

# Hans-Henrik Stein

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4720200/publications.pdf>

Version: 2024-02-01

90  
papers

2,092  
citations

304368

22  
h-index

276539

41  
g-index

90  
all docs

90  
docs citations

90  
times ranked

1522  
citing authors

#	ARTICLE	IF	CITATIONS
1	Values for digestible indispensable amino acid scores (DIAAS) for some dairy and plant proteins may better describe protein quality than values calculated using the concept for protein digestibility-corrected amino acid scores (PDCAAS). <i>British Journal of Nutrition</i> , 2017, 117, 490-499.	1.2	235
2	Non-antibiotic feed additives in diets for pigs: A review. <i>Animal Nutrition</i> , 2018, 4, 113-125.	2.1	206
3	Digestible indispensable amino acid score and digestible amino acids in eight cereal grains. <i>British Journal of Nutrition</i> , 2014, 111, 1663-1672.	1.2	96
4	Structures and characteristics of carbohydrates in diets fed to pigs: a review. <i>Journal of Animal Science and Biotechnology</i> , 2019, 10, 39.	2.1	86
5	Reduced Use of Antibiotic Growth Promoters in Diets Fed to Weanling Pigs: Dietary Tools, Part 2. <i>Animal Biotechnology</i> , 2006, 17, 217-231.	0.7	80
6	Application of the Reactive Lysine Procedure To Estimate Lysine Digestibility in Distillers Dried Grains with Solubles Fed to Growing Pigs. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 9441-9446.	2.4	73
7	Amino acid digestibility of heat damaged distillers dried grains with solubles fed to pigs. <i>Journal of Animal Science and Biotechnology</i> , 2013, 4, 44.	2.1	52
8	Comparative digestibility of energy and nutrients and fermentability of dietary fiber in eight cereal grains fed to pigs. <i>Journal of the Science of Food and Agriculture</i> , 2014, 94, 841-849.	1.7	52
9	Digestibility and metabolism of copper in diets for pigs and influence of dietary copper on growth performance, intestinal health, and overall immune status: a review. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 13.	2.1	46
10	The site of net absorption of Ca from the intestinal tract of growing pigs and effect of phytic acid, Ca level and Ca source on Ca digestibility. <i>Archives of Animal Nutrition</i> , 2014, 68, 126-142.	0.9	43
11	Excess dietary leucine in diets for growing pigs reduces growth performance, biological value of protein, protein retention, and serotonin synthesis. <i>Journal of Animal Science</i> , 2019, 97, 4282-4292.	0.2	40
12	Influence of the concentration of dietary digestible calcium on growth performance, bone mineralization, plasma calcium, and abundance of genes involved in intestinal absorption of calcium in pigs from 11 to 22%kg fed diets with different concentrations of digestible phosphorus. <i>Journal of Animal Science and Biotechnology</i> , 2019, 10, 47.	2.1	39
13	EXPERIENCE OF FEEDING PIGS WITHOUT ANTIBIOTICS: A EUROPEAN PERSPECTIVE. <i>Animal Biotechnology</i> , 2002, 13, 85-95.	0.7	37
14	Increasing levels of microbial phytase increases the digestibility of energy and minerals in diets fed to pigs. <i>Animal Feed Science and Technology</i> , 2019, 248, 27-36.	1.1	37
15	Effects of increasing concentrations of an <i>Escherichia coli</i> phytase on the apparent ileal digestibility of amino acids and the apparent total tract digestibility of energy and nutrients in corn-soybean meal diets fed to growing pigs. <i>Journal of Animal Science</i> , 2018, 96, 2804-2816.	0.2	33
16	Digestible indispensable amino acid score (DIAAS) and protein digestibility corrected amino acid score (PDCAAS) in oat protein concentrate measured in 20 to 30 kilogram pigs. <i>Journal of the Science of Food and Agriculture</i> , 2018, 98, 410-414.	1.7	33
17	Apparent and standardized ileal digestibility of AA and starch in hybrid rye, barley, wheat, and corn fed to growing pigs. <i>Journal of Animal Science</i> , 2018, 96, 3319-3329.	0.2	28
18	Degradation of dietary fiber in the stomach, small intestine, and large intestine of growing pigs fed corn- or wheat-based diets without or with microbial xylanase. <i>Journal of Animal Science</i> , 2019, 97, 338-352.	0.2	28

#	ARTICLE	IF	CITATIONS
19	Comparative digestibility of energy and nutrients in diets fed to sows and growing pigs. Archives of Animal Nutrition, 2015, 69, 79-97.	0.9	27
20	Effects of physicochemical characteristics of feed ingredients on the apparent total tract digestibility of energy, DM, and nutrients by growing pigs <sup>1</sup> . Journal of Animal Science, 2018, 96, 2265-2277.	0.2	27
21	Raw and roasted pistachio nuts (<sc><i>Pistacia vera</i></sc> L.) are "good"™ sources of protein based on their digestible indispensable amino acid score as determined in pigs. Journal of the Science of Food and Agriculture, 2020, 100, 3878-3885.	1.7	26
22	Enzymatic digestion turns food waste into feed for growing pigs. Animal Feed Science and Technology, 2018, 242, 48-58.	1.1	25
23	Prediction of digestible and metabolisable energy in soybean meals produced from soybeans of different origins fed to growing pigs. Archives of Animal Nutrition, 2015, 69, 473-486.	0.9	24
24	Dietary Protein and Cellulose Effects on Chemical and Microbial Characteristics of Swine Feces and Stored Manure. Journal of Environmental Quality, 2009, 38, 2138-2146.	1.0	23
25	The apparent ileal digestibility and the apparent total tract digestibility of carbohydrates and energy in hybrid rye are different from some other cereal grains when fed to growing pigs. Journal of Animal Science, 2020, 98, .	0.2	23
26	Standardized Ileal Digestibility of Reactive Lysine in Distillers Dried Grains with Solubles Fed to Growing Pigs. Journal of Agricultural and Food Chemistry, 2009, 57, 535-539.	2.4	22
27	Effect of novel fiber ingredients on ileal and total tract digestibility of energy and nutrients in semi-purified diets fed to growing pigs. Journal of the Science of Food and Agriculture, 2014, 94, 1284-1290.	1.7	22
28	Standardized total tract digestibility of calcium varies among sources of calcium carbonate, but not among sources of dicalcium phosphate, but microbial phytase increases calcium digestibility in calcium carbonate <sup>1</sup> . Journal of Animal Science, 2019, 97, 3440-3450.	0.2	22
29	Basal endogenous loss, standardized total tract digestibility of calcium in calcium carbonate, and retention of calcium in gestating sows change during gestation, but microbial phytase reduces basal endogenous loss of calcium <sup>1</sup> . Journal of Animal Science, 2019, 97, 1712-1721.	0.2	22
30	Most meat products have digestible indispensable amino acid scores that are greater than 100, but processing may increase or reduce protein quality. British Journal of Nutrition, 2020, 124, 14-22.	1.2	22
31	Nutritional composition, gross energy concentration, and in vitro digestibility of dry matter in 46 sources of bakery meals. Journal of Animal Science, 2018, 96, 4685-4692.	0.2	21
32	Values for Digestible Indispensable Amino Acid Score (DIAAS) Determined in Pigs Are Greater for Milk Than for Breakfast Cereals, but DIAAS Values for Individual Ingredients Are Additive in Combined Meals. Journal of Nutrition, 2021, 151, 540-547.	1.3	21
33	Effects of co-products from the corn-ethanol industry on body composition, retention of protein, lipids and energy, and on the net energy of diets fed to growing or finishing pigs. Journal of the Science of Food and Agriculture, 2014, 94, 3008-3016.	1.7	19
34	Can the digestible indispensable amino acid score methodology decrease protein malnutrition. Animal Frontiers, 2019, 9, 18-23.	0.8	19
35	Effects of microbial phytase on mucin synthesis, gastric protein hydrolysis, and degradation of phytate along the gastrointestinal tract of growing pigs <sup>1</sup> . Journal of Animal Science, 2019, 97, 756-767.	0.2	19
36	Additivity of values for phosphorus digestibility in corn, soybean meal, and canola meal in diets fed to growing pigs. Asian-Australasian Journal of Animal Sciences, 2018, 31, 1301-1307.	2.4	19

#	ARTICLE	IF	CITATIONS
37	Determination of True Ileal Amino Acid Digestibility in the Growing Pig for Calculation of Digestible Indispensable Amino Acid Score (DIAAS). <i>Journal of Nutrition</i> , 2020, 150, 2621-2623.	1.3	18
38	Digestibility of amino acids, fiber, and energy by growing pigs, and concentrations of digestible and metabolizable energy in yellow dent corn, hard red winter wheat, and sorghum may be influenced by extrusion. <i>Animal Feed Science and Technology</i> , 2020, 268, 114602.	1.1	18
39	Digestible indispensable amino acid score (DIAAS) is greater in animal-based burgers than in plant-based burgers if determined in pigs. <i>European Journal of Nutrition</i> , 2022, 61, 461-475.	1.8	18
40	Effects of a novel corn-expressed <i>E. coli</i> phytase on digestibility of calcium and phosphorous, growth performance, and bone ash in young growing pigs <sup>1</sup> . <i>Journal of Animal Science</i> , 2019, 97, 3390-3398.	0.2	17
41	Effects of <i>Bacillus amyloliquefaciens</i> and <i>Bacillus subtilis</i> on ileal digestibility of AA and total tract digestibility of CP and gross energy in diets fed to growing pigs <sup>1</sup> . <i>Journal of Animal Science</i> , 2019, 97, 727-734.	0.2	17
42	Effects of full fat rice bran and defatted rice bran on growth performance and carcass characteristics of growing-finishing pigs <sup>1</sup> . <i>Journal of Animal Science</i> , 2018, 96, 2293-2309.	0.2	16
43	Effects of microbial phytase on standardized total tract digestibility of phosphorus in hybrid rye, barley, wheat, corn, and sorghum fed to growing pigs <sup>1</sup> . <i>Translational Animal Science</i> , 2019, 3, 1238-1245.	0.4	14
44	A new source of high-protein distillers dried grains with solubles (DDGS) has greater digestibility of amino acids and energy, but less digestibility of phosphorus, than de-oiled DDGS when fed to growing pigs. <i>Journal of Animal Science</i> , 2020, 98, .	0.2	14
45	Digestible and metabolizable energy in soybean meal sourced from different countries and fed to pigs. <i>Animal Feed Science and Technology</i> , 2020, 268, 114600.	1.1	14
46	Torula yeast has greater digestibility of amino acids and phosphorus, but not energy, compared with a commercial source of fish meal fed to weanling pigs. <i>Journal of Animal Science</i> , 2020, 98, .	0.2	14
47	At least 3 days of adaptation are required before indigestible markers (chromium, titanium, and acid) Tj ETQq1 1 0.784314 rgBT /Over affected by the marker. <i>Journal of Animal Science</i> , 2020, 98, .	0.2	14
48	Effects of graded levels of an <i>Escherichia coli</i> phytase on growth performance, apparent total tract digestibility of phosphorus, and on bone parameters of weanling pigs fed phosphorus-deficient corn-soybean meal based diets. <i>Animal Feed Science and Technology</i> , 2017, 232, 102-109.	1.1	13
49	Effects of copper hydroxychloride and distillers dried grains with solubles on intestinal microbial concentration and apparent ileal and total tract digestibility of energy and nutrients by growing pigs <sup>1</sup> . <i>Journal of Animal Science</i> , 2019, 97, 4904-4911.	0.2	13
50	Arabinoxylan is the main polysaccharide in fiber from rice coproducts, and increased concentration of fiber decreases in vitro digestibility of dry matter. <i>Animal Feed Science and Technology</i> , 2019, 247, 255-261.	1.1	13
51	Pork Products Have Digestible Indispensable Amino Acid Scores (DIAAS) That Are Greater Than 100 When Determined in Pigs, but Processing Does Not Always Increase DIAAS. <i>Journal of Nutrition</i> , 2020, 150, 475-482.	1.3	12
52	Concentrations of digestible and metabolizable energy and amino acid digestibility by growing pigs may be reduced by autoclaving soybean meal. <i>Animal Feed Science and Technology</i> , 2020, 269, 114621.	1.1	12
53	Effects of including raw or extruded field peas ( <i>Pisum sativum</i> L.) in diets fed to weanling pigs. <i>Journal of the Science of Food and Agriculture</i> , 2010, 90, 1429-1436.	1.7	11
54	Amino acid digestibility in low-fat distillers dried grains with solubles fed to growing pigs. <i>Journal of Animal Science and Biotechnology</i> , 2014, 5, 27.	2.1	11

#	ARTICLE	IF	CITATIONS
55	Methodology effects on determining the energy concentration and the apparent total tract digestibility of components in diets fed to growing pigs. <i>Asian-Australasian Journal of Animal Sciences</i> , 2018, 31, 1315-1324.	2.4	11
56	Digestibility of amino acids, energy, acid hydrolyzed ether extract, and neutral detergent fiber, and concentration of digestible and metabolizable energy in low-oil distillers dried grains with solubles fed to growing pigs. <i>Translational Animal Science</i> , 2019, 3, 662-675.	0.4	10
57	Comparative ileal digestibility of amino acids in 00-rapeseed meal and rapeseed meal fed to growing male broilers. <i>Poultry Science</i> , 2017, 96, 2736-2742.	1.5	9
58	Technical note: concentrations of soluble, insoluble, and total dietary fiber in feed ingredients determined using Method AOAC 991.43 are not different from values determined using Method AOAC 2011.43 with the AnkomTDF Dietary Fiber Analyzer. <i>Journal of Animal Science</i> , 2019, 97, 3972-3983.	0.2	9
59	Standardized ileal digestibility of amino acids in canola meal fed to gestating and lactating sows. <i>Journal of Animal Science</i> , 2019, 97, 4219-4226.	0.2	9
60	Increasing calcium from deficient to adequate concentration in diets for gestating sows decreases digestibility of phosphorus and reduces serum concentration of a bone resorption biomarker. <i>Journal of Animal Science</i> , 2020, 98, .	0.2	9
61	Shiitake mycelium fermentation improves digestibility, nutritional value, flavor and functionality of plant proteins. <i>LWT - Food Science and Technology</i> , 2022, 156, 113065.	2.5	9
62	Evaluation of soybean meal from different sources as an ingredient in practical diets for Pacific white shrimp <i>Litopenaeus vannamei</i> . <i>Aquaculture Research</i> , 2019, 50, 1230-1247.	0.9	8
63	The direct and difference procedures result in similar estimates for amino acid digestibility in feed ingredients fed to growing pigs. <i>Journal of Animal Science</i> , 2020, 98, .	0.2	8
64	Apparent energy, dry matter and amino acid digestibility of differently sourced soybean meal fed to Pacific white shrimp <i>Litopenaeus vannamei</i> . <i>Aquaculture Research</i> , 2020, 51, 326-340.	0.9	7
65	Effects of copper hydroxychloride on growth performance and abundance of genes involved in lipid metabolism of growing pigs. <i>Journal of Animal Science</i> , 2020, 98, .	0.2	7
66	Extrusion of soybean hulls does not increase digestibility of amino acids or concentrations of digestible and metabolizable energy when fed to growing pigs. <i>Translational Animal Science</i> , 2020, 4, txaa169.	0.4	7
67	Formulating diets based on digestible calcium instead of total calcium does not affect growth performance or carcass characteristics, but microbial phytase ameliorates bone resorption caused by low calcium in diets fed to pigs from 11 to 130 kg. <i>Journal of Animal Science</i> , 2021, 99, .	0.2	7
68	Corn protein has greater concentrations of digestible amino acids and energy than low-oil corn distillers dried grains with solubles when fed to pigs but does not affect the growth performance of weanling pigs. <i>Journal of Animal Science</i> , 2021, 99, .	0.2	7
69	Oven drying of ileal digesta from growing pigs reduces the concentration of AA compared with freeze drying and results in reduced calculated values for endogenous losses and elevated estimates for ileal digestibility of AA. <i>Journal of Animal Science</i> , 2019, 97, 820-828.	0.2	6
70	Reduced concentrations of limestone and monocalcium phosphate in diets without or with microbial phytase did not influence gastric pH, fecal score, or growth performance, but reduced bone ash and serum albumin in weanling pigs. <i>Translational Animal Science</i> , 2021, 5, txab115.	0.4	6
71	Comparison of Two Different In Vivo Models and an In Vitro Model for Caloric Determination of Four Novel Fiber Ingredients. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 12374-12379.	2.4	5
72	Digestibility of amino acids, but not fiber, fat, or energy, is greater in cold-fermented, low-oil distillers dried grains with solubles (DDGS) compared with conventional DDGS fed to growing pigs. <i>Journal of Animal Science</i> , 2020, 98, .	0.2	5

#	ARTICLE	IF	CITATIONS
73	Inclusion of dicopper oxide instead of copper sulfate in diets for growingâ€“finishing pigs results in greater final body weight and bone mineralization, but reduced accumulation of copper in the liver. <i>Journal of Animal Science</i> , 2021, 99, .	0.2	5
74	Effects of a novel <i>E. coli</i> phytase expressed in <i>Pseudomonas fluorescens</i> on growth, bone mineralization, and nutrient digestibility in pigs fed cornâ€“soybean meal diets. <i>Translational Animal Science</i> , 2020, 4, txa201.	0.4	5
75	Canola meal produced from high-protein or conventional varieties of canola seeds may substitute soybean meal in diets for gestating and lactating sows without compromising sow or litter productivity. <i>Journal of Animal Science</i> , 2018, 96, 5179-5187.	0.2	4
76	Effects of distillers dried grains with solubles on amino acid digestibility, growth performance, and carcass characteristics of growing pigs1. <i>Translational Animal Science</i> , 2019, 3, 641-653.	0.4	4
77	Soybean meal sourced from Argentina, Brazil, China, India and USA as an ingredient in practical diets for Pacific white shrimp <i>Litopenaeus vannamei</i> . <i>Aquaculture Nutrition</i> , 2021, 27, 1103-1113.	1.1	4
78	Addition of hydrochloric acid to collection bags or collection containers did not change basal endogenous losses or ileal digestibility of amino acid in corn, soybean meal, or wheat middlings fed to growing pigs. <i>Animal Bioscience</i> , 2021, 34, 1632-1642.	0.8	4
79	Bioavailability of valine in spray-dried L-valine biomass is not different from that in crystalline L-valine when fed to weanling pigs1. <i>Journal of Animal Science</i> , 2019, 97, 4227-4234.	0.2	3
80	125 Effects of copper hydroxychloride and increasing concentrations of dietary fat on growth performance, total tract endogenous loss of fat, and apparent total tract digestibility of fat by growing pigs. <i>Journal of Animal Science</i> , 2019, 97, 68-68.	0.2	3
81	Protein quality in readyâ€“toâ€“use supplementary foods for moderate wasting. <i>Maternal and Child Nutrition</i> , 2020, 16, e13019.	1.4	3
82	Quantities of ash, Ca, and P in metacarpals, metatarsals, and tibia are better correlated with total body bone ash in growing pigs than ash, Ca, and P in other bones. <i>Journal of Animal Science</i> , 2021, 99, .	0.2	3
83	Increased microbial phytase increased phytate destruction, plasma inositol, and feed efficiency of weanling pigs, but reduced dietary calcium and phosphorus did not affect gastric pH or fecal score and reduced growth performance and bone ash. <i>Journal of Animal Science</i> , 2021, 99, .	0.2	3
84	Enzymatic hydrolysis and fermentation of soy flour to produce ethanol and soy protein concentrate with increased polyphenols. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2022, 99, 379-391.	0.8	3
85	Microscopy and protein solubilization of digesta from pigs fed wheat, corn, or soybean meal-based diets, with or without protease and a <i>Bacillus</i> spp. direct-fed microbial. <i>Animal Feed Science and Technology</i> , 2019, 247, 183-193.	1.1	2
86	Formulation of diets for pigs based on a ratio between digestible calcium and digestible phosphorus results in reduced excretion of calcium in urine without affecting retention of calcium and phosphorus compared with formulation based on values for total calcium. <i>Journal of Animal Science</i> , 2021, 99, .	0.2	1
87	Impact of formaldehyde addition to spray-dried plasma on functional parameters and animal performance1. <i>Translational Animal Science</i> , 2019, 3, 654-661.	0.4	0
88	Growth performance and carcass quality are not different between pigs fed diets containing cold-fermented low-oil distillers dried grains with solubles (DDGS) and pigs fed conventional DDGS, but pelleting improves gain to feed ratio regardless of source of DDGS. <i>Journal of Animal Science</i> , 2021, 99, .	0.2	0
89	Metabolizable energy in corn is greater than in hybrid rye when fed to gestating sows, but exogenous enzymes did not increase energy digestibility. <i>Canadian Journal of Animal Science</i> , 0, , 1-4.	0.7	0
90	92 Effects of Increasing Dose of a Novel <i>E. coli</i> Phytase on Total Tract Digestibility of Minerals and Energy in Pigs. <i>Journal of Animal Science</i> , 2022, 100, 36-37.	0.2	0