> , 1993, 71, 2815-2825.	0.2	234
4	The spontaneous qualitative assessment of behavioural expressions in pigs: first explorations of a novel methodology for integrative animal welfare measurement. <i>Applied Animal Behaviour Science</i> , 2000, 67, 193-215.	0.8	228
5	The accumulation of skin lesions and their use as a predictor of individual aggressiveness in pigs. <i>Applied Animal Behaviour Science</i> , 2006, 96, 245-259.	0.8	228
6	Housing System, Milk Production, and Zero-Grazing Effects on Lameness and Leg Injury in Dairy Cows. <i>Journal of Dairy Science</i> , 2006, 89, 4259-4266.	1.4	217
7	The welfare implications of large litter size in the domestic pig I: biological factors. <i>Animal Welfare</i> , 2013, 22, 199-218.	0.3	217
8	Influences of feeding level and physical restriction on development of stereotypies in sows. <i>Animal Behaviour</i> , 1991, 42, 981-991.	0.8	197
9	Food restriction as a cause of stereotypic behaviour in tethered gilts. <i>Animal Science</i> , 1987, 45, 103-110.	1.3	188
10	The effect of environment on behaviour, plasma cortisol and prolactin in parturient sows. <i>Applied Animal Behaviour Science</i> , 1994, 39, 313-330.	0.8	166
11	The welfare implications of large litter size in the domestic pig II: management factors. <i>Animal Welfare</i> , 2013, 22, 219-238.	0.3	155
12	"Freedom from hunger" and preventing obesity: the animal welfare implications of reducing food quantity or quality. <i>Animal Behaviour</i> , 2009, 77, 275-288.	0.8	154
13	Injurious tail biting in pigs: how can it be controlled in existing systems without tail docking?. <i>Animal</i> , 2014, 8, 1479-1497.	1.3	139
14	Ewe "lamb bonding behaviours at birth are affected by maternal undernutrition in pregnancy. <i>British Journal of Nutrition</i> , 2003, 89, 123-136.	1.2	128
15	Programming the offspring of the pig by prenatal social stress: Neuroendocrine activity and behaviour. <i>Hormones and Behavior</i> , 2006, 49, 68-80.	1.0	124
16	Individual differences in behavioural responses of pigs exposed to non-social and social challenges. <i>Applied Animal Behaviour Science</i> , 1991, 30, 73-86.	0.8	120
17	Qualitative Behavioural Assessment of emotionality in pigs. <i>Applied Animal Behaviour Science</i> , 2012, 139, 218-224.	0.8	120
18	Naloxone prevents interruption of parturition and increases plasma oxytocin following environmental disturbance in parturient sows. <i>Physiology and Behavior</i> , 1992, 52, 917-923.	1.0	114

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19	Lameness prevalence and risk factors in organic and non-organic dairy herds in the United Kingdom. <i>Veterinary Journal</i> , 2009, 180, 95-105.	0.6	111
20	Effect of group size on feeding behaviour, social behaviour, and performance of growing pigs using single-space feeders. <i>Livestock Science</i> , 1995, 44, 73-85.	1.2	110
21	A review of the behavioural and physiological adaptations of hill and lowland breeds of sheep that favour lamb survival. <i>Applied Animal Behaviour Science</i> , 2005, 92, 235-260.	0.8	109
22	Genetic validation of postmixing skin injuries in pigs as an indicator of aggressiveness and the relationship with injuries under more stable social conditions. <i>Journal of Animal Science</i> , 2009, 87, 3076-3082.	0.2	107
23	Variability in the expression of maternal behaviour in primiparous sheep: Effects of genotype and litter size. <i>Applied Animal Behaviour Science</i> , 1998, 58, 311-330.	0.8	104
24	Alternative farrowing systems: design criteria for farrowing systems based on the biological needs of sows and piglets. <i>Animal</i> , 2011, 5, 580-600.	1.3	98
25	What Is so Positive about Positive Animal Welfare?â€”A Critical Review of the Literature. <i>Animals</i> , 2019, 9, 783.	1.0	96
26	Provision of straw as a foraging substrate reduces the development of excessive chain and bar manipulation in food restricted sows. <i>Applied Animal Behaviour Science</i> , 1995, 43, 249-262.	0.8	92
27	Alternative farrowing accommodation: welfare and economic aspects of existing farrowing and lactation systems for pigs. <i>Animal</i> , 2012, 6, 96-117.	1.3	87
28	The effect of parity and environmental restriction on behavioural and physiological responses of pre-parturient pigs. <i>Applied Animal Behaviour Science</i> , 2001, 71, 203-216.	0.8	85
29	Hock Injury Prevalence and Associated Risk Factors on Organic and Nonorganic Dairy Farms in the United Kingdom. <i>Journal of Dairy Science</i> , 2008, 91, 2265-2274.	1.4	80
30	Indicators of piglet survival in an outdoor farrowing system. <i>Livestock Science</i> , 2009, 124, 266-276.	0.6	79
31	Individual behavioural differences in pigs: intra-and inter-test consistency. <i>Applied Animal Behaviour Science</i> , 1996, 49, 185-198.	0.8	77
32	Opioid-mediated changes in nociceptive threshold during pregnancy and parturition in the sow. <i>Pain</i> , 1997, 72, 153-159.	2.0	72
33	The responsiveness of sows to their piglets in relation to the length of parturition and the involvement of endogenous opioids. <i>Applied Animal Behaviour Science</i> , 1999, 63, 195-207.	0.8	72
34	MATERNAL BEHAVIOUR IN DOMESTIC SHEEP (OVIS ARIES): CONSTANCY AND CHANGE WITH MATERNAL EXPERIENCE. <i>Behaviour</i> , 2000, 137, 1391-1413.	0.4	70
35	Pigsâ€™ aggressive temperament affects pre-slaughter mixing aggression, stress and meat quality. <i>Animal</i> , 2010, 4, 604-616.	1.3	69
36	Why are most EU pigs tail docked? Economic and ethical analysis of four pig housing and management scenarios in the light of EU legislation and animal welfare outcomes. <i>Animal</i> , 2016, 10, 687-699.	1.3	69

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37	Diversity of behaviour during novel object tests is reduced in pigs housed in substrate-impooverished conditions. <i>Animal Behaviour</i> , 2000, 60, 385-394.	0.8	63
38	Genetic and environmental effects on piglet survival and maternal behaviour of the farrowing sow. <i>Applied Animal Behaviour Science</i> , 2011, 130, 28-41.	0.8	62
39	Consumer demand theory and the assessment of animal welfare. <i>Animal Behaviour</i> , 1987, 35, 293-295.	0.8	61
40	Bayesian Analysis of Genetic Associations of Skin Lesions and Behavioural Traits to Identify Genetic Components of Individual Aggressiveness in Pigs. <i>Behavior Genetics</i> , 2008, 38, 67-75.	1.4	61
41	Genetics of animal temperament: aggressive behaviour at mixing is genetically associated with the response to handling in pigs. <i>Animal</i> , 2009, 3, 1544-1554.	1.3	61
42	The effect of confinement during lactation on the hypothalamicâ€“pituitaryâ€“adrenal axis and behaviour of primiparous sows. <i>Physiology and Behavior</i> , 2006, 87, 345-352.	1.0	60
43	The effect of perceived environmental background on qualitative assessments of pig behaviour. <i>Animal Behaviour</i> , 2009, 78, 477-484.	0.8	58
44	Feeding behaviour of growing pigs using single or multi-space feeders. <i>Applied Animal Behaviour Science</i> , 1996, 47, 235-246.	0.8	56
45	Heritability of post-mixing aggressiveness in grower-stage pigs and its relationship with production traits. <i>Animal Science</i> , 2006, 82, 615-620.	1.3	56
46	Assessing pig body language: Agreement and consistency between pig farmers, veterinarians, and animal activists ¹ . <i>Journal of Animal Science</i> , 2012, 90, 3652-3665.	0.2	56
47	Prenatal stress produces anxiety prone female offspring and impaired maternal behaviour in the domestic pig. <i>Physiology and Behavior</i> , 2014, 129, 255-264.	1.0	54
48	Measuring sociability in dairy cows. <i>Applied Animal Behaviour Science</i> , 2010, 122, 84-91.	0.8	53
49	Ingestion of food facilitates the performance of stereotypies in sows. <i>Animal Behaviour</i> , 1993, 46, 939-950.	0.8	52
50	Responsiveness of dairy cows to human approach and novel stimuli. <i>Applied Animal Behaviour Science</i> , 2009, 116, 163-173.	0.8	52
51	Emotionality in growing pigs: Is the open field a valid test?. <i>Physiology and Behavior</i> , 2011, 104, 906-913.	1.0	52
52	The effect of a foraging device (The â€“Edinburgh Footballâ€“™) on the behaviour of pigs. <i>Applied Animal Behaviour Science</i> , 1994, 39, 237-247.	0.8	49
53	Evidence for litter differences in play behaviour in pre-weaned pigs. <i>Applied Animal Behaviour Science</i> , 2015, 172, 17-25.	0.8	49
54	Mother-daughter and peer relationships of Scottish hill sheep. <i>Animal Behaviour</i> , 1990, 39, 481-486.	0.8	48

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55	Relationship between plasma cortisol and stereotypic activities in pigs. <i>Behavioural Processes</i> , 1991, 25, 133-153.	0.5	48
56	The responses of growing pigs to a chronic-intermittent stress treatment. <i>Physiology and Behavior</i> , 2006, 89, 670-680.	1.0	48
57	Qualitative Assessment of Animal Behaviour as an On-Farm Welfare-monitoring Tool. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 2001, 51, 21-25.	0.2	46
58	Early life predictors of the development of aggressive behaviour in the domestic pig. <i>Animal Behaviour</i> , 2004, 67, 501-509.	0.8	46
59	Individual differences in responses of piglets to weaning at different ages. <i>Applied Animal Behaviour Science</i> , 2003, 80, 117-132.	0.8	44
60	Savaging gilts are more restless and more responsive to piglets during the expulsive phase of parturition. <i>Applied Animal Behaviour Science</i> , 2002, 76, 83-91.	0.8	43
61	Pre-natal stress amplifies the immediate behavioural responses to acute pain in piglets. <i>Biology Letters</i> , 2009, 5, 452-454.	1.0	43
62	Consistency of flight speed and response to restraint in a crush in dairy cattle. <i>Applied Animal Behaviour Science</i> , 2011, 131, 15-20.	0.8	43
63	Effects of weaning age on the behavioural and neuroendocrine development of piglets. <i>Applied Animal Behaviour Science</i> , 2008, 110, 166-181.	0.8	42
64	The Effect of Substrate-Enriched and Substrate-Impoverished Housing Environments On the Diversity of Behaviour in Pigs. <i>Behaviour</i> , 1996, 133, 741-761.	0.4	41
65	Detrended fluctuation analysis of behavioural responses to mild acute stressors in domestic hens. <i>Applied Animal Behaviour Science</i> , 2003, 83, 125-139.	0.8	41
66	Genetic analyses of piglet survival and individual birth weight on first generation data of a selection experiment for piglet survival under outdoor conditions. <i>Livestock Science</i> , 2009, 121, 173-181.	0.6	41
67	Long-term effects of food allowance and housing on development of stereotypies in pigs. <i>Applied Animal Behaviour Science</i> , 1993, 38, 103-126.	0.8	40
68	The impact of prenatal stress on basal nociception and evoked responses to tail-docking and inflammatory challenge in juvenile pigs. <i>Physiology and Behavior</i> , 2011, 104, 728-737.	1.0	39
69	BOARD INVITED REVIEW: The importance of the gestation period for welfare of calves: Maternal stressors and difficult births ¹ . <i>Journal of Animal Science</i> , 2012, 90, 5021-5034.	0.2	39
70	“Mum cleaned it and I just played with it”: Children’s perceptions of their roles and responsibilities in the care of family pets. <i>Childhood</i> , 2015, 22, 201-216.	0.6	39
71	Prioritization of Farm Animal Welfare Issues Using Expert Consensus. <i>Frontiers in Veterinary Science</i> , 2019, 6, 495.	0.9	38
72	The Short Attachment to Pets Scale (SAPS) for Children and Young People: Development, Psychometric Qualities and Demographic and Health Associations. <i>Child Indicators Research</i> , 2016, 9, 111-131.	1.1	37

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73	Genetic parameters of piglet survival and birth weight from a two-generation crossbreeding experiment under outdoor conditions designed to disentangle direct and maternal effects ¹ . <i>Journal of Animal Science</i> , 2010, 88, 1276-1285.	0.2	36
74	Prepartum plasma estradiol and postpartum cortisol, but not oxytocin, are associated with interindividual and breed differences in the expression of maternal behaviour in sheep. <i>Hormones and Behavior</i> , 2004, 46, 529-543.	1.0	35
75	Applied animal behaviour science: Past, present and future prospects. <i>Applied Animal Behaviour Science</i> , 2008, 115, 1-24.	0.8	35
76	Quality of life and adolescents' communication with their significant others (mother, father, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 278-297.	1.2	35
77	Consistency of aggressive feeding behaviour in dairy cows. <i>Applied Animal Behaviour Science</i> , 2009, 121, 1-7.	0.8	33
78	Farm animal welfare: assessing risks attributable to the prenatal environment. <i>Animal Welfare</i> , 2012, 21, 419-429.	0.3	33
79	How can economists help to improve animal welfare?. <i>Animal Welfare</i> , 2012, 21, 1-10.	0.3	32
80	The behavioural effects of undernutrition in confined farm animals. <i>Proceedings of the Nutrition Society</i> , 1993, 52, 219-229.	0.4	31
81	Relationship between maternal defensive aggression, fear of handling and other maternal care traits in beef cows. <i>Livestock Science</i> , 2007, 106, 182-188.	0.6	31
82	Exploring Children's Perspectives on the Welfare Needs of Pet Animals. <i>Anthrozoos</i> , 2016, 29, 357-375.	0.7	30
83	Resident-Intruder Trait Aggression is Associated with Differences in Lysine Vasopressin and Serotonin Receptor 1A (5-HT1A) mRNA Expression in the Brain of Pre-Pubertal Female Domestic Pigs (<i>Sus scrofa</i>). <i>Journal of Neuroendocrinology</i> , 2005, 17, 679-686.	1.2	29
84	Effect of individual housing on the feeding behaviour of previously group housed growing pigs. <i>Applied Animal Behaviour Science</i> , 1996, 47, 149-161.	0.8	28
85	Subordination style in pigs? The response of pregnant sows to mixing stress affects their offspring's behaviour and stress reactivity. <i>Applied Animal Behaviour Science</i> , 2010, 124, 16-27.	0.8	28
86	Dairy cows trade-off feed quality with proximity to a dominant individual in Y-maze choice tests. <i>Applied Animal Behaviour Science</i> , 2009, 117, 159-164.	0.8	27
87	Physiological Correlates of Maternal Offspring Behaviour in Sheep. <i>Physiology and Behavior</i> , 1999, 67, 443-454.	1.0	26
88	What Are the Positives? Exploring Positive Welfare Indicators in a Qualitative Interview Study with Livestock Farmers. <i>Animals</i> , 2019, 9, 694.	1.0	26
89	Experience in Substrate-Enriched and Substrate-Imperished Environments Affects Behaviour of Pigs in a T-Maze Task. <i>Behaviour</i> , 1997, 134, 643-659.	0.4	25
90	Genetic associations between behavioral traits and direct-social effects of growth rate in pigs ¹ . <i>Journal of Animal Science</i> , 2012, 90, 4706-4715.	0.2	25

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91	Positive welfare. , 2018, , 415-444.		25
92	The effect of organic status and management practices on somatic cell counts on UK dairy farms. Journal of Dairy Science, 2009, 92, 3775-3780.	1.4	24
93	A comparison of management practices, farmer-perceived disease incidence and winter housing on organic and non-organic dairy farms in the UK. Journal of Dairy Research, 2009, 76, 6-14.	0.7	23
94	Precalving temperament and maternal defensiveness are independent traits but precalving fear may impact calf growth ¹ . Journal of Animal Science, 2013, 91, 4417-4425.	0.2	23
95	Do Domestic Pigs in Controlled Environments Contrafreeload?. Journal of Applied Animal Welfare Science, 2003, 6, 309-318.	0.4	22
96	The Nature and Psychological Impact of Child/Adolescent Attachment to Dogs Compared with Other Companion Animals. Society and Animals, 2019, 27, 55-74.	0.1	22
97	Effects of food level and straw bedding during pregnancy on sow performance and responses to an ACTH challenge. Livestock Science, 1996, 47, 51-57.	1.2	21
98	Characterization of the Dairy Farm Environment in Great Britain and the Effect of the Farm Environment on Cow Life Span. Journal of Dairy Science, 2007, 90, 5316-5323.	1.4	21
99	Dairy cow feeding space requirements assessed in a Y-maze choice test. Journal of Dairy Science, 2012, 95, 3954-3960.	1.4	21
100	Behavioural responses to amphetamine and apomorphine in pigs. Pharmacology Biochemistry and Behavior, 1992, 43, 329-340.	1.3	19
101	Pre-natal social stress and post-natal pain affect the developing pig reproductive axis. Reproduction, 2011, 142, 907-914.	1.1	19
102	Effect of manipulandum design on operant responding in pigs. Animal Behaviour, 1994, 47, 1488-1490.	0.8	18
103	Estimation of genetic associations between reproduction and production traits based on a sire and dam line with common ancestry. Animal, 2009, 3, 1354-1362.	1.3	17
104	Sociodemographics of Pet Ownership among Adolescents in Great Britain: Findings from the HBSC Study in England, Scotland, and Wales. Anthrozoos, 2016, 29, 559-580.	0.7	17
105	Relationship between agonistic behaviour and propensity to develop excessive drinking and chain manipulation in pigs. Physiology and Behavior, 1991, 50, 493-498.	1.0	16
106	Relationship between amphetamine and environmentally induced stereotypies in pigs. Pharmacology Biochemistry and Behavior, 1992, 43, 347-355.	1.3	16
107	Early weaning results in less active behaviour, accompanied by lower 5-HT1A and higher 5-HT2A receptor mRNA expression in specific brain regions of female pigs. Psychoneuroendocrinology, 2008, 33, 1077-1092.	1.3	16
108	Relationship between feeding, stereotypies, and plasma glucose concentrations in food-restricted and restrained sows. Physiology and Behavior, 1993, 54, 189-193.	1.0	14

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109	Playful pigs: Evidence of consistency and change in play depending on litter and developmental stage. <i>Applied Animal Behaviour Science</i> , 2018, 198, 36-43.	0.8	14
110	Odour conditioning of positive affective states: Rats can learn to associate an odour with being tickled. <i>PLoS ONE</i> , 2019, 14, e0212829.	1.1	13
111	The use of a second-order schedule to measure feeding motivation in the pig. <i>Applied Animal Behaviour Science</i> , 1996, 50, 15-31.	0.8	12
112	A study of associations between gastric ulcers and the behaviour of finisher pigs. <i>Livestock Science</i> , 2018, 212, 45-51.	0.6	11
113	Environmentally enriched pigs have transcriptional profiles consistent with neuroprotective effects and reduced microglial activity. <i>Behavioural Brain Research</i> , 2018, 350, 6-15.	1.2	11
114	Relationships between play and responses to tickling in male juvenile rats. <i>Applied Animal Behaviour Science</i> , 2019, 221, 104879.	0.8	10
115	Mother-daughter bonds in sheep. <i>Animal Behaviour</i> , 1991, 42, 683-685.	0.8	9
116	Assessing the welfare challenges to out-wintered pregnant suckler cows. <i>Animal</i> , 2009, 3, 1167-1174.	1.3	9
117	Behavior of cows during and after peak feeding time on organic and conventional dairy farms in the United Kingdom. <i>Journal of Dairy Science</i> , 2011, 94, 746-753.	1.4	9
118	Negative play contagion in calves. <i>Scientific Reports</i> , 2020, 10, 21699.	1.6	9
119	Happy or healthy? How members of the public prioritise farm animal health and natural behaviours. <i>PLoS ONE</i> , 2021, 16, e0247788.	1.1	9
120	Positive Welfare in Science and Society: Differences, Similarities and Synergies. <i>Frontiers in Animal Science</i> , 2021, 2, .	0.8	9
121	Effects of Genotype, Feed Type and Lactational Stage on the Time Budget of Dairy Cows. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 2000, 50, 272-278.	0.2	7
122	The effects of high and low rates of food reinforcement on the behaviour of pigs. <i>Applied Animal Behaviour Science</i> , 1996, 49, 365-374.	0.8	6
123	Up-regulation of IGF-1 in the frontal cortex of piglets exposed to an environmentally enriched arena. <i>Physiology and Behavior</i> , 2017, 173, 285-292.	1.0	6
124	Crying With Laughter: Adapting the Tickling Protocol to Address Individual Differences Among Rats in Their Response to Playful Handling. <i>Frontiers in Veterinary Science</i> , 2021, 8, 677872.	0.9	6
125	Associations between Oxytocin Receptor Gene Polymorphisms, Empathy towards Animals and Implicit Associations towards Animals. <i>Animals</i> , 2018, 8, 140.	1.0	5
126	Understanding Adolescents's™ Categorisation of Animal Species. <i>Animals</i> , 2017, 7, 65.	1.0	4

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127	The Importance of Farm Animal Health and Natural Behaviors to Livestock Farmers: Findings From a Factorial Survey Using Vignettes. <i>Frontiers in Animal Science</i> , 2021, 2, .	0.8	4
128	A note on the effect of handling quality prior to mixing on behaviour at mixing in pigs. <i>Applied Animal Behaviour Science</i> , 2001, 71, 81-86.	0.8	3
129	Evidence for residence-induced enhancement of aggressiveness in the non-territorial pig. <i>Applied Animal Behaviour Science</i> , 2011, 130, 10-19.	0.8	1
130	Enhancing collaboration in the UK animal welfare research community. <i>Veterinary Record</i> , 2016, 178, 138-139.	0.2	1
131	Evidence that Feeding Motivation Alone cannot Explain Oral Stereotypy in Sows. <i>Proceedings of the British Society of Animal Production</i> (1972), 1994, 1994, 45-45.	0.0	0
132	Smart behaviour in a variable world. <i>Applied Animal Behaviour Science</i> , 1997, 54, 43-45.	0.8	0
133	Sustainable Pig Production. , 2017, , 171-185.		0