

Ruurd T Zijlstra

List of Publications by Year in descending order

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84
papers

3,428
citations

125106

35
h-index

169272

56
g-index

84
all docs

84
docs citations

84
times ranked

2681
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Translational Animal Science</i> , 2022, 6, txac049.	0.4	0
2	Cereal grain fiber composition modifies phosphorus digestibility in grower pigs. <i>Journal of Animal Science</i> , 2022, 100, .	0.2	2
3	Binding Fatty Acids into Indigestible Calcium Soap: Removing a Piece of Pie. <i>Journal of Nutrition</i> , 2021, 151, 1053-1054.	1.3	0
4	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. <i>Journal of Animal Science</i> , 2021, 99, .	0.2	6
5	Effect of feeding acidified or fermented barley using <i>Limosilactobacillus reuteri</i> with or without supplemental phytase on diet nutrient digestibility in growing pigs. <i>Journal of Animal Science</i> , 2021, 99, .	0.2	0
6	Net energy value of canola meal, field pea, and wheat millrun fed to growing-finishing pigs. <i>Journal of Animal Science</i> , 2021, 99, .	0.2	1
7	Toward Precise Nutrient Value of Feed in Growing Pigs: Effect of Meal Size, Frequency and Dietary Fibre on Nutrient Utilisation. <i>Animals</i> , 2021, 11, 2598.	1.0	12
8	Hindgut fermentation of starch is greater for pulse grains than cereal grains in growing pigs. <i>Journal of Animal Science</i> , 2021, 99, .	0.2	3
9	Resistant starch: Implications of dietary inclusion on gut health and growth in pigs: a review. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 124.	2.1	43
10	Digestibility of branched and linear α -gluco-oligosaccharides in vitro and in ileal-cannulated pigs. <i>Food Research International</i> , 2020, 127, 108726.	2.9	12
11	Nutrient digestibility of soybean products in grower-finisher pigs ¹ . <i>Journal of Animal Science</i> , 2019, 97, 4598-4607.	0.2	8
12	Modelling net energy of commercial cat diets. <i>PLoS ONE</i> , 2019, 14, e0218173.	1.1	2
13	Physico-chemical properties of purified starch affect their in vitro fermentation characteristics and are linked to in vivo fermentation characteristics in pigs. <i>Animal Feed Science and Technology</i> , 2019, 253, 74-80.	1.1	4
14	Metagenomic reconstructions of gut microbial metabolism in weanling pigs. <i>Microbiome</i> , 2019, 7, 48.	4.9	97
15	Feed preference of weaned pigs fed diets containing soybean meal, Brassica napus canola meal, or Brassica juncea canola meal. <i>Journal of Animal Science</i> , 2018, 96, 600-611.	0.2	9
16	Impact of resistant vs. digested starch on starch energy value in the pig gut. <i>Bioactive Carbohydrates and Dietary Fibre</i> , 2018, 15, 12-20.	1.5	14
17	Reduced Feed Intake, Rather than Increased Energy Losses, Explains Variation in Growth Rates of Normal-Birth-Weight Piglets. <i>Journal of Nutrition</i> , 2018, 148, 1794-1803.	1.3	10
18	Carbohydrate level and source have minimal effects on feline energy and macronutrient metabolism. <i>Journal of Animal Science</i> , 2018, 96, 5052-5063.	0.2	6

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19	Whole-Grain Starch and Fiber Composition Modifies Ileal Flow of Nutrients and Nutrient Availability in the Hindgut, Shifting Fecal Microbial Profiles in Pigs. <i>Journal of Nutrition</i> , 2017, 147, jn255851.	1.3	13
20	Whole-Grain Fiber Composition Influences Site of Nutrient Digestion, Standardized Ileal Digestibility of Amino Acids, and Whole-Body Energy Utilization in Grower Pigs. <i>Journal of Nutrition</i> , 2017, 147, 29-36.	1.3	20
21	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 pigs ¹ . <i>Journal of Animal Science</i> , 2017, 95, 2593-2604.	0.2	7
22	Cereal grain composition alters nutrient digestibility and growth performance regardless of protein quality in pigs ¹ . <i>Journal of Animal Science</i> , 2016, 94, 279-282.	0.2	3
23	In vitro digestion and fermentation characteristics of canola co-products simulate their digestion in the pig intestine. <i>Animal</i> , 2016, 10, 911-918.	1.3	39
24	Nutritive value of cold-pressed camelina cake with or without supplementation of multi-enzyme in broiler chickens. <i>Poultry Science</i> , 2016, 95, 2314-2321.	1.5	27
25	Effects of feeding fermented wheat with <i>Lactobacillus reuteri</i> on gut morphology, intestinal fermentation, nutrient digestibility, and growth performance in weaned pigs ¹ . <i>Journal of Animal Science</i> , 2016, 94, 4677-4687.	0.2	34
26	Enzymes enhance degradation of the fiber-starch-protein matrix of distillers dried grains with solubles as revealed by a porcine in vitro fermentation model and microscopy. <i>Journal of Animal Science</i> , 2015, 93, 1039.	0.2	52
27	Could near Infrared Spectra of Ears Be Used to Classify Carcass Composition in Pigs?. <i>NIR News</i> , 2015, 26, 4-6.	1.6	0
28	Nutrient digestibility of solvent-extracted <i>Brassica napus</i> and <i>Brassica juncea</i> canola meals and their air-classified fractions fed to ileal-cannulated grower pigs ¹ . <i>Journal of Animal Science</i> , 2015, 93, 217-228.	0.2	11
29	Pork as a Source of Omega-3 (n-3) Fatty Acids. <i>Journal of Clinical Medicine</i> , 2015, 4, 1999-2011.	1.0	76
30	Rapid discrimination of enhanced quality pork by visible and near infrared spectroscopy. <i>Meat Science</i> , 2015, 110, 76-84.	2.7	25
31	Feed Fermentation with Reuteran- and Levan-Producing <i>Lactobacillus reuteri</i> Reduces Colonization of Weanling Pigs by Enterotoxigenic <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 5743-5752.	1.4	52
32	High Amylose Starch with Low In Vitro Digestibility Stimulates Hindgut Fermentation and Has a Bifidogenic Effect in Weaned Pigs. <i>Journal of Nutrition</i> , 2015, 145, 2464-2470.	1.3	58
33	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 pigs ¹ . <i>Journal of Animal Science</i> , 2014, 92, 4505-4517.	0.2	52
34	Nutrient digestibility of lentil and regular- and low-oligosaccharide, micronized full-fat soybean fed to grower pigs ¹ . <i>Journal of Animal Science</i> , 2014, 92, 229-237.	0.2	24
35	Nutritional value of full-fat green canola seed fed to growing-finishing pigs ¹ . <i>Journal of Animal Science</i> , 2014, 92, 3449-3459.	0.2	8
36	A noncalibration spectroscopic method to estimate ether extract and fatty acid digestibility of feed and its validation with flaxseed and field pea in pigs ¹ . <i>Journal of Animal Science</i> , 2014, 92, 4531-4539.	0.2	0

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37	Dry fractionation creates fractions of wheat distillers dried grains and solubles with highly digestible nutrient content for grower pigs ¹ . <i>Journal of Animal Science</i> , 2014, 92, 3416-3425.	0.2	5
38	Resistant Starch Escaped from Ethanol Production: Evidence from Confocal Laser Scanning Microscopy of Distiller's Dried Grains with Solubles (DDGS). <i>Cereal Chemistry</i> , 2014, 91, 130-138.	1.1	15
39	NONRUMINANT NUTRITION SYMPOSIUM: Controlling feed cost by including alternative ingredients into pig diets: A review ^{1,2} . <i>Journal of Animal Science</i> , 2014, 92, 1293-1305.	0.2	159
40	Flaxseed fed pork: n ³ fatty acid enrichment and contribution to dietary recommendations. <i>Meat Science</i> , 2014, 96, 541-547.	2.7	53
41	Swine convert co-products from food and biofuel industries into animal protein for food. <i>Animal Frontiers</i> , 2013, 3, 48-53.	0.8	54
42	A Novel Approach for a Functional Group to Predict Protein in Undigested Residue and Protein Digestibility by Mid-Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2013, 67, 1343-1347.	1.2	3
43	Growth performance, diet nutrient digestibility, and bone mineralization in weaned pigs fed pelleted diets containing thermostable phytase ¹ . <i>Journal of Animal Science</i> , 2013, 91, 745-754.	0.2	15
44	Effects of increasing co-product inclusion and reducing dietary protein on growth performance, carcass characteristics, and jowl fatty acid profile of growing ¹ finishing pigs ¹ . <i>Journal of Animal Science</i> , 2013, 91, 2178-2191.	0.2	22
45	Glycemic index of starch affects nitrogen retention in grower pigs ¹ . <i>Journal of Animal Science</i> , 2012, 90, 1233-1241.	0.2	31
46	Oat β -Glucan and Dietary Calcium and Phosphorus Differentially Modify Intestinal Expression of Proinflammatory Cytokines and Monocarboxylate Transporter 1 and Cecal Morphology in Weaned Pigs. <i>Journal of Nutrition</i> , 2012, 142, 668-674.	1.3	53
47	Starch and fiber properties affect their kinetics of digestion and thereby digestive physiology in pigs. <i>Journal of Animal Science</i> , 2012, 90, 49-58.	0.2	53
48	Degradation and fermentation characteristics of wheat coproducts from flour milling in the pig intestine studied in vitro ¹ . <i>Journal of Animal Science</i> , 2012, 90, 173-175.	0.2	9
49	Digestibility energy and amino acids of canola meal from two species (<i>Brassica juncea</i> and <i>Brassica</i>) Tj ETQq1 1 0.784314 rgBT/Overl 0.2 10	0.2	10
50	Slowly digestible starch influences mRNA abundance of glucose and short-chain fatty acid transporters in the porcine distal intestinal tract ¹ . <i>Journal of Animal Science</i> , 2012, 90, 80-82.	0.2	20
51	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 pigs ¹ . <i>Journal of Animal Science</i> , 2011, 89, 113-123.	0.2	68
52	Dietary calcium phosphate content and oat β -glucan influence gastrointestinal microbiota, butyrate-producing bacteria and butyrate fermentation in weaned pigs. <i>FEMS Microbiology Ecology</i> , 2011, 75, 402-413.	1.3	92
53	Increasing omega-3 levels through dietary co-extruded flaxseed supplementation negatively affects pork palatability. <i>Food Chemistry</i> , 2011, 126, 1716-1723.	4.2	29
54	Evaluation of value-added components of dried distiller's grain with solubles from triticale and wheat. <i>Bioresource Technology</i> , 2011, 102, 6920-6927.	4.8	14

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55	Effects of viscosity and fermentability of dietary fibre on nutrient digestibility and digesta characteristics in ileal-cannulated grower pigs. <i>British Journal of Nutrition</i> , 2011, 106, 664-674.	1.2	66
56	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. <i>Journal of Nutrition</i> , 2011, 141, 398-405.	1.3	83
57	S<sc>hort</sc> C<sc>ommunication</sc>: Near infrared reflectance spectroscopy accurately predicts the digestible energy content of barley for pigs. <i>Canadian Journal of Animal Science</i> , 2011, 91, 301-304.	0.7	23
58	Processing conditions affect nutrient digestibility of cold-pressed canola cake for grower pigs ¹ . <i>Journal of Animal Science</i> , 2011, 89, 2452-2461.	0.2	40
59	Starch with High Amylose Content and Low In Vitro Digestibility Increases Intestinal Nutrient Flow and Microbial Fermentation and Selectively Promotes Bifidobacteria in Pigs. <i>Journal of Nutrition</i> , 2011, 141, 1273-1280.	1.3	102
60	Protein and starch concentrates of air-classified field pea and zero-tannin faba bean for weaned pigs ¹ . <i>Journal of Animal Science</i> , 2010, 88, 2627-2636.	0.2	15
61	Bacterial fermentation affects net mineral flux in the large intestine of pigs fed diets with viscous and fermentable nonstarch polysaccharides ² . <i>Journal of Animal Science</i> , 2010, 88, 3351-3362.	0.2	20
62	In Vitro Starch Digestion Kinetics, Corrected for Estimated Gastric Emptying, Predict Portal Glucose Appearance in Pigs ¹ . <i>Journal of Nutrition</i> , 2010, 140, 1227-1233.	1.3	73
63	Nonstarch Polysaccharides Modulate Bacterial Microbiota, Pathways for Butyrate Production, and Abundance of Pathogenic <i>Escherichia coli</i> in the Pig Gastrointestinal Tract. <i>Applied and Environmental Microbiology</i> , 2010, 76, 3692-3701.	1.4	116
64	Dietary Oat Î ² -Glucan Reduces Peak Net Glucose Flux and Insulin Production and Modulates Plasma Incretin in Portal-Vein Catheterized Grower Pigs. <i>Journal of Nutrition</i> , 2010, 140, 1564-1569.	1.3	64
65	The nutritional value of expeller-pressed canola meal for grower-finisher pigs ¹ . <i>Journal of Animal Science</i> , 2010, 88, 2073-2083.	0.2	82
66	Feeding co-extruded flaxseed to pigs: Effects of duration and feeding level on growth performance and backfat fatty acid composition of grower-â€finisher pigs. <i>Meat Science</i> , 2010, 84, 578-584.	2.7	47
67	Technical note: An improved surgical model for the long-term studies of kinetics and quantification of nutrient absorption in swine ^{1,2} . <i>Journal of Animal Science</i> , 2009, 87, 2013-2019.	0.2	30
68	Fermentation of Barley by Using <i>Saccharomyces cerevisiae</i> : Examination of Barley as a Feedstock for Bioethanol Production and Value-Added Products. <i>Applied and Environmental Microbiology</i> , 2009, 75, 1363-1372.	1.4	53
69	Effect of dietary inclusion of benzoic acid on mineral balance in growing pigs. <i>Livestock Science</i> , 2009, 122, 162-168.	0.6	33
70	In vitro digestibility techniques to predict apparent total tract energy digestibility of wheat in grower pigs ^{1,2} . <i>Journal of Animal Science</i> , 2009, 87, 3620-3629.	0.2	47
71	Zero-tannin faba bean as a replacement for soybean meal in diets for starter pigs. <i>Canadian Journal of Animal Science</i> , 2009, 89, 489-492.	0.7	8
72	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 pigs ^{1,2} . <i>Journal of Animal Science</i> , 2008, 86, 3450-3464.	0.2	79

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73	Effects of coextrusion of flaxseed and field pea on the digestibility of energy, ether extract, fatty acids, protein, and amino acids in grower-finisher pigs ¹ . <i>Journal of Animal Science</i> , 2008, 86, 2942-2951.	0.2	32
74	Prediction of in vivo apparent total tract energy digestibility of barley in grower pigs using an in vitro digestibility technique ¹ . <i>Journal of Animal Science</i> , 2008, 86, 2619-2626.	0.2	38
75	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 pigs ^{1,2} . <i>Journal of Animal Science</i> , 2007, 85, 3303-3312.	0.2	130
76	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. <i>Canadian Journal of Animal Science</i> , 2007, 87, 103-114.	0.7	138
77	Effect of low-phytate barley or phytase supplementation to a barley-soybean meal diet on phosphorus retention and excretion by grower pigs ^{1,2} . <i>Journal of Animal Science</i> , 2007, 85, 2941-2948.	0.2	19
78	Effects of guar gum and cellulose on digesta passage rate, ileal microbial populations, energy and protein digestibility, and performance of grower pigs ^{1,2} . <i>Journal of Animal Science</i> , 2006, 84, 843-852.	0.2	149
79	Voluntary feed intake in growing-finishing pigs: A review of the main determining factors and potential approaches for accurate predictions. <i>Canadian Journal of Animal Science</i> , 2004, 84, 549-566.	0.7	125
80	Effect of dietary particle size and carbohydrase and/or phytase supplementation on nitrogen and phosphorus excretion of grower pigs. <i>Canadian Journal of Animal Science</i> , 2002, 82, 533-540.	0.7	36
81	Digestible phosphorus requirement of grower pigs. <i>Canadian Journal of Animal Science</i> , 2002, 82, 541-549.	0.7	42
82	Effects of dietary protein and fermentable fiber on nitrogen excretion patterns and plasma urea in grower pigs. <i>Journal of Animal Science</i> , 2002, 80, 3247.	0.2	117
83	The energy content of barley fed to growing pigs: characterizing the nature of its variability and developing prediction equations for its estimation.. <i>Journal of Animal Science</i> , 1999, 77, 1502.	0.2	92
84	Nutritional value of wheat for growing pigs: chemical composition and digestible energy content. <i>Canadian Journal of Animal Science</i> , 1999, 79, 187-194.	0.7	94