

# Aaron J Cowieson

## List of Publications by Year in descending order

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125  
papers

5,544  
citations

94269

37  
h-index

88477

70  
g-index

125  
all docs

125  
docs citations

125  
times ranked

2656  
citing authors

#	ARTICLE	IF	CITATIONS
1	Consequences of calcium interactions with phytate and phytase for poultry and pigs. <i>Livestock Science</i> , 2009, 124, 126-141.	0.6	340
2	The effects of phytase and phytic acid on the loss of endogenous amino acids and minerals from broiler chickens. <i>British Poultry Science</i> , 2004, 45, 101-108.	0.8	291
3	Gastrointestinal functionality in animal nutrition and health: New opportunities for sustainable animal production. <i>Animal Feed Science and Technology</i> , 2017, 234, 88-100.	1.1	232
4	Exogenous enzymes and their effects on intestinal microbiology. <i>Animal Feed Science and Technology</i> , 2012, 173, 76-85.	1.1	202
5	Carbohydrases, protease, and phytase have an additive beneficial effect in nutritionally marginal diets for broiler chicks. <i>Poultry Science</i> , 2005, 84, 1860-1867.	1.5	190
6	Factors that affect the nutritional value of maize for broilers. <i>Animal Feed Science and Technology</i> , 2005, 119, 293-305.	1.1	185
7	Protein-phytate interactions in pig and poultry nutrition: a reappraisal. <i>Nutrition Research Reviews</i> , 2012, 25, 1-17.	2.1	185
8	Age-Related Influence of a Cocktail of Xylanase, Amylase, and Protease or Phytase Individually or in Combination in Broilers. <i>Poultry Science</i> , 2007, 86, 77-86.	1.5	175
9	Super-dosing effects of phytase in poultry and other monogastrics. <i>World's Poultry Science Journal</i> , 2011, 67, 225-236.	1.4	157
10	Effect of exogenous enzymes in maize-based diets varying in nutrient density for young broilers: growth performance and digestibility of energy, minerals and amino acids. <i>British Poultry Science</i> , 2008, 49, 37-44.	0.8	153
11	Phytic Acid and Phytase: Implications for Protein Utilization by Poultry. <i>Poultry Science</i> , 2006, 85, 878-885.	1.5	130
12	The effect of phytase and carbohydrase on ileal amino acid digestibility in monogastric diets: complimentary mode of action?. <i>World's Poultry Science Journal</i> , 2009, 65, 609-624.	1.4	128
13	Interactions between xylanase and glucanase in maize-soy-based diets for broilers. <i>British Poultry Science</i> , 2010, 51, 246-257.	0.8	114
14	Supplementation of Corn-Soy-Based Diets with an Eschericia coli-Derived Phytase: Effects on Broiler Chick Performance and the Digestibility of Amino Acids and Metabolizability of Minerals and Energy. <i>Poultry Science</i> , 2006, 85, 1389-1397.	1.5	108
15	Strategic Selection of Exogenous Enzymes for Corn/soy-based Poultry Diets. <i>Journal of Poultry Science</i> , 2010, 47, 1-7.	0.7	100
16	Influence of Dietary Electrolyte Balance and Microbial Phytase on Growth Performance, Nutrient Utilization, and Excreta Quality of Broiler Chickens. <i>Poultry Science</i> , 2008, 87, 677-688.	1.5	98
17	Basal endogenous losses of amino acids in protein nutrition research for swine and poultry. <i>Animal Feed Science and Technology</i> , 2016, 221, 274-283.	1.1	94
18	Phytate and microbial phytase: implications for endogenous nitrogen losses and nutrient availability. <i>World's Poultry Science Journal</i> , 2009, 65, 401-418.	1.4	91

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19	A systematic view on the effect of phytase on ileal amino acid digestibility in broilers. <i>Animal Feed Science and Technology</i> , 2017, 225, 182-194.	1.1	88
20	Toward optimal value creation through the application of exogenous mono-component protease in the diets of non-ruminants. <i>Animal Feed Science and Technology</i> , 2016, 221, 331-340.	1.1	79
21	Effects of Phytate and Phytase on the Performance and Immune Function of Broilers Fed Nutritionally Marginal Diets. <i>Poultry Science</i> , 2008, 87, 1105-1111.	1.5	75
22	The effect of microbial phytase and myo-inositol on performance and blood biochemistry of broiler chickens fed wheat/corn-based diets. <i>Poultry Science</i> , 2013, 92, 2124-2134.	1.5	71
23	Supplementation of diets containing pea meal with exogenous enzymes: Effects on weight gain, feed conversion, nutrient digestibility and gross morphology of the gastrointestinal tract of growing broiler chicks. <i>British Poultry Science</i> , 2003, 44, 427-437.	0.8	63
24	Energy utilization and growth performance of broilers receiving diets supplemented with enzymes containing carbohydrase or phytase activity individually or in combination. <i>British Journal of Nutrition</i> , 2008, 99, 682-690.	1.2	63
25	Prediction of ingredient quality and the effect of a combination of xylanase, amylase, protease and phytase in the diets of broiler chicks. 1. Growth performance and digestible nutrient intake. <i>British Poultry Science</i> , 2006, 47, 477-489.	0.8	58
26	Effects of exogenous xylanase on performance, nutrient digestibility, volatile fatty acid production and digestive tract thermal profiles of broilers fed on wheat- or maize-based diet. <i>British Poultry Science</i> , 2014, 55, 351-359.	0.8	58
27	The effect of conditioning temperature and exogenous xylanase addition on the viscosity of wheat-based diets and the performance of broiler chickens. <i>British Poultry Science</i> , 2005, 46, 717-724.	0.8	55
28	Influence of Dietary Phytic Acid and Source of Microbial Phytase on Ileal Endogenous Amino Acid Flows in Broiler Chickens. <i>Poultry Science</i> , 2008, 87, 2287-2299.	1.5	54
29	Ileal digestibility and endogenous flow of minerals and amino acids: responses to dietary phytic acid in piglets. <i>British Journal of Nutrition</i> , 2009, 102, 428-433.	1.2	54
30	Strategies to enhance the performance of pigs and poultry on sorghum-based diets. <i>Animal Feed Science and Technology</i> , 2013, 181, 1-14.	1.1	51
31	Phytate-free nutrition: A new paradigm in monogastric animal production. <i>Animal Feed Science and Technology</i> , 2016, 222, 180-189.	1.1	51
32	Protease supplementation of sorghum-based broiler diets enhances amino acid digestibility coefficients in four small intestinal sites and accelerates their rates of digestion. <i>Animal Feed Science and Technology</i> , 2013, 183, 175-183.	1.1	50
33	Contribution of exogenous enzymes to potentiate the removal of antibiotic growth promoters in poultry production. <i>Animal Feed Science and Technology</i> , 2019, 250, 81-92.	1.1	50
34	Vitamin D fortification of eggs for human health. <i>Journal of the Science of Food and Agriculture</i> , 2014, 94, 1389-1396.	1.7	49
35	Measurement of true ileal digestibility and total tract retention of phosphorus in corn and canola meal for broiler chickens. <i>Poultry Science</i> , 2014, 93, 412-419.	1.5	44
36	Starch digestibility, energy utilization, and growth performance of broilers fed corn-soybean basal diets supplemented with enzymes. <i>Poultry Science</i> , 2015, 94, 2472-2479.	1.5	41

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37	Dietary protein selection in a free-ranging urban population of common myna birds. <i>Behavioral Ecology</i> , 2016, 27, 219-227.	1.0	40
38	Broiler responses to supplementation of phytase and admixture of carbohydrases and protease in maize and soyabean meal diets with or without maize Distillers' Dried Grain with Solubles. <i>British Poultry Science</i> , 2010, 51, 434-443.	0.8	39
39	Measurement of true ileal phosphorus digestibility in maize and soybean meal for broiler chickens: Comparison of two methodologies. <i>Animal Feed Science and Technology</i> , 2015, 206, 76-86.	1.1	38
40	Dual Effects of Sodium Phytate on the Structural Stability and Solubility of Proteins. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 290-295.	2.4	37
41	A systematic view on the effect of microbial phytase on ileal amino acid digestibility in pigs. <i>Animal Feed Science and Technology</i> , 2017, 231, 138-149.	1.1	37
42	Effects of dietary enzymes on performance and intestinal goblet cell number of broilers exposed to a live coccidia oocyst vaccine. <i>Poultry Science</i> , 2011, 90, 91-98.	1.5	35
43	Influence of age and duration of feeding low-phosphorus diet on phytase efficacy in broiler chickens during the starter phase. <i>Poultry Science</i> , 2019, 98, 2588-2597.	1.5	35
44	Effects of corn source on the relationship between in vitro assays and ileal nutrient digestibility. <i>Poultry Science</i> , 2012, 91, 1908-1914.	1.5	33
45	Effect of calcium source and particle size on the true ileal digestibility and total tract retention of calcium in broiler chickens. <i>Animal Feed Science and Technology</i> , 2017, 224, 39-45.	1.1	33
46	The effect of nutritional status and muscle fiber type on myogenic satellite cell fate and apoptosis. <i>Poultry Science</i> , 2014, 93, 163-173.	1.5	31
47	Effect of dietary nonphytate phosphorus and calcium concentration on calcium appetite of broiler chicks. <i>Poultry Science</i> , 2014, 93, 1695-1703.	1.5	29
48	Extra-phosphoric effects of super dosing phytase on growth performance of pigs is not solely due to release of myo-inositol. <i>Journal of Animal Science</i> , 2019, 97, 3898-3906.	0.2	29
49	Sensitivity of broiler starters to three doses of an enzyme cocktail in maize-based diets. <i>British Poultry Science</i> , 2008, 49, 340-346.	0.8	28
50	Functional patterns of exogenous enzymes in different feed ingredients. <i>World's Poultry Science Journal</i> , 2013, 69, 759-774.	1.4	28
51	Measurement of true ileal calcium digestibility in meat and bone meal for broiler chickens using the direct method. <i>Poultry Science</i> , 2016, 95, 70-76.	1.5	28
52	The impact of age and feeding length on phytase efficacy during the starter phase of broiler chickens. <i>Poultry Science</i> , 2019, 98, 6742-6750.	1.5	28
53	The effect of nutritional status on myogenic satellite cell proliferation and differentiation. <i>Poultry Science</i> , 2013, 92, 2163-2173.	1.5	27
54	Influence of Dietary Calcium Concentration on the Digestion of Nutrients along the Intestinal Tract of Broiler Chickens. <i>Journal of Poultry Science</i> , 2014, 51, 392-401.	0.7	27

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55	The effect of nutritional status on myogenic gene expression of satellite cells derived from different muscle types. <i>Poultry Science</i> , 2014, 93, 2278-2288.	1.5	27
56	Exploratory transcriptomic analysis in muscle tissue of broilers fed a phytase-supplemented diet. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2017, 101, 563-575.	1.0	27
57	Influence of enzyme supplementation of maize-soyabean meal diets on carcass composition, whole-body nutrient accretion and total tract nutrient retention of broilers. <i>British Poultry Science</i> , 2008, 49, 436-445.	0.8	26
58	An isothermal titration calorimetry study of phytate binding to lysozyme. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 127, 1201-1208.	2.0	26
59	Exploiting calcium-specific appetite in poultry nutrition. <i>World's Poultry Science Journal</i> , 2011, 67, 587-598.	1.4	25
60	Apparent ileal digestibility of calcium in limestone for broiler chickens. <i>Animal Feed Science and Technology</i> , 2016, 213, 142-147.	1.1	25
61	Prediction of ingredient quality and the effect of a combination of xylanase, amylase, protease and phytase in the diets of broiler chicks. 2. Energy and nutrient utilisation. <i>British Poultry Science</i> , 2006, 47, 490-500.	0.8	24
62	Influence of white- and red-sorghum varieties and hydrothermal component of steam-pelleting on digestibility coefficients of amino acids and kinetics of amino acids, nitrogen and starch digestion in diets for broiler chickens. <i>Animal Feed Science and Technology</i> , 2013, 186, 53-63.	1.1	24
63	Effects of exogenous xylanase on performance, nutrient digestibility and caecal thermal profiles of broilers given wheat-based diets. <i>British Poultry Science</i> , 2013, 54, 1-9.	0.8	24
64	Influence of chick hatch time and access to feed on broiler muscle development. <i>Poultry Science</i> , 2016, 95, 1433-1448.	1.5	24
65	Measurement of the true ileal calcium digestibility of some feed ingredients for broiler chickens. <i>Animal Feed Science and Technology</i> , 2018, 237, 118-128.	1.1	24
66	Thymidine phosphorylase and dihydropyrimidine dehydrogenase protein expression in colorectal cancer. <i>International Journal of Cancer</i> , 2001, 94, 297-301.	2.3	23
67	Measurement of true ileal phosphorus digestibility in meat and bone meal for broiler chickens. <i>Poultry Science</i> , 2015, 94, 1611-1618.	1.5	23
68	Measurement of true ileal calcium digestibility in meat and bone meal for broiler chickens. <i>Animal Feed Science and Technology</i> , 2015, 206, 100-107.	1.1	22
69	Identifying variation in the nutritional value of corn based on chemical kernel characteristics. <i>World's Poultry Science Journal</i> , 2013, 69, 299-312.	1.4	21
70	Time-series responses of swine plasma metabolites to ingestion of diets containing <i>myo</i> -inositol or phytase. <i>British Journal of Nutrition</i> , 2017, 118, 897-905.	1.2	21
71	Effects of energy, $\alpha$ -amylase, and $\beta$ -xylanase on growth performance of broiler chickens. <i>Animal Feed Science and Technology</i> , 2017, 225, 205-212.	1.1	20
72	Growth performance and amino acid digestibility responses of broiler chickens fed diets containing purified soybean trypsin inhibitor and supplemented with a monocomponent protease. <i>Poultry Science</i> , 2020, 99, 5007-5017.	1.5	20

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73	Phosphorus equivalency of a <i>Citrobracter braakii</i> phytase in broilers. <i>Journal of Applied Poultry Research</i> , 2015, 24, 335-342.	0.6	19
74	Energy and nutrient utilization of broiler chickens fed corn-soybean meal and corn-based diets supplemented with xylanase. <i>Poultry Science</i> , 2016, 95, 1881-1887.	1.5	19
75	Interaction between xylanase and phytase on the digestibility of corn and a corn/soy diet for broiler chickens. <i>Poultry Science</i> , 2017, 96, 1204-1211.	1.5	19
76	Nutritional geometry of calcium and phosphorus nutrition in broiler chicks. The effect of different dietary calcium and phosphorus concentrations and ratios on nutrient digestibility. <i>Animal</i> , 2014, 8, 1080-1088.	1.3	18
77	The effect of a mono-component exogenous protease and graded concentrations of ascorbic acid on the performance, nutrient digestibility and intestinal architecture of broiler chickens. <i>Animal Feed Science and Technology</i> , 2018, 235, 128-137.	1.1	18
78	Starch digestibility and energy utilisation of maize- and wheat-based diets is superior to sorghum-based diets in broiler chickens offered diets supplemented with phytase and xylanase. <i>Animal Feed Science and Technology</i> , 2020, 264, 114475.	1.1	18
79	Exogenous Microbial Amylase in the Diets of Poultry: What do We Know?. <i>Journal of Applied Poultry Research</i> , 2019, 28, 556-565.	0.6	17
80	Trends in feed evaluation for poultry with emphasis on in vitro techniques. <i>Animal Nutrition</i> , 2021, 7, 268-281.	2.1	17
81	Graded inclusions of sodium metabisulphite in sorghum-based diets: I. Reduction of disulphide cross-linkages in vitro and enhancement of energy utilisation and feed conversion efficiency in broiler chickens. <i>Animal Feed Science and Technology</i> , 2014, 190, 59-67.	1.1	16
82	Matrix values for exogenous enzymes and their application in the real world. <i>Journal of Applied Poultry Research</i> , 2020, 29, 15-22.	0.6	16
83	Effect of broiler genetics, age, and gender on performance and blood chemistry. <i>Heliyon</i> , 2020, 6, e04400.	1.4	16
84	Corn drying temperature, particle size, and amylase supplementation influence growth performance, digestive tract development, and nutrient utilization of broilers. <i>Poultry Science</i> , 2020, 99, 5681-5696.	1.5	15
85	Possible role of available phosphorus in potentiating the use of low-protein diets for broiler chicken production. <i>Poultry Science</i> , 2020, 99, 6954-6963.	1.5	15
86	The concentration of strontium and other minerals in animal feed ingredients. <i>Journal of Applied Animal Nutrition</i> , 2013, 2, .	0.3	14
87	An assessment of the influence of macronutrients on growth performance and nutrient utilisation in broiler chickens by nutritional geometry. <i>British Journal of Nutrition</i> , 2016, 116, 2129-2138.	1.2	14
88	Influence of hatch time and access to feed on intramuscular adipose tissue deposition in broilers. <i>Poultry Science</i> , 2016, 95, 1449-1456.	1.5	14
89	Using the precision-feeding bioassay to determine the efficacy of exogenous enzymes – A new perspective. <i>Animal Feed Science and Technology</i> , 2006, 129, 149-158.	1.1	13
90	Increased dietary sodium chloride concentrations reduce endogenous amino acid flow and influence the physiological response to the ingestion of phytic acid by broiler chickens. <i>British Poultry Science</i> , 2011, 52, 613-624.	0.8	12

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91	Preliminary assessment of including a reducing agent (sodium metabisulphite) in all-sorghum™ diets for broiler chickens. <i>Animal Feed Science and Technology</i> , 2013, 186, 81-90.	1.1	12
92	Growth performance, nutrient utilisation and carcass composition respond to dietary protein concentrations in broiler chickens but responses are modified by dietary lipid levels. <i>British Journal of Nutrition</i> , 2017, 118, 250-262.	1.2	12
93	Towards a digestible calcium system for broiler chicken nutrition: A review and recommendations for the future. <i>Animal Feed Science and Technology</i> , 2021, 276, 114930.	1.1	12
94	The effect of phytase and phytic acid on endogenous losses from broiler chickens. <i>British Poultry Science</i> , 2003, 44, 23-24.	0.8	11
95	Interactive effects of vitamin D <sub>3</sub> and strontium on performance, nutrient retention and bone mineral composition in laying hens. <i>Journal of the Science of Food and Agriculture</i> , 2015, 95, 1080-1087.	1.7	11
96	Influence of conditioning temperature on the postpellet recovery and efficacy of 2 microbial phytases for broiler chicks. <i>Journal of Applied Poultry Research</i> , 2013, 22, 308-313.	0.6	10
97	Graded inclusions of sodium metabisulphite in sorghum-based diets: II. Modification of starch pasting properties in vitro and beneficial impacts on starch digestion dynamics in broiler chickens. <i>Animal Feed Science and Technology</i> , 2014, 190, 68-78.	1.1	10
98	Growth phase and dietary $\alpha$ -amylase supplementation effects on nutrient digestibility and feedback enzyme secretion in broiler chickens. <i>Poultry Science</i> , 2020, 99, 6867-6876.	1.5	10
99	Comparative effects of two phytases on growth performance, bone mineralization, nutrient digestibility and phytate-P hydrolysis of broilers. <i>Journal of Applied Poultry Research</i> , 2022, 31, 100247.	0.6	9
100	Contribution of individual broilers to variation in amino acid digestibility in soybean meal and the efficacy of an exogenous monocomponent protease. <i>Poultry Science</i> , 2020, 99, 1075-1083.	1.5	8
101	Effect of coccidial challenge and vaccination on the performance, veterinary postmortem scores, and blood biochemistry of broiler chickens. <i>Poultry Science</i> , 2020, 99, 3831-3840.	1.5	8
102	Exogenous $\alpha$ -amylase improves the digestibility of corn and corn-soybean meal diets for broilers. <i>Poultry Science</i> , 2021, 100, 101019.	1.5	8
103	Balanced nutrient density for broiler chickens using a range of digestible lysine-to-metabolizable energy ratios and nutrient density: Growth performance, nutrient utilisation and apparent metabolizable energy. <i>Animal Nutrition</i> , 2021, 7, 430-439.	2.1	8
104	Influence of conditioning temperatures on amino acid digestibility coefficients at four small intestinal sites and their dynamics with starch and nitrogen digestion in sorghum-based broiler diets. <i>Animal Feed Science and Technology</i> , 2013, 185, 85-93.	1.1	7
105	Toward standardized amino acid matrices for exogenous phytase and protease in corn-soybean meal-based diets for broilers. <i>Poultry Science</i> , 2020, 99, 3196-3206.	1.5	7
106	Latent Anti-nutrients and Unintentional Breeding Consequences in Australian Sorghum bicolor Varieties. <i>Frontiers in Plant Science</i> , 2021, 12, 625260.	1.7	7
107	Contribution of purified soybean trypsin inhibitor and exogenous protease to endogenous amino acid losses and mineral digestibility. <i>Poultry Science</i> , 2021, 100, 101486.	1.5	7
108	The influence of meat-and-bone meal and exogenous phytase on growth performance, bone mineralisation and digestibility coefficients of protein (N), amino acids and starch in broiler chickens. <i>Animal Nutrition</i> , 2016, 2, 86-92.	2.1	6

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109	Efficacy of a Mono-Component Exogenous Protease in the Presence of a High Concentration of Exogenous Phytase on Growth Performance of Broiler Chickens. <i>Journal of Applied Poultry Research</i> , 2019, 28, 638-646.	0.6	6
110	Influence of barley inclusion method and protease supplementation on growth performance, nutrient utilisation, and gastrointestinal tract development in broiler starters. <i>Animal Nutrition</i> , 2022, 8, 61-70.	2.1	6
111	Interactive effect of vitamin D and strontium on performance and bone composition in broiler chickens. <i>Animal Feed Science and Technology</i> , 2015, 205, 107-115.	1.1	5
112	Research Note: The effect of sequential displacement of dietary dextrose with myo-inositol on broiler chicken growth performance, bone characteristics, ileal nutrient digestibility, and total tract nutrient retention. <i>Poultry Science</i> , 2021, 100, 993-997.	1.5	5
113	Influence of Steam-Pelleting Temperatures and Grain Variety of Finely-Ground, Sorghum-Based Broiler Diets on Small Intestinal Starch and Nitrogen Digestion Dynamics in Broiler Chickens. <i>International Journal of Poultry Science</i> , 2014, 13, 308-315.	0.6	5
114	Assessment of postcrumble addition of limestone and calcium-specific appetite in broilers during the starter phase. <i>Poultry Science</i> , 2014, 93, 2578-2591.	1.5	4
115	The influence of the selection of macronutrients coupled with dietary energy density on the performance of broiler chickens. <i>PLoS ONE</i> , 2017, 12, e0185480.	1.1	4
116	Monitoring Phytate Hydrolysis Using Serial Blood Sampling and Feather Myo-Inositol Levels in Broilers. <i>Frontiers in Physiology</i> , 2020, 11, 736.	1.3	4
117	Exogenous $\alpha$ -amylase supplementation reduces the variability of ileal digestible energy in broiler chickens fed complete diets with maize batches of variable protein solubility. <i>Animal Feed Science and Technology</i> , 2020, 268, 114610.	1.1	4
118	The influence of feed ingredients on CP and starch disappearance rate in complex diets for broiler chickens. <i>Poultry Science</i> , 2021, 100, 101068.	1.5	4
119	Effects of protease supplementation and diet type on jejunal and ileal digestibility and total tract metabolisability of nitrogen, starch, and energy in broilers. <i>British Poultry Science</i> , 2022, 63, 386-394.	0.8	3
120	Constraints on the modelling of calcium and phosphorus growth of broilers: a systematic review. <i>World's Poultry Science Journal</i> , 2021, 77, 775-795.	1.4	3
121	Research Note: Delay in sampling influences the profile of phytate in gizzard digesta and ileal digestibility of phosphorus in broilers. <i>Poultry Science</i> , 2020, 99, 5065-5069.	1.5	1
122	Phytase catalysis of dephosphorylation studied using isothermal titration calorimetry and electrospray ionization time-of-flight mass spectroscopy. <i>Analytical Biochemistry</i> , 2020, 606, 113859.	1.1	1
123	Mathematical prediction of ileal energy and protein digestibility in broilers using multivariate data analysis. <i>Poultry Science</i> , 2021, 100, 101106.	1.5	1
124	The geometric framework: An in vivo approach. <i>Journal of Applied Poultry Research</i> , 2014, 23, 295-300.	0.6	0
125	Protease supplementation in maize-based diet influenced net energy and nutrient digestibility in broilers. <i>Journal of Applied Animal Nutrition</i> , 2021, 9, 85-91.	0.3	0