

# Elijah G Kiarie

## List of Publications by Year in descending order

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97  
papers

2,438  
citations

218677  
26  
h-index

233421  
45  
g-index

98  
all docs

98  
docs citations

98  
times ranked

1834  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of added feed enzymes in promoting gut health in swine and poultry. Nutrition Research Reviews, 2013, 26, 71-88.	4.1	239
2	Growth performance, nutrient utilization, and digesta characteristics in broiler chickens fed corn or wheat diets without or with supplemental xylanase. Poultry Science, 2014, 93, 1186-1196.	3.4	164
3	Impact of combined Î²-glucanase and xylanase enzymes on growth performance, nutrients utilization and gut microbiota in broiler chickens fed corn or wheat-based diets. Poultry Science, 2016, 95, 528-540.	3.4	105
4	Energy and amino acid utilization in expeller-extracted canola meal fed to growing pigs <sup>1</sup> . Journal of Animal Science, 2010, 88, 1433-1441.	0.5	102
5	Growth performance, gastrointestinal microbial activity, and nutrient digestibility in early-weaned pigs fed diets containing flaxseed and carbohydrase enzyme <sup>1,2</sup> . Journal of Animal Science, 2007, 85, 2982-2993.	0.5	100
6	Weaned pig responses to Escherichia coli K88 oral challenge when receiving a lysozyme supplement <sup>1,2</sup> . Journal of Animal Science, 2012, 90, 252-260.	0.5	89
7	A transdisciplinary perspective on the links between malaria and agroecosystems in Kenya. Acta Tropica, 2004, 89, 171-186.	2.0	86
8	Growth performance and gastrointestinal microbial ecology responses of piglets receiving Saccharomyces cerevisiae fermentation products after an oral challenge with Escherichia coli (K88) <sup>1</sup> . Journal of Animal Science, 2011, 89, 1062-1078.	0.5	80
9	Role of Feed Processing on Gut Health and Function in Pigs and Poultry: Conundrum of Optimal Particle Size and Hydrothermal Regimens. Frontiers in Veterinary Science, 2019, 6, 19.	2.2	72
10	Effect of supplementing direct-fed microbials on broiler performance, nutrient digestibilities, and immune responses. Poultry Science, 2014, 93, 625-635.	3.4	70
11	Metabolizable energy and standardized ileal digestible amino acid contents of expeller-extracted canola meal fed to broiler chicks. Poultry Science, 2010, 89, 1182-1189.	3.4	61
12	Egg production and quality responses of adding up to 7.5% defatted black soldier fly larvae meal in a corn-soybean meal diet fed to Shaver White Leghorns from wk 19 to 27 of age. Poultry Science, 2018, 97, 2829-2835.	3.4	59
13	Comparative efficacy of xylanases on growth performance and digestibility in growing pigs fed wheat and wheat bran- or corn and corn DDGS-based diets supplemented with phytase. Animal Feed Science and Technology, 2015, 209, 230-239.	2.2	52
14	Growth performance, organ weights, and blood parameters of broilers fed diets containing expeller-extracted canola meal. Poultry Science, 2011, 90, 2520-2527.	3.4	51
15	Growth performance and gastrointestinal responses of broiler chickens fed corn-soybean meal diet without or with exogenous epidermal growth factor upon challenge with Eimeria. Poultry Science, 2017, 96, 3676-3686.	3.4	47
16	Amino acid and fiber digestibility, intestinal bacterial profile, and enzyme activity in growing pigs fed dried distillers grains with solubles-based diets <sup>12</sup> . Journal of Animal Science, 2010, 88, 3304-3312.	0.5	43
17	Effects of a multi-strain Bacillus species-based direct-fed microbial on growth performance, nutrient digestibility, blood profile, and gut health in nursery pigs fed corn-soybean meal-based diets <sup>1</sup> . Journal of Animal Science, 2015, 93, 4336-4342.	0.5	43
18	<i>Bacillus subtilis</i> Strain DSM 29784 Modulates the Cecal Microbiome, Concentration of Short-Chain Fatty Acids, and Apparent Retention of Dietary Components in Shaver White Chickens during Grower, Developer, and Laying Phases. Applied and Environmental Microbiology, 2019, 85, .	3.1	43

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19	Impact of xylanases on gut microbiota of growing pigs fed corn- or wheat-based diets. <i>Animal Nutrition</i> , 2018, 4, 339-350.	5.1	41
20	Utility of Feed Enzymes and Yeast Derivatives in Ameliorating Deleterious Effects of Coccidiosis on Intestinal Health and Function in Broiler Chickens. <i>Frontiers in Veterinary Science</i> , 2019, 6, 473.	2.2	36
21	Standardized ileal amino acid digestibility in dry-extruded expelled soybean meal, extruded canola seed-pea, feather meal, and poultry by-product meal for broiler chickens. <i>Poultry Science</i> , 2010, 89, 2626-2633.	3.4	33
22	Nutritional impact of mycotoxins in food animal production and strategies for mitigation. <i>Journal of Animal Science and Biotechnology</i> , 2022, 13, .	5.3	32
23	Effect of supplementing a fibrous diet with a xylanase and $\beta$ -glucanase blend on growth performance, intestinal glucose uptake, and transport-associated gene expression in growing pigs <sup>1</sup> . <i>Journal of Animal Science</i> , 2015, 93, 3483-3493.	0.5	31
24	Dietary supplementation with flaxseed meal and oat hulls modulates intestinal histomorphometric characteristics, digesta- and mucosa-associated microbiota in pigs. <i>Scientific Reports</i> , 2018, 8, 5880.	3.3	30
25	Effect of dietary supplementation of <i>Bacillus subtilis</i> DSM29784 on hen performance, egg quality indices, and apparent retention of dietary components in laying hens from 19 to 48 weeks of age. <i>Poultry Science</i> , 2019, 98, 5622-5635.	3.4	30
26	Nonstarch Polysaccharide Hydrolysis Products of Soybean and Canola Meal Protect against Enterotoxigenic <i>Escherichia coli</i> in Piglets <sup>3</sup> . <i>Journal of Nutrition</i> , 2008, 138, 502-508.	2.9	29
27	The effect of alternative feeding strategies for broiler breeder pullets: 1. Welfare and performance during rearing. <i>Poultry Science</i> , 2019, 98, 3377-3390.	3.4	28
28	Growth performance and gastrointestinal responses in heavy Tom turkeys fed antibiotic free cornâsoybean meal diets supplemented with multiple doses of a single strain <i>Bacillus subtilis</i> probiotic (DSM29784). <i>Poultry Science</i> , 2019, 98, 5541-5550.	3.4	26
29	Complete replacement of soybean meal with defatted black soldier fly larvae meal in Shaver White hens feeding program (28â43Åwks of age): impact on egg production, egg quality, organ weight, and apparent retention of components. <i>Poultry Science</i> , 2020, 99, 959-965.	3.4	26
30	Comparative efficacy of antibiotic growth promoter and benzoic acid on growth performance, nutrient utilization, and indices of gut health in nursery pigs fed cornâsoybean meal diet. <i>Canadian Journal of Animal Science</i> , 2018, 98, 868-874.	1.5	25
31	The effects of feeding yeast bioactives to broiler breeders and/or their offspring on growth performance, gut development, and immune function in broiler chickens challenged with <i>Eimeria</i> . <i>Poultry Science</i> , 2019, 98, 6411-6421.	3.4	25
32	In pursuit of a better broiler: carcass traits and muscle myopathies in conventional and slower-growing strains of broiler chickens. <i>Poultry Science</i> , 2021, 100, 101309.	3.4	25
33	In pursuit of a better broiler: growth, efficiency, and mortality of 16 strains of broiler chickens. <i>Poultry Science</i> , 2021, 100, 100955.	3.4	22
34	Influence of Feeding Omega-3 Polyunsaturated Fatty Acids to Broiler Breeders on Indices of Immunocompetence, Gastrointestinal, and Skeletal Development in Broiler Chickens. <i>Frontiers in Veterinary Science</i> , 2021, 8, 653152.	2.2	22
35	Digestibility of amino acids, energy, and minerals in roasted full-fat soybean and expelled-extruded soybean meal fed to growing pigs without or with multienzyme supplement containing fiber-degrading enzymes, protease, and phytase. <i>Journal of Animal Science</i> , 2020, 98, .	0.5	20
36	Significance of single $\beta$ -mannanase supplementation on performance and energy utilization in broiler chickens, laying hens, turkeys, sows, and nursery-finish pigs: a meta-analysis and systematic review. <i>Translational Animal Science</i> , 2021, 5, txab160.	1.1	19

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37	Effects of pre-lay dietary calcium (2.5 vs. 4.0%) and pullet strain (Lohmann Brown vs. Selected Leghorn) on egg production and quality. <i>Poultry Science</i> , 2019, 98, 4919-4928.	1.0	14
38	Egg production and quality responses to increasing isoleucine supplementation in Shaver white hens fed a low crude protein corn-soybean meal diet fortified with synthetic amino acids between 20 and 46 weeks of age. <i>Poultry Science</i> , 2020, 99, 1444-1453.	3.4	17
39	Mandated restrictions on the use of medically important antibiotics in broiler chicken production in Canada: implications, emerging challenges, and opportunities for bolstering gastrointestinal function and health – a review. <i>Canadian Journal of Animal Science</i> , 2021, 101, 602-629.	1.5	17
40	Nucleotide-rich yeast extract fed to broiler chickens challenged with <i>Eimeria</i> : impact on growth performance, jejunal histomorphology, immune system, and apparent retention of dietary components and caloric efficiency. <i>Poultry Science</i> , 2019, 98, 4375-4383.	3.4	16
41	Enriching ISA brown and Shaver white breeder diets with sources of n-3 polyunsaturated fatty acids increased embryonic utilization of docosahexaenoic acid. <i>Poultry Science</i> , 2020, 99, 1038-1051.	3.4	16
42	Nutrient and fiber utilization responses of supplemental xylanase in broiler chickens fed wheat based diets are independent of the adaptation period to test diets. <i>Poultry Science</i> , 2017, 96, 3239-3245.	3.4	15
43	A novel <i>Bacillus</i> sp. with rapid growth property and high enzyme activity that allows efficient fermentation of soybean meal for improving digestibility in growing pigs. <i>Journal of Applied Microbiology</i> , 2022, 133, 3-17.	3.1	15
44	Impact of feeding microalgae ( <i>Aurantiochytrium limacinum</i> ) and co-extruded mixture of full-fat flaxseed as sources of n-3 fatty acids to ISA brown and Shaver white breeders and progeny on pullet skeletal attributes at hatch through to 18 weeks of age. <i>Poultry Science</i> , 2020, 99, 2087-2099.	3.4	14
45	Bone and eggshell quality throughout an extended laying cycle in three strains of layers spanning 50 years of selection. <i>Poultry Science</i> , 2022, 101, 101672.	3.4	14
46	Growth performance, gastrointestinal weight, microbial metabolites and apparent retention of components in broiler chickens fed up to 11% rice bran in a corn-soybean meal diet without or with a multi-enzyme supplement. <i>Animal Nutrition</i> , 2019, 5, 41-48.	5.1	13
47	Research Note: Comparative gastrointestinal, tibia, and plasma attributes in 48-day-old fast- and slow-growing broiler chicken strains. <i>Poultry Science</i> , 2020, 99, 3086-3091.	3.4	13
48	Growth performance, breast yield, gastrointestinal ecology and plasma biochemical profile in broiler chickens fed multiple doses of a blend of red, brown and green seaweeds. <i>British Poultry Science</i> , 2020, 61, 590-598.	1.7	12
49	Growth performance, gastrointestinal and digestibility responses in growing pigs when fed corn-soybean meal-based diets with corn DDGS treated with fiber degrading enzymes with or without liquid fermentation. <i>Journal of Animal Science</i> , 2018, 96, 5188-5197.	0.5	11
50	Impact of fiber on growth, plasma, gastrointestinal and excreta attributes in broiler chickens and turkey poults fed corn- or wheat-based diets with or without multienzyme supplement. <i>Poultry Science</i> , 2021, 100, 101219.	3.4	11
51	Effect of products derived from hydrolysis of wheat and flaxseed non starch polysaccharides by carbohydrase enzymes on net absorption in enterotoxigenic <i>Escherichia coli</i> (K88) challenged piglet jejunal segments. <i>Animal Science Journal</i> , 2010, 81, 63-71.	1.4	10
52	Impact of feeding modified soy protein concentrate in the starter phase on growth performance and gastrointestinal responses in broiler chickens through to day 42 of age. <i>Poultry Science</i> , 2021, 100, 101147.	3.4	10
53	Production and metabolic consequences of high-energy and low-crude-protein diet fed to 49-wk-old Shaver white leghorn without or with top-dressed organic selenium. <i>Canadian Journal of Animal Science</i> , 2019, 99, 848-857.	1.5	9
54	Interactive effects of dietary fibre and lipid types modulate gastrointestinal flows and apparent digestibility of fatty acids in growing pigs. <i>British Journal of Nutrition</i> , 2019, 121, 469-480.	2.3	9

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55	Flaxseed meal and oat hulls supplementation: impact on dietary fiber digestibility, and flows of fatty acids and bile acids in growing pigs <sup>1</sup> . Journal of Animal Science, 2019, 97, 291-301.	0.5	9
56	n-3 fatty acids fed to ISA brown and Shaver white breeders and their female progeny during rearing: Impact on egg production, eggshell, and select bone attributes from 18 to 42 weeks of age. Poultry Science, 2020, 99, 3959-3970.	3.4	9
57	Flaxseed meal and oat hulls supplementation: impact on predicted production and absorption of volatile fatty acids and energy from hindgut fermentation in growing pigs <sup>1</sup> . Journal of Animal Science, 2019, 97, 302-314.	0.5	8
58	Standardized ileal digestibility of amino acids and apparent metabolizable energy in corn and soybean meal for organic broiler chicken production in Ontario. Canadian Journal of Animal Science, 2020, 100, 447-454.	1.5	8
59	Effects of feeding broiler breeder hens a coextruded full-fat flaxseed and pulses mixture without or with multienzyme supplement. Poultry Science, 2020, 99, 2616-2623.	3.4	8
60	Comparative efficacy of commercially available deoxynivalenol detoxifying feed additives on growth performance, total tract digestibility of components, and physiological responses in nursery pigs fed diets formulated with naturally contaminated corn <sup>1</sup> . Translational Animal Science, 2021, 5, txab050.	1.1	8
61	Nutritional and metabolic implications of replacing cornstarch with D-xylose in broiler chickens fed corn and soybean meal-based diet. Poultry Science, 2017, 96, 388-396.	3.4	7
62	Nutritive value of corn distiller's dried grains with solubles steeped without or with exogenous feed enzymes for 24 h and fed to growing pigs. Journal of Animal Science, 2018, 96, 2352-2360.	0.5	7
63	The effect of alternative feeding strategies during rearing on the behaviour of broiler breeder pullets. Applied Animal Behaviour Science, 2020, 224, 104929.	1.9	7
64	Rearing cage type and dietary limestone particle size: II, effects on egg production, eggshell, and bone quality in Lohmann selected Leghorn-Lite hens. Poultry Science, 2020, 99, 5763-5770.	3.4	7
65	In ovo feeding of epidermal growth factor: embryonic expression of intestinal epidermal growth factor receptor and posthatch growth performance and intestinal development in broiler chickens. Poultry Science, 2020, 99, 5736-5743.	3.4	7
66	Centennial Review: A meta-analysis of the significance of Eimeria infection on apparent ileal amino acid digestibility in broiler chickens. Poultry Science, 2022, 101, 101625.	3.4	7
67	The effect of alternative feeding strategies for broiler breeder pullets: 2. Welfare and performance during lay. Poultry Science, 2019, 98, 6205-6216.	3.4	6
68	Predicting the standardized ileal digestibility of crude protein in feather meal fed to broiler chickens using a pH-stat and a FT-Raman method. Animal Feed Science and Technology, 2020, 261, 114340.	2.2	6
69	The effect of alternative feeding strategies on the feeding motivation of broiler breeder pullets. Animal, 2020, 14, 2150-2158.	3.3	6
70	Rearing cage type and dietary limestone particle size: I, effects on growth, apparent retention of calcium, and long bones attributes in Lohmann selected Leghorn-Lite pullets. Poultry Science, 2020, 99, 4454-4465.	3.4	6
71	Growth performance, organ attributes, nutrient and caloric utilization in broiler chickens differing in growth rates when fed a corn-soybean meal diet with multienzyme supplement containing phytase, protease and fiber degrading enzymes. Poultry Science, 2021, 100, 101362.	3.4	6
72	In pursuit of a better broiler: walking ability and incidence of contact dermatitis in conventional and slower growing strains of broiler chickens. Poultry Science, 2022, 101, 101768.	3.4	6

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73	Growth performance, immune status, gastrointestinal tract ecology, and function in nursery pigs fed enzymatically treated yeast without or with pharmacological levels of zinc. <i>Journal of Animal Science</i> , 2022, 100, .	0.5	6
74	Fiber degrading enzymes increased monosaccharides release and fermentation in corn distillers dried grains with solubles and wheat middlings steeped without or with protease. <i>Translational Animal Science</i> , 2020, 4, txaa153.	1.1	5
75	Research Note: Effects of supplementing cranberry and blueberry pomaces on meat quality and antioxidative capacity in broilers. <i>Poultry Science</i> , 2021, 100, 100900.	3.4	5
76	The Enzymatic Digestion of Pomaces From Some Fruits for Value-Added Feed Applications in Animal Production. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	3.9	5
77	Amino acids and energy digestibility in extruded or roasted full fat soybean fed to broiler chickens without or with multienzyme supplement containing protease, phytase, and fiber degrading enzymes. <i>Poultry Science</i> , 2021, 100, 101511.	3.4	5
78	Comparative impact of conventional and alternative gut health management programs on growth performance and breast meat quality in broiler chickens raised in commercial and research settings. <i>Journal of Applied Poultry Research</i> , 2022, 31, 100228.	1.2	5
79	Growth performance, organ weight, fecal scores, plasma, and ceca digesta microbial metabolites in growing pigs fed spent biomass of <i>Pichia kudriavzevii</i> . <i>Translational Animal Science</i> , 2020, 4, txaa152.	1.1	4
80	Standardized ileal digestibility of amino acids in broiler chickens fed single or mixture of feed ingredients-based diets with or without <i>Eimeria</i> challenge. <i>Poultry Science</i> , 2022, 101, 101839.	3.4	4
81	Effects of early feeding of enzymatically treated yeast on growth performance, organ weights, intestinal histomorphology, and ceca microbial metabolites in broiler chickens subjected to <i>Eimeria</i> challenge. <i>Poultry Science</i> , 2022, 101, 101967.	3.4	4
82	Impact of feeding n-3 fatty acids to layer breeders and their offspring on concentration of antibody titres against infectious bronchitis, and Newcastle diseases and plasma fatty acids in the offspring. <i>British Poultry Science</i> , 2021, 62, 270-277.	1.7	3
83	Cage type and mineral nutrition had independent impact on skeletal development in Lohmann LSL-Lite pullets from hatch to 16 weeks of age. <i>Animal Nutrition</i> , 2021, 7, 631-640.	5.1	3
84	Physical Treatment Reduces Trypsin Inhibitor Activity and Modifies Chemical Composition of Marama Bean ( <i>Tylosema esculentum</i> ). <i>Molecules</i> , 2022, 27, 4451.	3.8	3
85	Dietary D-xylose effects on growth performance, portal nutrient fluxes, and energy expenditure in growing pigs <sup>1</sup> . <i>Journal of Animal Science</i> , 2018, 96, 2310-2319.	0.5	2
86	Body weight, organ development and jejunal histomorphology in broiler breeder pullets fed n-3 fatty acids enriched diets from hatch through to 22 weeks of age. <i>Poultry Science</i> , 2022, 101, 101514.	3.4	2
87	In pursuit of a better broiler: tibial morphology, breaking strength, and ash content in conventional and slower-growing strains of broiler chickens. <i>Poultry Science</i> , 2022, 101, 101755.	3.4	2
88	Efficacy of enhanced <i>Aspergillus niger</i> phytase on growth performance, bone quality, nutrient digestibility and metabolism in nursery pigs fed corn-soybean meal diet low in calcium and digestible phosphorous. <i>Translational Animal Science</i> , 2022, 6, txac020.	1.1	2
89	86 Impact of steeping corn DDGS over 72 hours without or with fiber degrading enzymes and protease alone or in combination on concentration of sugars and organic acids and pH in the liquid medium. <i>Journal of Animal Science</i> , 2019, 97, 49-50.	0.5	1
90	162 The interactions between dietary fiber and lipid sources alter the predicted production and absorption of caecal and colorectal volatile fatty acids in growing pigs. <i>Journal of Animal Science</i> , 2019, 97, 91-91.	0.5	1

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91	The effects of different spacing allowances in the pullet phase on the eggshell and bone quality of hens in the laying phase. Canadian Journal of Animal Science, 2021, 101, 805-808.	1.5	1
92	Effect of Escherichia coli lipopolysaccharide challenge on eggshell, tibia, and keel bone attributes in ISA brown hens exposed to dietary n-3 fatty acids prior to onset of lay. Poultry Science, 2021, 100, 101431.	3.4	1
93	357 Evaluation of growth performance and physiology of nursery pigs fed deoxynivalenol (DON) contaminated feed supplemented with commercial feed additives (CFA). Journal of Animal Science, 2019, 97, 143-144.	0.5	0
94	Effects of feeding ISA brown and Shaver white layer breeders with sources of n-3 fatty acids on hatching egg profiles, apparent embryonic uptake of egg components, and body composition of day-old chicks. Canadian Journal of Animal Science, 2021, 101, 168-176.	1.5	0
95	A Meta-Analysis on the Significance of Dietary Omega-3 Fatty Acids on Bone Development and Quality in Egg- and Meat-Type Chickens. Frontiers in Animal Science, 2022, 3, .	1.9	0
96	Standardized ileal digestible amino acids and digestible energy contents in two modified soy protein concentrates and soybean meal fed to growing pigs. Translational Animal Science, 2022, 6, .	1.1	0
97	Comparative impact of conventional and alternative gut health management programs on gastrointestinal responses in broiler chickens raised in commercial and research settings. Journal of Applied Poultry Research, 2022, , 100282.	1.2	0