Ruurd T Zijlstra

List of Publications by Year
in descending order

84 papers	3,428 citations	109321 35 h-index	149698 56 g-index
84 all docs	84 docs citations	84 times ranked	2532 citing authors

#	Article	IF	Citations
1	NONRUMINANT NUTRITION SYMPOSIUM: Controlling feed cost by including alternative ingredients into pig diets: A review1,2. Journal of Animal Science, 2014, 92, 1293-1305.	0.5	159
2	Effects of guar gum and cellulose on digesta passage rate, ileal microbial populations, energy and protein digestibility, and performance of grower pigs1,2. Journal of Animal Science, 2006, 84, 843-852.	0.5	149
3	Nutritional value of wheat and corn distillerâ€™s dried grain with solubles: Digestibility and digestible contents of energy, amino acids and phosphorus, nutrient excretion and growth performance of grower-finisher pigs. Canadian Journal of Animal Science, 2007, 87, 103-114.	1.5	138
4	Effect of dietary protein content on ileal amino acid digestibility, growth performance, and formation of microbial metabolites in ileal and cecal digesta of early-weaned pigs1,2. Journal of Animal Science, 2007, 85, 3303-3312.	0.5	130
5	Voluntary feed intake in growing-finishing pigs: A review of the main determining factors and potential approaches for accurate predictions. Canadian Journal of Animal Science, 2004, 84, 549-566.	1.5	125
6	Effects of dietary protein and fermentable fiber on nitrogen excretion patterns and plasma urea in grower pigs. Journal of Animal Science, 2002, 80, 3247.	0.5	117
7	Nonstarch Polysaccharides Modulate Bacterial Microbiota, Pathways for Butyrate Production, and Abundance of Pathogenic Escherichia coli in the Pig Gastrointestinal Tract. Applied and Environmental Microbiology, 2010, 76, 3692-3701.	3.1	116
8	Starch with High Amylose Content and Low In Vitro Digestibility Increases Intestinal Nutrient Flow and Microbial Fermentation and Selectively Promotes Bifidobacteria in Pigs. Journal of Nutrition, 2011, 141, 1273-1280.	2.9	102
9	Metagenomic reconstructions of gut microbial metabolism in weanling pigs. Microbiome, 2019, 7, 48.	11.1	97
10	Nutritional value of wheat for growing pigs: chemical composition and digestible energy content. Canadian Journal of Animal Science, 1999, 79, 187-194.	1.5	94
11	The energy content of barley fed to growing pigs: characterizing the nature of its variability and developing prediction equations for its estimation.. Journal of Animal Science, 1999, 77, 1502.	0.5	92
12	Dietary calcium phosphate content and oat Î²-glucan influence gastrointestinal microbiota, butyrate-producing bacteria and butyrate fermentation in weaned pigs. FEMS Microbiology Ecology, 2011, 75, 402-413.	2.7	92
13	Starch with High Amylose and Low in Vitro Digestibility Increases Short-Chain Fatty Acid Absorption, Reduces Peak Insulin Secretion, and Modulates Incretin Secretion in Pigs. Journal of Nutrition, 2011, 141, 398-405.	2.9	83
14	The nutritional value of expeller-pressed canola meal for grower-finisher pigs1. Journal of Animal Science, 2010, 88, 2073-2083.	0.5	82
15	Effects of xylanase supplementation on the apparent digestibility and digestible content of energy, amino acids, phosphorus, and calcium in wheat and wheat by-products from dry milling fed to grower pigs1,2. Journal of Animal Science, 2008, 86, 3450-3464.	0.5	79
16	Pork as a Source of Omega-3 (n-3) Fatty Acids. Journal of Clinical Medicine, 2015, 4, 1999-2011.	2.4	76
17	In Vitro Starch Digestion Kinetics, Corrected for Estimated Gastric Emptying, Predict Portal Glucose Appearance in Pigs ,. Journal of Nutrition, 2010, 140, 1227-1233.	2.9	73
18	Effect of phytase and xylanase supplementation or particle size on nutrient digestibility of diets containing distillers dried grains with solubles cofermented from wheat and corn in ileal-cannulated grower pigs1. Journal of Animal Science, 2011, 89, 113-123.	0.5	68

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19	Effects of viscosity and fermentability of dietary fibre on nutrient digestibility and digesta characteristics in ileal-cannulated grower pigs. British Journal of Nutrition, 2011, 106, 664-674.	2.3	66
20	Dietary Oat Î²-Glucan Reduces Peak Net Glucose Flux and Insulin Production and Modulates Plasma Incretin in Portal-Vein Catheterized Grower Pigs. Journal of Nutrition, 2010, 140, 1564-1569.	2.9	64
21	High Amylose Starch with Low In Vitro Digestibility Stimulates Hindgut Fermentation and Has a Bifidogenic Effect in Weaned Pigs. Journal of Nutrition, 2015, 145, 2464-2470.	2.9	58
22	Swine convert co-products from food and biofuel industries into animal protein for food. Animal Frontiers, 2013, 3, 48-53.	1.7	54
23	Fermentation of Barley by Using Saccharomyces cerevisiae : Examination of Barley as a Feedstock for Bioethanol Production and Value-Added Products. Applied and Environmental Microbiology, 2009, 75, 1363-1372.	3.1	53
24	Oat Î²-Glucan and Dietary Calcium and Phosphorus Differentially Modify Intestinal Expression of Proinflammatory Cytokines and Monocarboxylate Transporter 1 and Cecal Morphology in Weaned Pigs. Journal of Nutrition, 2012, 142, 668-674.	2.9	53
25	Starch and fiber properties affect their kinetics of digestion and thereby digestive physiology in pigs. Journal of Animal Science, 2012, 90, 49-58.	0.5	53
26	Flaxseed fed pork: nâˆ’3 fatty acid enrichment and contribution to dietary recommendations. Meat Science, 2014, 96, 541-547.	5.5	53
27	Relationships among dietary fiber components and the digestibility of energy, dietary fiber, and amino acids and energy content of nine corn coproducts fed to growing pigs1. Journal of Animal Science, 2014, 92, 4505-4517.	0.5	52
28	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.	0.5	52
29	Feed Fermentation with Reuteran- and Levan-Producing Lactobacillus reuteri Reduces Colonization of Weanling Pigs by Enterotoxigenic Escherichia coli. Applied and Environmental Microbiology, 2015, 81, 5743-5752.	3.1	52
30	In vitro digestibility techniques to predict apparent total tract energy digestibility of wheat in grower pigs12. Journal of Animal Science, 2009, 87, 3620-3629.	0.5	47
31	Feeding co-extruded flaxseed to pigs: Effects of duration and feeding level on growth performance and backfat fatty acid composition of growerâ€“finisher pigs. Meat Science, 2010, 84, 578-584.	5.5	47
32	Resistant starch: Implications of dietary inclusion on gut health and growth in pigs: a review. Journal of Animal Science and Biotechnology, 2021, 12, 124.	5.3	43
33	Digestible phosphorus requirement of grower pigs. Canadian Journal of Animal Science, 2002, 82, 541-549.	1.5	42
34	Processing conditions affect nutrient digestibility of cold-pressed canola cake for grower pigs1. Journal of Animal Science, 2011, 89, 2452-2461.	0.5	40
35	In vitro digestion and fermentation characteristics of canola co-products simulate their digestion in the pig intestine. Animal, 2016, 10, 911-918.	3.3	39
36	Prediction of in vivo apparent total tract energy digestibility of barley in grower pigs using an in vitro digestibility technique1. Journal of Animal Science, 2008, 86, 2619-2626.	0.5	38

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37	Effect of dietary particle size and carbohydrase and/or phytase supplementation on nitrogen and phosphorus excretion of grower pigs. Canadian Journal of Animal Science, 2002, 82, 533-540.	1.5	36
38	Effects of feeding fermented wheat with Lactobacillus reuteri on gut morphology, intestinal fermentation, nutrient digestibility, and growth performance in weaned pigs1. Journal of Animal Science, 2016, 94, 4677-4687.	0.5	34
39	Effect of dietary inclusion of benzoic acid on mineral balance in growing pigs. Livestock Science, 2009, 122, 162-168.	1.6	33
40	Effects of coextrusion of flaxseed and field pea on the digestibility of energy, ether extract, fatty acids, protein, and amino acids in grower-finisher pigs1. Journal of Animal Science, 2008, 86, 2942-2951.	0.5	32
41	Glycemic index of starch affects nitrogen retention in grower pigs1. Journal of Animal Science, 2012, 90, 1233-1241.	0.5	31
42	Technical note: An improved surgical model for the long-term studies of kinetics and quantification of nutrient absorption in swine1,2. Journal of Animal Science, 2009, 87, 2013-2019.	0.5	30
43	Increasing omega-3 levels through dietary co-extruded flaxseed supplementation negatively affects pork palatability. Food Chemistry, 2011, 126, 1716-1723.	8.2	29
44	Nutritive value of cold-pressed camelina cake with or without supplementation of multi-enzyme in broiler chickens. Poultry Science, 2016, 95, 2314-2321.	3.4	27
45	Rapid discrimination of enhanced quality pork by visible and near infrared spectroscopy. Meat Science, 2015, 110, 76-84.	5.5	25
46	Nutrient digestibility of lentil and regular- and low-oligosaccharide, micronized full-fat soybean fed to grower pigs1. Journal of Animal Science, 2014, 92, 229-237.	0.5	24
47	S<scp>hort</scp> C<scp>ommunication</scp>: Near infrared reflectance spectroscopy accurately predicts the digestible energy content of barley for pigs. Canadian Journal of Animal Science, 2011, 91, 301-304.	1.5	23
48	Effects of increasing co-product inclusion and reducing dietary protein on growth performance, carcass characteristics, and jowl fatty acid profile of growingâ€“finishing pigs1. Journal of Animal Science, 2013, 91, 2178-2191.	0.5	22
49	Bacterial fermentation affects net mineral flux in the large intestine of pigs fed diets with viscous and fermentable nonstarch polysaccharides12. Journal of Animal Science, 2010, 88, 3351-3362.	0.5	20
50	Slowly digestible starch influences mRNA abundance of glucose and short-chain fatty acid transporters in the porcine distal intestinal tract1. Journal of Animal Science, 2012, 90, 80-82.	0.5	20
51	Whole-Grain Fiber Composition Influences Site of Nutrient Digestion, Standardized Ileal Digestibility of Amino Acids, and Whole-Body Energy Utilization in Grower Pigs. Journal of Nutrition, 2017, 147, 29-36.	2.9	20
52	Effect of low-phytate barley or phytase supplementation to a barley-soybean meal diet on phosphorus retention and excretion by grower pigs1,2. Journal of Animal Science, 2007, 85, 2941-2948.	0.5	19
53	Protein and starch concentrates of air-classified field pea and zero-tannin faba bean for weaned pigs1. Journal of Animal Science, 2010, 88, 2627-2636.	0.5	15
54	Growth performance, diet nutrient digestibility, and bone mineralization in weaned pigs fed pelleted diets containing thermostable phytase1. Journal of Animal Science, 2013, 91, 745-754.	0.5	15

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55	Resistant Starch Escaped from Ethanol Production: Evidence from Confocal Laser Scanning Microscopy of Distiller's Dried Grains with Solubles (DDGS). Cereal Chemistry, 2014, 91, 130-138.	2.2	15
56	Evaluation of value-added components of dried distillerâ€™s grain with solubles from triticale and wheat. Bioresource Technology, 2011, 102, 6920-6927.	9.6	14
57	Impact of resistant vs. digested starch on starch energy value in the pig gut. Bioactive Carbohydrates and Dietary Fibre, 2018, 15, 12-20.	2.7	14
58	Whole-Grain Starch and Fiber Composition Modifies Ileal Flow of Nutrients and Nutrient Availability in the Hindgut, Shifting Fecal Microbial Profiles in Pigs. Journal of Nutrition, 2017, 147, jn255851.	2.9	13
59	Digestibility of branched and linear Î±-gluco-oligosaccharides in vitro and in ileal-cannulated pigs. Food Research International, 2020, 127, 108726.	6.2	12
60	Toward Precise Nutrient Value of Feed in Growing Pigs: Effect of Meal Size, Frequency and Dietary Fibre on Nutrient Utilisation. Animals, 2021, 11, 2598.	2.3	12
61	Nutrient digestibility of solvent-extracted Brassica napus and Brassica juncea canola meals and their air-classified fractions fed to ileal-cannulated grower pigs1. Journal of Animal Science, 2015, 93, 217-228.	0.5	11
62	Digestibility energy and amino acids of canola meal from two species (Brassica juncea and Brassica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.5	10
63	Reduced Feed Intake, Rather than Increased Energy Losses, Explains Variation in Growth Rates of Normal-Birth-Weight Piglets. Journal of Nutrition, 2018, 148, 1794-1803.	2.9	10
64	Degradation and fermentation characteristics of wheat coproducts from flour milling in the pig intestine studied in vitro1. Journal of Animal Science, 2012, 90, 173-175.	0.5	9
65	Feed preference of weaned pigs fed diets containing soybean meal, Brassica napus canola meal, or Brassica juncea canola meal. Journal of Animal Science, 2018, 96, 600-611.	0.5	9
66	Zero-tannin faba bean as a replacement for soybean meal in diets for starter pigs. Canadian Journal of Animal Science, 2009, 89, 489-492.	1.5	8
67	Nutritional value of full-fat green canola seed fed to growingâ€“finishing pigs1. Journal of Animal Science, 2014, 92, 3449-3459.	0.5	8
68	Nutrient digestibility of soybean products in grower-finisher pigs1. Journal of Animal Science, 2019, 97, 4598-4607.	0.5	8
69	Apparent and true ileal and total tract digestibility of fat in canola press-cake or canola oil and effects of increasing dietary fat on amino acid and energy digestibility in growing pigs1. Journal of Animal Science, 2017, 95, 2593-2604.	0.5	7
70	Carbohydrate level and source have minimal effects on feline energy and macronutrient metabolism. Journal of Animal Science, 2018, 96, 5052-5063.	0.5	6
71	Nutrient digestibility of extruded canola meal in ileal-cannulated growing pigs and effects of its feeding on diet nutrient digestibility and growth performance in weaned pigs. Journal of Animal Science, 2021, 99, .	0.5	6
72	Dry fractionation creates fractions of wheat distillers dried grains and solubles with highly digestible nutrient content for grower pigs1. Journal of Animal Science, 2014, 92, 3416-3425.	0.5	5

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73	Physico-chemical properties of purified starch affect their in vitro fermentation characteristics and are linked to in vivo fermentation characteristics in pigs. Animal Feed Science and Technology, 2019, 253, 74-80.	2.2	4
74	A Novel Approach for a Functional Group to Predict Protein in Undigested Residue and Protein Digestibility by Mid-Infrared Spectroscopy. Applied Spectroscopy, 2013, 67, 1343-1347.	2.2	3
75	Cereal grain composition alters nutrient digestibility and growth performance regardless of protein quality in pigs1. Journal of Animal Science, 2016, 94, 279-282.	0.5	3
76	Hindgut fermentation of starch is greater for pulse grains than cereal grains in growing pigs. Journal of Animal Science, 2021, 99, .	0.5	3
77	Modelling net energy of commercial cat diets. PLoS ONE, 2019, 14, e0218173.	2.5	2
78	Cereal grain fiber composition modifies phosphorus digestibility in grower pigs. Journal of Animal Science, 2022, 100, .	0.5	2
79	Net energy value of canola meal, field pea, and wheat millrun fed to growing-finishing pigs. Journal of Animal Science, 2021, 99, .	0.5	1
80	A noncalibration spectroscopic method to estimate ether extract and fatty acid digestibility of feed and its validation with flaxseed and field pea in pigs1. Journal of Animal Science, 2014, 92, 4531-4539.	0.5	0
81	Could near Infrared Spectra of Ears Be Used to Classify Carcass Composition in Pigs?. NIR News, 2015, 26, 4-6.	0.3	0
82	Binding Fatty Acids into Indigestible Calcium Soap: Removing a Piece of Pie. Journal of Nutrition, 2021, 151, 1053-1054.	2.9	0
83	Effect of feeding acidified or fermented barley using Limosilactobacillus reuteri with or without supplemental phytase on diet nutrient digestibility in growing pigs. Journal of Animal Science, 2021, 99, .	0.5	0
84	Effect of feeding mid- or zero-tannin faba bean cultivars differing in vicine and covicine content on diet nutrient digestibility and growth performance of weaned pigs. Translational Animal Science, 2022, 6, txac049.	1.1	0