

Ilias Kyriazakis

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

2,987
citations

186209

28
h-index

189801

50
g-index

104
all docs

104
docs citations

104
times ranked

2919
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of host nutrition on the development and consequences of nematode parasitism in ruminants. <i>Trends in Parasitology</i> , 2001, 17, 325-330.	1.5	282
2	Citizens, consumers and farm animal welfare: A meta-analysis of willingness-to-pay studies. <i>Food Policy</i> , 2017, 68, 112-127.	2.8	211
3	Early detection of health and welfare compromises through automated detection of behavioural changes in pigs. <i>Veterinary Journal</i> , 2016, 217, 43-51.	0.6	172
4	Breeding for efficiency in the broiler chicken: A review. <i>Agronomy for Sustainable Development</i> , 2016, 36, 1.	2.2	130
5	To split behaviour into bouts, log-transform the intervals. <i>Animal Behaviour</i> , 1999, 57, 807-817.	0.8	120
6	Nutrient partitioning between reproductive and immune functions in animals. <i>Proceedings of the Nutrition Society</i> , 2001, 60, 515-525.	0.4	105
7	Automated tracking to measure behavioural changes in pigs for health and welfare monitoring. <i>Scientific Reports</i> , 2017, 7, 17582.	1.6	101
8	Consequences of genetic change in farm animals on food intake and feeding behaviour. <i>Proceedings of the Nutrition Society</i> , 2001, 60, 115-125.	0.4	74
9	Diet selection and animal state: an integrative framework. <i>Proceedings of the Nutrition Society</i> , 1999, 58, 765-772.	0.4	70
10	The need for co-product allocation in the life cycle assessment of agricultural systemsâ€™is â€œbiophysicalâ€ allocation progress?. <i>International Journal of Life Cycle Assessment</i> , 2017, 22, 128-137.	2.2	63
11	Automated Individual Pig Localisation, Tracking and Behaviour Metric Extraction Using Deep Learning. <i>IEEE Access</i> , 2019, 7, 108049-108060.	2.6	63
12	How can we improve the environmental sustainability of poultry production?. <i>Proceedings of the Nutrition Society</i> , 2016, 75, 265-273.	0.4	58
13	Prospects for sustainability of pig production in relation to climate change and novel feed resources. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 3575-3586.	1.7	56
14	Consumer attitudes towards production diseases in intensive production systems. <i>PLoS ONE</i> , 2019, 14, e0210432.	1.1	49
15	Health trajectories reveal the dynamic contributions of host genetic resistance and tolerance to infection outcome. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20152151.	1.2	46
16	Environmental impacts of housing conditions and manure management in European pig production systems through a life cycle perspective: A case study in Denmark. <i>Journal of Cleaner Production</i> , 2020, 253, 120005.	4.6	45
17	The temporal structure of feeding behavior. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R378-R393.	0.9	42
18	Comparing the environmental impacts of alternative protein crops in poultry diets: The consequences of uncertainty. <i>Agricultural Systems</i> , 2013, 121, 33-42.	3.2	42

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19	A Combined Deep Learning GRU-Autoencoder for the Early Detection of Respiratory Disease in Pigs Using Multiple Environmental Sensors. <i>Sensors</i> , 2018, 18, 2521.	2.1	42
20	Automatic recognition of feeding and foraging behaviour in pigs using deep learning. <i>Biosystems Engineering</i> , 2020, 197, 91-104.	1.9	39
21	HERBIVORE PHYSIOLOGICAL STATE AFFECTS FORAGING TRADE-OFF DECISIONS BETWEEN NUTRIENT INTAKE AND PARASITE AVOIDANCE. <i>Ecology</i> , 2001, 82, 1138-1150.	1.5	38
22	A critical reflection on intensive pork production with an emphasis on animal health and welfare. <i>Journal of Animal Science</i> , 2020, 98, S15-S26.	0.2	38
23	Automated recognition of postures and drinking behaviour for the detection of compromised health in pigs. <i>Scientific Reports</i> , 2020, 10, 13665.	1.6	38
24	The effects of condensed tannins supplementation of foods with different protein content on parasitism, food intake and performance of sheep infected with <i>Trichostrongylus colubriformis</i> . <i>British Journal of Nutrition</i> , 2001, 86, 697-706.	1.2	37
25	Does selection for growth rate in broilers affect their resistance and tolerance to <i>Eimeria maxima</i> ?. <i>Veterinary Parasitology</i> , 2018, 258, 88-98.	0.7	37
26	Challenges and priorities for modelling livestock health and pathogens in the context of climate change. <i>Environmental Research</i> , 2016, 151, 130-144.	3.7	35
27	Risk factors for poor health and performance in European broiler production systems. <i>BMC Veterinary Research</i> , 2020, 16, 287.	0.7	35
28	Risk factors associated with the different categories of piglet perinatal mortality in French farms. <i>Preventive Veterinary Medicine</i> , 2017, 137, 1-12.	0.7	32
29	Should we aim for genetic improvement in host resistance or tolerance to infectious pathogens?. <i>Frontiers in Genetics</i> , 2012, 3, 272.	1.1	29
30	The challenge of incorporating animal welfare in a social life cycle assessment model of European chicken production. <i>International Journal of Life Cycle Assessment</i> , 2019, 24, 1093-1104.	2.2	29
31	In silico exploration of the mechanisms that underlie parasite-induced anorexia in sheep. <i>British Journal of Nutrition</i> , 2011, 106, 1023-1039.	1.2	28
32	What is the relationship between level of infection and "sickness behaviour" in cattle?. <i>Applied Animal Behaviour Science</i> , 2013, 147, 1-10.	0.8	28
33	Changes in Faecal Microbiota Profiles Associated With Performance and Birthweight of Piglets. <i>Frontiers in Microbiology</i> , 2020, 11, 917.	1.5	28
34	Is anorexia during infection in animals affected by food composition?. <i>Animal Feed Science and Technology</i> , 2010, 156, 1-9.	1.1	27
35	Porcine lie detectors: Automatic quantification of posture state and transitions in sows using inertial sensors. <i>Computers and Electronics in Agriculture</i> , 2016, 127, 521-530.	3.7	27
36	Factors associated with specific health, welfare and reproductive performance indicators in pig herds from five EU countries. <i>Preventive Veterinary Medicine</i> , 2018, 159, 106-114.	0.7	26

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37	Financial Analysis of Herd Status and Vaccination Practices for Porcine Reproductive and Respiratory Syndrome Virus, Swine Influenza Virus, and Mycoplasma hyopneumoniae in Farrow-to-Finish Pig Farms Using a Bio-Economic Simulation Model. <i>Frontiers in Veterinary Science</i> , 2020, 7, 556674.	0.9	25
38	Partitioning of limiting protein and energy in the growing pig: testing quantitative rules against experimental data. <i>British Journal of Nutrition</i> , 2005, 93, 213-224.	1.2	24
39	Modelling the consequences of targeted selective treatment strategies on performance and emergence of anthelmintic resistance amongst grazing calves. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2016, 6, 258-271.	1.4	23
40	Connecting Different Data Sources to Assess the Interconnections between Biosecurity, Health, Welfare, and Performance in Commercial Pig Farms in Great Britain. <i>Frontiers in Veterinary Science</i> , 2018, 5, 41.	0.9	23
41	Pathogen-induced anorexia: a herbivore strategy or an unavoidable consequence of infection?. <i>Animal Production Science</i> , 2014, 54, 1190.	0.6	23
42	Interactions between dietary calcium and phosphorus level, and vitamin D source on bone mineralization, performance, and intestinal morphology of coccidia-infected broilers. <i>Poultry Science</i> , 2019, 98, 5679-5690.	1.5	21
43	Environment-, health-, performance- and welfare-related parameters in pig barns with natural and mechanical ventilation. <i>Preventive Veterinary Medicine</i> , 2020, 183, 105150.	0.7	21
44	Environmental benefits of using turkey litter as a fuel instead of a fertiliser. <i>Journal of Cleaner Production</i> , 2016, 113, 167-175.	4.6	20
45	The "Real Welfare" scheme: Identification of risk and protective factors for welfare outcomes in commercial pig farms in the UK. <i>Preventive Veterinary Medicine</i> , 2017, 146, 34-43.	0.7	20
46	Use of multi-trait and random regression models to identify genetic variation in tolerance to porcine reproductive and respiratory syndrome virus. <i>Genetics Selection Evolution</i> , 2017, 49, 37.	1.2	20
47	Effects of reducing growth rate via diet dilution on bone mineralization, performance and carcass yield of coccidia-infected broilers. <i>Poultry Science</i> , 2019, 98, 5477-5487.	1.5	20
48	The problem of predicting food intake during the period of adaptation to a new food: a model. <i>British Journal of Nutrition</i> , 2003, 89, 383-399.	1.2	19
49	A reassessment of the vitamin D requirements of modern broiler genotypes. <i>Poultry Science</i> , 2019, 98, 330-340.	1.5	18
50	Quantifying the effect of coccidiosis on broiler performance and infection outcomes in the presence and absence of control methods. <i>Poultry Science</i> , 2022, 101, 101746.	1.5	18
51	Nutrition and Behaviour Group Symposium on "Measuring nutrient intake"™ Measuring food intake in farm and laboratory animals. <i>Proceedings of the Nutrition Society</i> , 1998, 57, 313-319.	0.4	17
52	Which is the best phenotypic trait for use in a targeted selective treatment strategy for growing lambs in temperate climates?. <i>Veterinary Parasitology</i> , 2016, 226, 174-188.	0.7	17
53	How do pigs deal with dietary phosphorus deficiency?. <i>British Journal of Nutrition</i> , 2020, 124, 256-272.	1.2	17
54	Sows in mid parity are best foster mothers for the pre- and post-weaning performance of both light and heavy piglets1. <i>Journal of Animal Science</i> , 2019, 97, 1656-1670.	0.2	16

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55	How many pigs within a group need to be sick to lead to a diagnostic change in the group's behavior?1. <i>Journal of Animal Science</i> , 2019, 97, 1956-1966.	0.2	15
56	A method to estimate the environmental impacts from genetic change in pig production systems. <i>International Journal of Life Cycle Assessment</i> , 2020, 25, 523-537.	2.2	15
57	Cost-effectiveness of environmental impact abatement measures in a European pig production system. <i>Agricultural Systems</i> , 2020, 182, 102843.	3.2	15
58	Modelling the short- and long-term impacts of drenching frequency and targeted selective treatment on the performance of grazing lambs and the emergence of anthelmintic resistance. <i>Parasitology</i> , 2013, 140, 780-791.	0.7	14
59	Weaning age and post-weaning nursery feeding regime are important in improving the performance of lightweight pigs. <i>Journal of Animal Science</i> , 2019, 97, 4834-4844.	0.2	14
60	Freedom to lie: How farrowing environment affects sow lying behaviour assessment using inertial sensors. <i>Computers and Electronics in Agriculture</i> , 2019, 157, 549-557.	3.7	14
61	A simulation model to investigate interactions between first season grazing calves and <i>Ostertagia ostertagi</i> . <i>Veterinary Parasitology</i> , 2016, 226, 198-209.	0.7	13
62	Familiarity with and uptake of alternative methods to control sheep gastro-intestinal parasites on farms in England. <i>Veterinary Parasitology</i> , 2016, 221, 1-8.	0.7	11
63	Harnessing longitudinal information to identify genetic variation in tolerance of pigs to Porcine Reproductive and Respiratory Syndrome virus infection. <i>Genetics Selection Evolution</i> , 2018, 50, 50.	1.2	11
64	Dietary vitamin D improves performance and bone mineralisation, but increases parasite replication and compromises gut health in <i>Eimeria</i> -infected broilers. <i>British Journal of Nutrition</i> , 2019, 122, 676-688.	1.2	11
65	The effect of consumption of foods that differ in energy density and/or sodium bicarbonate supplementation on subsequent diet selection in sheep. <i>British Journal of Nutrition</i> , 2002, 88, 81-90.	1.2	10
66	Do not neglect calcium: a systematic review and meta-analysis (meta-regression) of its digestibility and utilisation in growing and finishing pigs. <i>British Journal of Nutrition</i> , 2018, 119, 1207-1219.	1.2	10
67	A stochastic model to investigate the effects of control strategies on calves exposed to <i>Ostertagia ostertagi</i> . <i>Parasitology</i> , 2016, 143, 1755-1772.	0.7	9
68	Combining alternative processing methods for European soybeans to be used in broiler diets. <i>Animal Feed Science and Technology</i> , 2019, 253, 45-55.	1.1	9
69	Automated Classification for Visual-Only Postmortem Inspection of Porcine Pathology. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020, 17, 1005-1016.	3.4	9
70	Comparing the environmental impacts of UK turkey production systems using analytical error propagation in uncertainty analysis. <i>Journal of Cleaner Production</i> , 2016, 112, 141-148.	4.6	8
71	Description, evaluation, and validation of the Teagasc Pig Production Model1. <i>Journal of Animal Science</i> , 2019, 97, 2803-2821.	0.2	8
72	Changes in the environmental impacts of pig production systems in Great Britain over the last 18 years. <i>Agricultural Systems</i> , 2021, 189, 103063.	3.2	8

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73	Starving for nutrients: anorexia during infection with parasites in broilers is affected by diet composition. <i>Poultry Science</i> , 2022, 101, 101535.	1.5	8
74	Environmental and economic consequences of pig-cooling strategies implemented in a European pig-fattening unit. <i>Journal of Cleaner Production</i> , 2021, 290, 125784.	4.6	7
75	Biosecurity levels of pig fattening farms from four EU countries and links with the farm characteristics. <i>Livestock Science</i> , 2020, 237, 104037.	0.6	7
76	Bayesian, Likelihood-Free Modelling of Phenotypic Plasticity and Variability in Individuals and Populations. <i>Frontiers in Genetics</i> , 2019, 10, 727.	1.1	6
77	A systematic literature mapping and meta-analysis of animal-based traits as indicators of production diseases in pigs. <i>Animal</i> , 2019, 13, 1508-1518.	1.3	6
78	Diagnosis of sub-clinical coccidiosis in fast growing broiler chickens by MicroRNA profiling. <i>Genomics</i> , 2020, 112, 3218-3225.	1.3	6
79	What are the limits to feed intake of broilers on bulky feeds?. <i>Poultry Science</i> , 2021, 100, 100825.	1.5	6
80	Farm characteristics affecting antibiotic consumption in pig farms in England. <i>Porcine Health Management</i> , 2022, 8, 7.	0.9	6
81	Modelling the impacts of pasture contamination and stocking rate for the development of targeted selective treatment strategies for <i>Ostertagia ostertagi</i> infection in calves. <i>Veterinary Parasitology</i> , 2017, 238, 82-86.	0.7	5
82	The genetic basis of novel water utilisation and drinking behaviour traits and their relationship with biological performance in turkeys. <i>Genetics Selection Evolution</i> , 2017, 49, 72.	1.2	5
83	Does the study of feeding behaviour benefit from a teleonomic framework?. <i>Nutrition Research Reviews</i> , 1998, 11, 223-229.	2.1	4
84	Multi-part segmentation for porcine offal inspection with auto-context and adaptive atlases. <i>Pattern Recognition Letters</i> , 2018, 112, 290-296.	2.6	4
85	Differential immune response to <i>Eimeria maxima</i> infection in fast- and slow-growing broiler genotypes. <i>Parasite Immunology</i> , 2019, 41, e12660.	0.7	4
86	Accounting for spatial variability in life cycle cost-effectiveness assessments of environmental impact abatement measures. <i>International Journal of Life Cycle Assessment</i> , 2021, 26, 1236-1253.	2.2	4
87	Quantifying the Interrelationship between Livestock Infections and Climate Change: Response to Ezenwa et al.. <i>Trends in Ecology and Evolution</i> , 2021, 36, 576-577.	4.2	4
88	Differential gene response to coccidiosis in modern fast growing and slow growing broiler genotypes. <i>Veterinary Parasitology</i> , 2019, 268, 1-8.	0.7	3
89	Bayesian comparison of models for precision feeding and management in growing-finishing pigs. <i>Biosystems Engineering</i> , 2021, 211, 205-218.	1.9	3
90	Weighted atlas auto-context with application to multiple organ segmentation. , 2016, , .		2

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91	Vitamin D3, 25-Hydroxyvitamin D3, and Food Fortification. <i>Journal of Nutrition</i> , 2018, 148, 664-665.	1.3	2
92	Towards the prediction of feed intake capacity of modern broilers on bulky feeds. <i>Poultry Science</i> , 2021, 100, 101501.	1.5	2
93	Herbivore Physiological State Affects Foraging Trade-Off Decisions between Nutrient Intake and Parasite Avoidance. <i>Ecology</i> , 2001, 82, 1138.	1.5	2
94	Economic feasibility of interventions targeted at decreasing piglet perinatal and pre-weaning mortality across European countries. <i>Porcine Health Management</i> , 2022, 8, .	0.9	2
95	178 A systematic review and meta-analysis of Ca digestibility and utilisation in growing and finishing pigs. <i>Journal of Animal Science</i> , 2019, 97, 101-102.	0.2	0
96	The Influence of Vitamin a on Molecular Bio-mineral Tissue Development in Pigs (P02-012-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz029.P02-012-19.	0.1	0
97	PSIV-15 Development of a modelling framework to account for P kinetics in growing and finishing pigs. <i>Journal of Animal Science</i> , 2019, 97, 186-187.	0.2	0
98	Bacterial diseases in pigs and poultry: Occurrence, epidemiology, and biosecurity measures. , 2021, , 25-51.		0
99	A Novel Estimation of Unobserved Pig Growth Traits for the Purposes of Precision Feeding Methods. <i>Frontiers in Veterinary Science</i> , 2021, 8, 689206.	0.9	0
100	Quantifying the contribution of livestock health issues to the environmental impact of their production systems. <i>Burleigh Dodds Series in Agricultural Science</i> , 2021, , 81-114.	0.1	0
101	Mastitis and animal husbandry “ high-throughput sequencing as a support tool. <i>Access Microbiology</i> , 2019, 1, .	0.2	0
102	Deep Learning Pose Estimation for Multi-Cattle Lameness Detection. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0