M R Bedford

List of Publications by Year
in descending order

300 papers	11,546 citations	28242 55 h-index	39638 94 g-index
303 all docs	303 docs citations	303 times ranked	4905 citing authors

#	Article	IF	Citations
1	Exogenous enzymes for pigs and poultry. Nutrition Research Reviews, 1998, 11, 91-114.	2.1	410
2	Exogenous enzymes in monogastric nutrition â€" their current value and future benefits. Animal Feed Science and Technology, 2000, 86, 1-13.	1.1	406
3	Increased small intestinal fermentation is partly responsible for the antiâ€nutritive activity of nonâ€starch polysaccharides in chickens. British Poultry Science, 1996, 37, 609-621.	0.8	395
4	Extensive Microbial and Functional Diversity within the Chicken Cecal Microbiome. PLoS ONE, 2014, 9, e91941.	1.1	359
5	Reduction of Intestinal Viscosity through Manipulation of Dietary Rye and Pentosanase Concentration is Effected through Changes in the Carbohydrate Composition of the Intestinal Aqueous Phase and Results in Improved Growth Rate and Food Conversion Efficiency of Broiler Chicks. Journal of Nutrition, 1992, 122, 560-569.	1.3	321
6	The effects of phytase and phytic acid on the loss of endogenous amino acids and minerals from broiler chickens. British Poultry Science, 2004, 45, 101-108.	0.8	291
7	Removal of antibiotic growth promoters from poultry diets: implications and strategies to minimise subsequent problems. World's Poultry Science Journal, 2000, 56, 347-365.	1.4	261
8	Enzyme applications for monogastric feeds: A review. Canadian Journal of Animal Science, 1992, 72, 449-466.	0.7	234
9	The economic impact of acute kidney injury in England. Nephrology Dialysis Transplantation, 2014, 29, 1362-1368.	0.4	224
10	Mechanism of action and potential environmental benefits from the use of feed enzymes. Animal Feed Science and Technology, 1995, 53, 145-155.	1.1	205
11	Effects of a xylanase on individual bird variation, starch digestion throughout the intestine, and ileal and caecal volatile fatty acid production in chickens fed wheat. British Poultry Science, 1999, 40, 419-422.	0.8	205
12	Exogenous enzymes and their effects on intestinal microbiology. Animal Feed Science and Technology, 2012, 173, 76-85.	1.1	202
13	The Effect of Pelleting, Salt, and Pentosanase on the Viscosity of Intestinal Contents and the Performance of Broilers Fed Rye. Poultry Science, 1991, 70, 1571-1577.	1.5	166
14	The use of enzymes in poultry diets. World's Poultry Science Journal, 1996, 52, 61-68.	1.4	166
15	Super-dosing effects of phytase in poultry and other monogastrics. World's Poultry Science Journal, 2011, 67, 225-236.	1.4	157
16	An In Vitro Assay for Prediction of Broiler Intestinal Viscosity and Growth When Fed Rye-Based Diets in the Presence of Exogenous Enzymes. Poultry Science, 1993, 72, 137-143.	1.5	156
17	Percent G+C Profiling Accurately Reveals Diet-Related Differences in the Gastrointestinal Microbial Community of Broiler Chickens. Applied and Environmental Microbiology, 2001, 67, 5656-5667.	1.4	144
18	Phytic Acid and Phytase: Implications for Protein Utilization by Poultry. Poultry Science, 2006, 85, 878-885.	1.5	130

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19	The effect of phytase and carbohydrase on ileal amino acid digestibility in monogastric diets: complimentary mode of action?. World's Poultry Science Journal, 2009, 65, 609-624.	1.4	128
20	The evolution and application of enzymes in the animal feed industry: the role of data interpretation. British Poultry Science, 2018, 59, 486-493.	0.8	115
21	Interactions between xylanase and glucanase in maize-soy-based diets for broilers. British Poultry Science, 2010, 51, 246-257.	0.8	114
22	Influence of limestone and phytase on broiler performance, gastrointestinal pH, and apparent ileal nutrient digestibility. Poultry Science, 2012, 91, 1371-1378.	1.5	114
23	Multicarbohydrase Enzymes for Non-ruminants. Asian-Australasian Journal of Animal Sciences, 2014, 27, 290-301.	2.4	111
24	Efficacy of an evolved Escherichia coli phytase in diets of broiler chicks. Poultry Science, 2005, 84, 248-255.	1.5	109
25	Supplementation of Cornâ€"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. Poultry Science, 2006, 85, 1389-1397.	1.5	108
26	Influence of superdoses of a novel microbial phytase on growth performance, tibia ash, and gizzard phytate and inositol in young broilers. Poultry Science, 2014, 93, 1172-1177.	1.5	107
27	The potential for the improvement of the nutritive value of soya-bean meal by different proteases in broiler chicks and broiler cockerels. British Poultry Science, 2002, 43, 70-77.	0.8	104
28	Phytate and microbial phytase: implications for endogenous nitrogen losses and nutrient availability. World's Poultry Science Journal, 2009, 65, 401-418.	1.4	91
29	Immune responses to dietary Î²-glucan in broiler chicks during an Eimeria challenge. Poultry Science, 2010, 89, 2597-2607.	1.5	89
30	Effectiveness of exogenous microbial phytase in improving the bioavailabilities of phosphorus and other nutrients in maize-soya-bean meal diets for broilers. Animal Science, 2001, 73, 289-297.	1.3	87
31	Extra-phosphoric effects of superdoses of a novel microbial phytase. Poultry Science, 2013, 92, 719-725.	1.5	86
32	The Effect of Enzymes on Digestion. Journal of Applied Poultry Research, 1996, 5, 370-378.	0.6	81
33	Effects of yeast (Saccharomyces cerevisiae) and yeast protein concentrate on production performance of broiler chickens exposed to heat stress and challenged with Salmonella enteritidis. Animal Feed Science and Technology, 2011, 168, 61-71.	1.1	79
34	Phytase Modulates Ileal Microbiota and Enhances Growth Performance of the Broiler Chickens. PLoS ONE, 2015, 10, e0119770.	1.1	77
35	Diet influences the colonisation of Campylobacter jejuni and distribution of mucin carbohydrates in the chick intestinal tract. Cellular and Molecular Life Sciences, 2000, 57, 1793-1801.	2.4	76
36	Effect of Various Soybean Meal Sources and Avizyme on Chick Growth Performance and Ileal Digestible Energy. Journal of Applied Poultry Research, 2000, 9, 74-80.	0.6	76

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37	What is the real impact of acute kidney injury?. BMC Nephrology, 2014, 15, 95.	0.8	75
38	Xylo-oligosaccharides display a prebiotic activity when used to supplement wheat or corn-based diets for broilers. Poultry Science, 2018, 97, 4330-4341.	1.5	73
39	Effect of pelleting temperature on the recovery and efficacy of a xylanase enzyme in wheat-based diets. Poultry Science, 1999, 78, 1184-1190.	1.5	70
40	Exogenous dietary xylanase ameliorates viscosity-induced anti-nutritional effects in wheat-based diets for White Pekin ducks (Anas platyrinchos domesticus). British Journal of Nutrition, 2004, 92, 87-94.	1.2	68
41	Deferasirox (<scp>ICL670A</scp>) effectively inhibits oesophageal cancer growth <i>in vitro</i> and <i>in vivo</i>. British Journal of Pharmacology, 2013, 168, 1316-1328.	2.7	68
42	Age and dietary xylanase supplementation affects ileal sugar residues and short chain fatty acid concentration in the ileum and caecum of broiler chickens. Animal Feed Science and Technology, 2017, 234, 29-42.	1.1	68
43	Hydrolysis of phytate to its lower esters can influence the growth performance and nutrient utilization of broilers with regular or super doses of phytase. Poultry Science, 2017, 96, 2243-2253.	1.5	67
44	The Yeast Production System in Which Escherichia coli Phytase is Expressed May Affect Growth Performance, Bone Ash, and Nutrient Use in Broiler Chicks. Poultry Science, 2004, 83, 421-427.	1.5	66
45	The effect of dietary enzyme supplementation of rye- and barley-based diets on digestion and subsequent performance in weanling pigs. Canadian Journal of Animal Science, 1992, 72, 97-105.	0.7	65
46	Performance and immune responses to dietary Î²-glucan in broiler chicks. Poultry Science, 2010, 89, 1924-1933.	1.5	65
47	Evaluation of a highly soluble calcium source and phytase in the diets of broiler chickens. Poultry Science, 2012, 91, 2255-2263.	1.5	64
48	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. British Poultry Science, 2003, 44, 427-437.	0.8	63
49	Interaction Between Ingested Feed and the Digestive System in Poultry. Journal of Applied Poultry Research, 1996, 5, 86-95.	0.6	62
50	Effect of cultivar and environment on the feeding value of Western Canadian wheat and barley samples with and without enzyme supplementation. Canadian Journal of Animal Science, 1998, 78, 649-656.	0.7	62
51	SnoopLigase Catalyzes Peptideâ€"Peptide Locking and Enables Solid-Phase Conjugate Isolation. Journal of the American Chemical Society, 2018, 140, 3008-3018.	6.6	61
52	A genetically engineered Escherichia coli phytase improves nutrient utilization, growth performance, and bone strength of young swine fed diets deficient in available phosphorus1. Journal of Animal Science, 2006, 84, 1147-1158.	0.2	60
53	The use of NSP enzymes in poultry nutrition: myths and realities. World's Poultry Science Journal, 2018, 74, 277-286.	1.4	60
54	Acute Kidney Injury and CKD: Chicken or Egg?. American Journal of Kidney Diseases, 2012, 59, 485-491.	2.1	59

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55	Age-related arabinoxylan hydrolysis and fermentation in the gastrointestinal tract of broilers fed wheat-based diets. Poultry Science, 2019, 98, 4606-4621.	1.5	59
56	Influence of the ratio of essential to non essential amino acids on performance and carcase composition of the broiler chick. British Poultry Science, 1985, 26, 483-491.	0.8	57
57	Efficiency of xylanases from families 10 and 11 in production of xylo -oligosaccharides from wheat arabinoxylans. Carbohydrate Polymers, 2017, 167, 290-296.	5.1	57
58	Interactions between dietary fat type and xylanase supplementation when ryeâ€based diets are fed to broiler chickens 2. Performance, nutrient digestibility and the fatâ€soluble vitamin status of livers. British Poultry Science, 1997, 38, 546-556.	0.8	55
59	Xylanase and xylo- oligosaccharide prebiotic improve the growth performance and concentration of potentially prebiotic oligosaccharides in the ileum of broiler chickens. British Poultry Science, 2020, 61, 70-78.	0.8	55
60	Effects of age and diet on the viscosity of intestinal contents in broiler chicks. British Poultry Science, 1999, 40, 364-370.	0.8	54
61	Chemical composition and the nutritive quality of different wheat cultivars for broiler chickens. British Poultry Science, 2003, 44, 464-475.	0.8	54
62	Removal of the Î±-Galactosides of Sucrose from Soybean Meal Using Either Ethanol Extraction or Exogenous Î±-Galactosidase and Broiler Performance. Poultry Science, 1995, 74, 1484-1494.	1.5	52
63	Enzymes enhance degradation of the fiberâ€"starchâ€"protein matrix of distillers dried grains with solubles as revealed by a porcine in vitro fermentation model and microscopy. Journal of Animal Science, 2015, 93, 1039.	0.2	52
64	Stability of feed enzymes to steam pelleting during feed processing. Animal Feed Science and Technology, 1994, 46, 179-196.	1.1	51
65	Inositol - An effective growth promotor?. World's Poultry Science Journal, 2016, 72, 743-760.	1.4	51
66	Effect of phytase on growth performance, phytate degradation and gene expression of myo- inositol transporters in the small intestine, liver and kidney of 21 day old broilers. Poultry Science, 2018, 97, 1155-1162.	1.5	50
67	A broiler chick bioassay for measuring the feeding value of wheat and barley in complete diets. Poultry Science, 1998, 77, 449-455.	1.5	49
68	Effects of hydrolysed<i>Saccharomyces cerevisiae</i>yeast and yeast cell wall components on live performance, intestinal histo-morphology and humoral immune response of broilers. British Poultry Science, 2011, 52, 694-703.	0.8	48
69	Effects of xylanase supplementation on performance, total volatile fatty acids and selected bacterial population in caeca, metabolic indices and peptide YY concentrations in serum of broiler chickens fed energy restricted maizeâ€"soybean based diets. Animal Feed Science and Technology, 2012, 177, 194-203.	1.1	47
70	Review on docosahexaenoic acid in poultry and swine nutrition: Consequence of enriched animal products on performance and health characteristics. Animal Nutrition, 2019, 5, 11-21.	2.1	46
71	Interactions between dietary fat type and xylanase supplementation when ryeâ€based diets are fed to broiler chickens. 1. physicochemical chyme features. British Poultry Science, 1997, 38, 537-545.	0.8	45
72	Assessment of yeast cell wall as replacements for antibiotic growth promoters in broiler diets: effects on performance, intestinal histoâ€morphology and humoral immune responses. Journal of Animal Physiology and Animal Nutrition, 2012, 96, 275-284.	1.0	45

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73	Effect of wheat content, fat source and enzyme supplementation on diet metabolisability and broiler performance. British Poultry Science, 2001, 42, 625-632.	0.8	44
74	Response of growing pigs to<i>Peniophora lycii</i>- and<i>Escherichia coli</i>-derived phytases or varying ratios of calcium to total phosphorus. Animal Science, 2006, 82, 637-644.	1.3	43
75	Diets Containing Escherichia coli-Derived Phytase on Young Chickens and Turkeys: Effects on Performance, Metabolizable Energy, Endogenous Secretions, and Intestinal Morphology. Poultry Science, 2007, 86, 705-713.	1.5	43
76	Effects of a high dose of microbial phytase and myo-inositol supplementation on growth performance, tibia mineralization, nutrient digestibility, litter moisture content, and foot problems in broiler chickens fed phosphorus-deficient diets. Poultry Science, 2017, 96, 3664-3675.	1.5	43
77	Effects of dietary phytase on performance and nutrient metabolism in chickens. British Poultry Science, 2008, 49, 144-154.	0.8	41
78	Effect of age on the relationship between metabolizable energy and digestible energy for broiler chickens. Poultry Science, 2020, 99, 320-330.	1.5	41
79	The effect of wheat cultivar, growing environment, and enzyme supplementation on digestibility of amino acids by broilers. Canadian Journal of Animal Science, 1998, 78, 335-342.	0.7	40
80	Phytase activity along the digestive tract of the broiler chick: A comparative study of an Escherichia coli-derived and Peniophora lycii phytase. Canadian Journal of Animal Science, 2005, 85, 61-68.	0.7	39
81	Arabinoxylan-oligosaccharides kick-start arabinoxylan digestion in the aging broiler. Poultry Science, 2020, 99, 2555-2565.	1.5	38
82	Effects of supplemental xylanase and xylooligosaccharides on production performance and gut health variables of broiler chickens. Journal of Animal Science and Biotechnology, 2021, 12, 98.	2.1	38
83	Effect of High Phytase Inclusion Rates on Performance of Broilers Fed Diets Not Severely Limited in Available Phosphorus. Asian-Australasian Journal of Animal Sciences, 2013, 26, 227-232.	2.4	37
84	Separate feeding of calcium improves performance and ileal nutrient digestibility in broiler chicks. Animal Production Science, 2014, 54, 172.	0.6	37
85	The effect of dietary calcium inclusion on broiler gastrointestinal pH: Quantification and method optimization. Poultry Science, 2014, 93, 354-363.	1.5	37
86	The Effect of Phytase Enzyme and Level on Nutrient Extraction by Broilers. Poultry Science, 2004, 83, 985-989.	1.5	36
87	Xylanase in diets for growing pigs and broiler chicks. Canadian Journal of Animal Science, 2007, 87, 227-235.	0.7	36
88	Corn expressing an Escherichia coli-derived phytase gene: A proof-of-concept nutritional study in pigs1. Journal of Animal Science, 2007, 85, 1946-1952.	0.2	36
89	The effect of reduced calorie diets, with and without fat, and the use of xylanase on performance characteristics of broilers between 0 and 42 days. Poultry Science, 2012, 91, 1356-1360.	1.5	36
90	Effect of intermittent feeding, structural components and phytase on performance and behaviour of broiler chickens. British Poultry Science, 2013, 54, 222-230.	0.8	36

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91	Mode of Action of Feed Enzymes. Journal of Applied Poultry Research, 1993, 2, 85-92.	0.6	34
92	The Effect of Phytase and Glucanase on the Ileal Digestible Energy of Corn and Soybean Meal Fed to Broilers. Poultry Science, 2007, 86, 2350-2357.	1.5	34
93	Effects of different dietary phytase activities on the concentration of antioxidants in the liver of growing broilers. Journal of Animal Physiology and Animal Nutrition, 2009, 94, 519-26.	1.0	33
94	Effects of corn source on the relationship between in vitro assays and ileal nutrient digestibility. Poultry Science, 2012, 91, 1908-1914.	1.5	33
95	Extra-phosphoric effects of phytase with and without xylanase in corn-soybean meal-based diets fed to broilers. Poultry Science, 2013, 92, 979-991.	1.5	33
96	Evaluation of the effect of different wheats and xylanase supplementation on performance, nutrient and energy utilisation in broiler chicks. Animal Nutrition, 2016, 2, 173-179.	2.1	33
97	Ovodefensins, an Oviduct-Specific Antimicrobial Gene Family, Have Evolved in Birds and Reptiles to Protect the Egg by Both Sequence and Intra-Six-Cysteine Sequence Motif Spacing1. Biology of Reproduction, 2015, 92, 154.	1.2	32
98	Response of broiler chickens to xylanase and butyrate supplementation. Poultry Science, 2019, 98, 3914-3925.	1.5	32
99	Stimbiotic supplementation improved performance and reduced inflammatory response via stimulating fiber fermenting microbiome in weaner pigs housed in a poor sanitary environment and fed an antibiotic-free low zinc oxide diet. PLoS ONE, 2020, 15, e0240264.	1.1	32
100	The effects of supplementary bacterial phytase on dietary energy and total tract amino acid digestibility when fed to young chickens. British Poultry Science, 2011, 52, 245-254.	0.8	31
101	Effect of dietary xylanase on energy, amino acid and mineral metabolism, and egg production and quality in laying hens. British Poultry Science, 2010, 51, 639-647.	0.8	30
102	Xylanase increased the energetic contribution of fiber and improved the oxidative status, gut barrier integrity, and growth performance of growing pigs fed insoluble corn-based fiber. Journal of Animal Science, 2020, 98, .	0.2	30
103	The effects of adding xylanase, vitamin C and copper sulphate to wheat-based diets on broiler performance. British Poultry Science, 2001, 42, 493-500.	0.8	29
104	Nutritional geometry of calcium and phosphorus nutrition in broiler chicks. Growth performance, skeletal health and intake arrays. Animal, 2014, 8, 1071-1079.	1.3	29
105	Effect of dietary nonphytate phosphorus and calcium concentration on calcium appetite of broiler chicks. Poultry Science, 2014, 93, 1695-1703.	1.5	29
106	Intestinal digesta viscosity decreases during coccidial infection in broilers. British Poultry Science, 2000, 41, 459-464.	0.8	28
107	Response of broiler chickens fed wheat-based diets to xylanase supplementation. Poultry Science, 2017, 96, 2776-2785.	1.5	28
108	Recent findings regarding calcium and phytase in poultry nutrition. Animal Production Science, 2017, 57, 2311.	0.6	28

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109	Short-chain fatty acids and ceca microbiota profiles in broilers and turkeys in response to diets supplemented with phytase at varying concentrations, with or without xylanase. Poultry Science, 2020, 99, 2068-2077.	1.5	28
110	THE USE OF ENZYMES TO IMPROVE THE NUTRITIVE VALUE OF POULTRY FEEDS. , 1991, , 95-116.		28
111	Effect of methods of analysis and heat treatment on viscosity of wheat, barley and oats. Animal Feed Science and Technology, 2000, 88, 1-12.	1.1	26
112	Exploiting calcium-specific appetite in poultry nutrition. World's Poultry Science Journal, 2011, 67, 587-598.	1.4	25
113	Iron status of piglets and impact of phytase superdosing on iron physiology: A review. Animal Feed Science and Technology, 2018, 235, 8-14.	1.1	25
114	Microbial interactions in the response to exogenous enzyme utilization.. , 2001, , 299-314.		25
115	Comparison of sample source (excreta or ileal digesta) and age of broiler chick on measurement of apparent digestible energy of wheat and barley. Poultry Science, 1998, 77, 456-463.	1.5	23
116	Broiler performance and<i>in vivo</i>viscosity as influenced by a range of xylanases, varying in ability to effect wheat<i>in vitro</i>viscosity. British Poultry Science, 2009, 50, 716-724.	0.8	23
117	An advanced Escherichia coli phytase improves performance and retention of phosphorus and nitrogen in rainbow trout (Oncorhynchus mykiss) fed low phosphorus plant-based diets, at 11â€¯Â°C and 15â€¯Â°C. Aquaculture, 2020, 516, 734549.	1.7	23
118	Effect of phytase superdosing, myo-inositol and available phosphorus concentrations on performance and bone mineralisation in broilers. Animal Nutrition, 2017, 3, 247-251.	2.1	23
119	A simple model for predicting the response of chicks to dietary enzyme supplementation.. Journal of Animal Science, 1996, 74, 394.	0.2	22
120	Meta-analysis: explicit value of mono-component proteases in monogastric diets. Poultry Science, 2018, 97, 2078-2085.	1.5	22
121	Interactions between phytase and xylanase enzymes in male broiler chicks fed phosphorus-deficient diets from 1 to 18 days of age. Poultry Science, 2013, 92, 1818-1823.	1.5	21
122	Identifying variation in the nutritional value of corn based on chemical kernel characteristics. World's Poultry Science Journal, 2013, 69, 299-312.	1.4	21
123	Exogenous phytase and xylanase exhibit opposing effects on real-time gizzard pH in broiler chickens. British Poultry Science, 2018, 59, 568-578.	0.8	21
124	Influence of meat and bone meal, phytase, and antibiotics on broiler chickens challenged with subclinical necrotic enteritis: 2. intestinal permeability, organ weights, hematology, intestinal morphology, and jejunal gene expression. Poultry Science, 2020, 99, 2581-2594.	1.5	21
125	Evaluation of xylanase and a fermentable xylo-oligosaccharide on performance and ileal digestibility of broiler chickens fed energy and amino acid deficient diets. Animal Nutrition, 2021, 7, 488-495.	2.1	21
126	Xylanase improves growth performance, enhances cecal short-chain fatty acids production, and increases the relative abundance of fiber fermenting cecal microbiota in broilers. Animal Feed Science and Technology, 2021, 277, 114956.	1.1	21

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127	Assessment of potential enhancing effects of a carbohydrase mixture on phytase efficacy in male broiler chicks fed phosphorus-deficient diets from 1 to 18 days of age. Poultry Science, 2013, 92, 192-198.	1.5	20
128	Contribution of intestinal- and cereal-derived phytase activity on phytate degradation in young broilers. Poultry Science, 2015, 94, 1577-1583.	1.5	20
129	The effects of phytase and xylanase supplementation on performance and egg quality in laying hens. British Poultry Science, 2018, 59, 554-561.	0.8	20
130	In vitro versus in situ evaluation of xylan hydrolysis into xylo-oligosaccharides in broiler chicken gastrointestinal tract. Carbohydrate Polymers, 2020, 230, 115645.	5.1	20
131	The role of feed enzymes in maintaining poultry intestinal health. Journal of the Science of Food and Agriculture, 2022, 102, 1759-1770.	1.7	20
132	Previous exposure to dietary phytase reduces the endogenous energy losses from precision-fed chickens. British Poultry Science, 2009, 50, 598-605.	0.8	19
133	Energy utilisation and growth performance of chicken fed diets containing graded levels of supplementary bacterial phytase. British Journal of Nutrition, 2013, 109, 248-253.	1.2	19
134	Do acute elevations of serum creatinine in primary care engender an increased mortality risk?. BMC Nephrology, 2014, 15, 206.	0.8	19
135	Assessing measurements in feed enzyme research: Phytase evaluations in broilers. Journal of Applied Poultry Research, 2016, 25, 305-314.	0.6	19
136	Intermittent lighting improves resilience of broilers during the peak phase of sub-clinical necrotic enteritis infection. Poultry Science, 2018, 97, 438-446.	1.5	19
137	Simultaneous determination of cereal monosaccharides, xylo- and arabinoxylo-oligosaccharides and uronic acids using HPAEC-PAD. Food Chemistry, 2020, 315, 126221.	4.2	19
138	The role of carbohydrases in feedstuff digestion.. , 2002, , 319-336.		19
139	The Influence of Feed Milling, Enzyme Supplementation, and Nutrient Regimen on Broiler Chick Performance. Journal of Applied Poultry Research, 1997, 6, 391-398.	0.6	18
140	Effect of enzyme supplementation of UK-grown lupinus albus on growth performance in broiler chickens. British Poultry Science, 1998, 39, 36-37.	0.8	18
141	Effects of variety, the 1B/1R translocation and xylanase supplementation on nutritive value of wheat for broilers. British Poultry Science, 2001, 42, 638-642.	0.8	18
142	Nutritional geometry of calcium and phosphorus nutrition in broiler chicks. The effect of different dietary calcium and phosphorus concentrations and ratios on nutrient digestibility. Animal, 2014, 8, 1080-1088.	1.3	18
143	Muscle Metabolome Profiles in Woody Breast-(un)Affected Broilers: Effects of Quantum Blue Phytase-Enriched Diet. Frontiers in Veterinary Science, 2020, 7, 458.	0.9	18
144	Effect of phytase on nutrient digestibility and expression of intestinal tight junction and nutrient transporter genes in pigs. Journal of Animal Science, 2020, 98, .	0.2	18

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145	Comparative aspects of phytase and xylanase effects on performance, mineral digestibility, and ileal phytate degradation in broilers and turkeys. Poultry Science, 2020, 99, 1528-1539.	1.5	18
146	Effects of dietary fat type, pentosan level and xylanase supplementation on digestibility of nutrients and metabolizability of energy in male broilers. Archiv Fur Tierernahrung, 1999, 52, 245-261.	0.3	17
147	Effect of a novel microbial phytase on production performance and tibia mineral concentration in broiler chickens given low-calcium diets. British Poultry Science, 2013, 54, 206-215.	0.8	17
148	Quantitative relationships between standardized total tract digestible phosphorus and total calcium intakes and their retention and excretion in growing pigs fed cornâ€“soybean meal diets. Journal of Animal Science, 2015, 93, 2174-2182.	0.2	17
149	Soluble non-starch polysaccharide modulates broiler gastrointestinal tract environment. Poultry Science, 2021, 100, 101183.	1.5	17
150	Xylanase modulates the microbiota of ileal mucosa and digesta of pigs fed corn-based arabinoxylans likely through both a stimbiotic and prebiotic mechanism. PLoS ONE, 2021, 16, e0246144.	1.1	17
151	Supplementing corn or corn-barley diets with an <i>E. coli</i> derived phytase decreases total and soluble P output by weanling and growing pigs. Canadian Journal of Animal Science, 2007, 87, 353-364.	0.7	16
152	Matrix values for exogenous enzymes and their application in the real world. Journal of Applied Poultry Research, 2020, 29, 15-22.	0.6	16
153	The effects of exogenous xylanase supplementation on the <i>in vivo</i> generation of xylooligosaccharides and monosaccharides in broilers fed a wheat-based diet. British Poultry Science, 2020, 61, 471-481.	0.8	16
154	Interactions between dietary fat type and exogenous enzyme supplementation of broiler diets based on maize, wheat, triticale or barley. Journal of Animal and Feed Sciences, 1999, 8, 467-483.	0.4	16
155	Prediction of the performance of broiler chicks from apparent metabolizable energy and protein digestibility values obtained using a broiler chick bioassay. Canadian Journal of Animal Science, 1999, 79, 59-64.	0.7	15
156	Corn expressing an Escherichia coli- derived phytase gene: Residual phytase activity and microstructure of digesta in broiler chicks. Poultry Science, 2009, 88, 1413-1420.	1.5	15
157	Influence of diet, phytase, and incubation time on calcium and phosphorus solubility in the gastric and small intestinal phase of an in vitro digestion assay. Journal of Animal Science, 2012, 90, 3120-3125.	0.2	15
158	Feed endoxylanase type and dose affect arabinoxylan hydrolysis and fermentation in ageing broilers. Animal Nutrition, 2021, 7, 787-800.	2.1	15
159	Phytate and phytase.. , 2010, , 160-205.		15
160	The Foundation of Conducting Feed Enzyme Research and the Challenge of Explaining the Results. Journal of Applied Poultry Research, 2002, 11, 464-470.	0.6	14
161	In vitro evaluation of limestone, dicalcium phosphate, and phytase on calcium and phosphorus solubility of corn and soybean meal. Poultry Science, 2012, 91, 674-682.	1.5	14
162	The effect of supplementary bacterial phytase on dietary metabolisable energy, nutrient retention and endogenous losses in precision fed broiler chickens. Journal of Animal Physiology and Animal Nutrition, 2012, 96, 52-57.	1.0	14

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163	Effect of increasing supplemental phytase concentration in diets fed to Hubbard Ã— Cobb 500 male broilers from 1 to 42 days of age. Journal of Applied Poultry Research, 2014, 23, 705-714.	0.6	14
164	Effect of feeding broilers diets differing in susceptible phytate content. Animal Nutrition, 2016, 2, 33-39.	2.1	14
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