

Karl-Heinz Sdekum

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119
papers

1,719
citations

24
h-index

35
g-index

123
ext. papers

2,089
ext. citations

2.8
avg, IF

5.02
L-index

#	Paper	IF	Citations
119	Forage fermentation patterns and their implications for herbivore ingesta retention times. <i>Functional Ecology</i> , 2006 , 20, 989-1002	5.6	100
118	Another one bites the dust: faecal silica levels in large herbivores correlate with high-crowned teeth. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011 , 278, 1742-7	4.4	69
117	Changes in maize silage fermentation products during aerobic deterioration and effects on dry matter intake by goats. <i>Agricultural and Food Science</i> , 2013 , 22, 168-181	2	58
116	Invited review: Practical feeding management recommendations to mitigate the risk of subacute ruminal acidosis in dairy cattle. <i>Journal of Dairy Science</i> , 2018 , 101, 872-888	4	58
115	Voluntary feed intake and digestibility of four domestic ruminant species as influenced by dietary constituents: A meta-analysis. <i>Livestock Science</i> , 2014 , 162, 76-85	1.7	57
114	Relationship between fecal crude protein concentration and diet organic matter digestibility in cattle. <i>Journal of Animal Science</i> , 2005 , 83, 1332-44	0.7	53
113	Impact of mild heat stress on dry matter intake, milk yield and milk composition in mid-lactation Holstein dairy cows in a temperate climate. <i>Archives of Animal Nutrition</i> , 2014 , 68, 358-69	2.7	42
112	Is there an influence of body mass on digesta mean retention time in herbivores? A comparative study on ungulates. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2011 , 160, 355-64	2.6	42
111	Does body mass convey a digestive advantage for large herbivores?. <i>Functional Ecology</i> , 2014 , 28, 1127-1134	1.8	40
110	Leaf ascorbic acid level--is it really important for ozone tolerance in rice?. <i>Plant Physiology and Biochemistry</i> , 2012 , 59, 63-70	5.4	39
109	Faecal particle size: digestive physiology meets herbivore diversity. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015 , 179, 182-91	2.6	38
108	Land Use for Edible Protein of Animal Origin-A Review. <i>Animals</i> , 2017 , 7,	3.1	38
107	Biogenic amines and gamma-amino butyric acid in silages: Formation, occurrence and influence on dry matter intake and ruminant production. <i>Animal Feed Science and Technology</i> , 2015 , 210, 1-16	3	36
106	Effects of thyme and oregano on growth performance of broilers from 4 to 42 days of age and on microbial counts in crop, small intestine and caecum of 42-day-old broilers. <i>Animal Feed Science and Technology</i> , 2012 , 178, 198-202	3	35
105	The effect of size and density on the mean retention time of particles in the reticulorumen of cattle (<i>Bos primigenius</i> f. <i>taurus</i>), muskoxen (<i>Ovibos moschatus</i>) and moose (<i>Alces alces</i>). <i>British Journal of Nutrition</i> , 2011 , 105, 634-44	3.6	33
104	Plasmaspiegel, Clearance sowie renale Ausscheidung von endogenen und ruminalen Purinen beim Rind*. <i>Journal of Animal Physiology and Animal Nutrition</i> , 1993 , 70, 180-189	2.6	33
103	Effect of compaction, delayed sealing and aerobic exposure on maize silage quality and on formation of volatile organic compounds. <i>Grass and Forage Science</i> , 2018 , 73, 53-66	2.3	32

102	Evaluation and validation of an automatic jaw movement recorder (RumiWatch) for ingestive and rumination behaviors of dairy cows during grazing and supplementation. <i>Journal of Dairy Science</i> , 2018 , 101, 2463-2475	4	31
101	Ochratoxin A in ruminants: A review on its degradation by gut microbes and effects on animals. <i>Toxins</i> , 2010 , 2, 809-39	4.9	31
100	Effects of chemically treated soybeans and expeller rapeseed meal on in vivo and in situ crude fat and crude protein disappearance from the rumen. <i>Animal Feed Science and Technology</i> , 2005 , 118, 215-227	3.7	31
99	Estimating utilisable crude protein at the duodenum, a precursor to metabolisable protein for ruminants, from forages using a modified gas test. <i>Animal Feed Science and Technology</i> , 2012 , 175, 106-113	1.3	28
98	Comparison of in vitro and in situ methods in evaluation of forage digestibility in ruminants. <i>Journal of Animal Science</i> , 2012 , 90, 3162-73	0.7	25
97	Estimating ruminal crude protein degradation with in situ and chemical fractionation procedures. <i>Animal Feed Science and Technology</i> , 2000 , 85, 195-214	3	25
96	Estimating ruminal crude protein degradation of forages using in situ and in vitro techniques. <i>Animal Feed Science and Technology</i> , 2012 , 175, 95-105	3	24
95	Comparative investigations on digestion in grazing (<i>Ceratotherium simum</i>) and browsing (<i>Diceros bicornis</i>) rhinoceroses. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2010 , 156, 380-8	2.6	24
94	Nutrition-induced Changes of Growth from Birth to First Calving and Its Impact on Mammary Development and First-lactation Milk Yield in Dairy Heifers: A Review. <i>Asian-Australasian Journal of Animal Sciences</i> , 2012 , 25, 1338-50	2.4	22
93	Mitochondrial DNA copy number and biogenesis in different tissues of early- and late-lactating dairy cows. <i>Journal of Dairy Science</i> , 2016 , 99, 1571-1583	4	21
92	Does intra-ruminal nitrogen recycling waste valuable resources? A review of major players and their manipulation. <i>Journal of Animal Science and Biotechnology</i> , 2018 , 9, 33	6	21
91	Spectral indicators of forage quality in West African tropical savannas. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015 , 41, 99-106	7.3	20
90	Herbage dry matter intake estimation of grazing dairy cows based on animal, behavioral, environmental, and feed variables. <i>Journal of Dairy Science</i> , 2019 , 102, 2985-2999	4	19
89	Variation in the contents of crude protein fractions of different forage legumes during the spring growth. <i>Grass and Forage Science</i> , 2010 , 65, 376-382	2.3	19
88	Effects of amount of intake and stage of forage maturity on urinary allantoin excretion and estimated microbial crude protein synthesis in the rumen of steers. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2006 , 90, 136-45	2.6	19
87	Impact of cow strain and concentrate supplementation on grazing behaviour, milk yield and metabolic state of dairy cows in an organic pasture-based feeding system. <i>Animal</i> , 2017 , 11, 1163-1173	3.1	17
86	Quantification of Methane and Ammonia Emissions in a Naturally Ventilated Barn by Using Defined Criteria to Calculate Emission Rates. <i>Animals</i> , 2018 , 8,	3.1	17
85	Aerobic exposure of grass silages and its impact on dry matter intake and preference by goats. <i>Small Ruminant Research</i> , 2014 , 117, 131-141	1.7	17

84	Effect of extent and rate of wilting on nitrogen components of grass silage. <i>Grass and Forage Science</i> , 2014 , 69, 140-152	2.3	17
83	European distillers dried grains with solubles (DDGS): Chemical composition and in vitro evaluation of feeding value for ruminants. <i>Animal Feed Science and Technology</i> , 2017 , 224, 66-77	3	16
82	Effect of condensed tannins in rations of lactating dairy cows on production variables and nitrogen use efficiency. <i>Animal</i> , 2018 , 12, 1847-1855	3.1	16
81	Thyme oil inclusion levels in a rabbit ration: Evaluation of productive performance, carcass criteria and meat quality under hot environmental conditions. <i>Animal Nutrition</i> , 2018 , 4, 410-416	4.8	16
80	The amino acid composition of rumen-undegradable protein: a comparison between forages. <i>Journal of Dairy Science</i> , 2013 , 96, 4568-77	4	16
79	Effect of Wilting Intensity, Dry Matter Content and Sugar Addition on Nitrogen Fractions in Lucerne Silages. <i>Agriculture (Switzerland)</i> , 2019 , 9, 11	3	14
78	A new protein evaluation system for horse feed from literature data. <i>Journal of Nutritional Science</i> , 2015 , 4, e4	2.7	14
77	Review: protein value of distillers dried grains with solubles (DDGS) in animal nutrition as affected by the ethanol production process. <i>Animal Feed Science and Technology</i> , 2018 , 244, 11-17	3	13
76	Fibre digestibility in large herbivores as related to digestion type and body mass--an in vitro approach. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2013 , 164, 319-26	2.6	13
75	Peppermint and its respective active component in diets of broiler chickens: growth performance, viability, economics, meat physicochemical properties, and carcass characteristics. <i>Poultry Science</i> , 2019 , 98, 3850-3859	3.9	12
74	Effect of condensed tannin supplementation on in vivo nutrient digestibilities and energy values of concentrates in sheep. <i>Small Ruminant Research</i> , 2018 , 161, 57-62	1.7	12
73	Effects of limited concentrate feeding on growth and blood and serum variables, and on nutrient digestibility and gene expression of hepatic gluconeogenic enzymes in dairy calves. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2012 , 96, 25-36	2.6	12
72	Effect of niacin supplementation on rumen fermentation characteristics and nutrient flow at the duodenum in lactating dairy cows fed a diet with a negative rumen nitrogen balance. <i>Archives of Animal Nutrition</i> , 2012 , 66, 303-18	2.7	12
71	Invited review: Resource inputs and land, water and carbon footprints from the production of edible protein of animal origin. <i>Archives Animal Breeding</i> , 2018 , 61, 17-36	1.6	12
70	Excretion of faecal, urinary urea and urinary non-urea nitrogen by four ruminant species as influenced by dietary nitrogen intake: A meta-analysis. <i>Livestock Science</i> , 2017 , 198, 82-88	1.7	11
69	In situ and in vitro ruminal degradation of maize grain and untreated or xylose-treated wheat, barley and rye grains. <i>Animal Feed Science and Technology</i> , 2015 , 210, 86-93	3	11
68	Ruminal ochratoxin A degradation—Contribution of the different microbial populations and influence of diet. <i>Animal Feed Science and Technology</i> , 2012 , 171, 85-97	3	11
67	Rumen contents and ruminal and faecal particle size distribution in steers fed a mixed diet at three amounts of intake. <i>Animal Feed Science and Technology</i> , 1997 , 64, 143-154	3	11

66	Effects of temporary intensive feed restriction on performance, nutrient digestibility and carcass criteria of growing male Californian rabbits. <i>Archives of Animal Nutrition</i> , 2015 , 69, 69-78	2.7	10
65	Estimation of intestinal protein digestibility of protein supplements for ruminants using a three-step enzymatic in vitro procedure. <i>Archives of Animal Nutrition</i> , 2015 , 69, 310-8	2.7	9
64	Aerobic exposure of lucerne silages and its impact on preference and dry matter intake by goats. <i>Small Ruminant Research</i> , 2014 , 121, 308-313	1.7	9
63	Effects of intake level of a mixed diet on chewing activity and on particle size of ruminated boli, ruminal digesta fractions and faeces of steers. <i>Reproduction, Nutrition, Development</i> , 1997 , 37, 517-28		9
62	Influence of ruminal methane on digesta retention and digestive physiology in non-lactating dairy cattle. <i>British Journal of Nutrition</i> , 2016 , 116, 763-73	3.6	9
61	Effects of ethyl ester supplementation to forage on short-term dry matter intake and preference by goats. <i>Archives of Animal Nutrition</i> , 2019 , 73, 127-139	2.7	8
60	Effect of compaction, delayed sealing and aerobic exposure on forage choice and short-term intake of maize silage by goats. <i>Grass and Forage Science</i> , 2018 , 73, 392-405	2.3	8
59	Modular Wear Facet Nomenclature for mammalian post-canine dentitions. <i>Historical Biology</i> , 2018 , 30, 30-41	1.1	8
58	Pangola grass as forage for ruminant animals: a review. <i>SpringerPlus</i> , 2013 , 2, 604		8
57	Evaluation of the effects of tropical tanniferous plants on rumen microbiota using qRT PCR and DGGE analysis. <i>Czech Journal of Animal Science</i> , 2013 , 58, 106-116	1.1	8
56	Effects of non-enzymatic browning reaction intensity on in vitro ruminal protein degradation and intestinal protein digestion of soybean and cottonseed meals. <i>Animal Feed Science and Technology</i> , 2011 , 163, 255-259	3	8
55	Effect of forage species and ensiling conditions on silage composition and quality and the feed choice behaviour of goats. <i>Grass and Forage Science</i> , 2019 , 74, 297-313	2.3	7
54	Short communication: Telomere lengths in different tissues of dairy cows during early and late lactation. <i>Journal of Dairy Science</i> , 2016 , 99, 4881-4885	4	7
53	Recoveries of 15N-labelled fertilizers (chicken manure, mushroom compost and potassium nitrate) in arable topsoil after autumn application to winter cover crops. <i>Soil and Tillage Research</i> , 2013 , 130, 120-127	6.5	7
52	Cattle Diets Strongly Affect Nitrous Oxide in the Rumen. <i>Sustainability</i> , 2018 , 10, 3679	3.6	7
51	Within plant variation of distillers dried grains with solubles (DDGS) produced from multiple raw materials in varying proportions: Chemical composition and in vitro evaluation of feeding value for ruminants. <i>Animal Feed Science and Technology</i> , 2017 , 229, 79-90	3	6
50	Little differences in digestive efficiency for protein and fat in mammals of different trophic guilds and digestive strategies: data constraints or fundamental functional similarity?. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2017 , 101 Suppl 1, 127-141	2.6	6
49	In vitro gas production, in vivo nutrient digestibilities, and metabolisable energy concentrations for sheep of fresh and conserved pangola grass. <i>Small Ruminant Research</i> , 2015 , 128, 34-40	1.7	6

48	Biomass and quality changes of forages along land use and soil type gradients in the riparian zone of Lake Naivasha, Kenya. <i>Ecological Indicators</i> , 2015 , 49, 169-177	5.8	6
47	Nitrogen supply in cattle coupled with appropriate supply of utilisable crude protein at the duodenum, a precursor to metabolisable protein. <i>Archives of Animal Nutrition</i> , 2016 , 70, 293-306	2.7	6
46	Adaptation of electrolyte handling to low crude protein intake in growing goats and consequences for in vivo electrolyte excretion. <i>Small Ruminant Research</i> , 2013 , 114, 90-96	1.7	6
45	Ensiled sugar beets as dietary component and their effect on preference and dry matter intake by goats. <i>Archives of Animal Nutrition</i> , 2017 , 71, 297-310	2.7	5
44	Effects of length of ensiling and maturity group on chemical composition and in vitro ruminal degradability of whole-crop maize. <i>Grass and Forage Science</i> , 2018 , 73, 599-609	2.3	5
43	Does trans-10, cis-12 conjugated linoleic acid affect the intermediary glucose and energy expenditure of dairy cows due to repartitioning of milk component synthesis?. <i>Journal of Dairy Research</i> , 2015 , 82, 407-15	1.6	5
42	Chemical composition and fermentation characteristics of feedstuffs for giraffes (<i>Giraffa camelopardalis</i>) in German zoos. <i>Journal of Animal and Feed Sciences</i> , 2016 , 25, 134-144	1.5	5
41	Using plant wax markers to estimate the diet composition of grazing Holstein dairy cows. <i>Journal of Dairy Science</i> , 2017 , 100, 1019-1036	4	4
40	Mining the global diversity for bioenergy traits of barley straw: genomewide association study under varying plant water status. <i>GCB Bioenergy</i> , 2017 , 9, 1356-1369	5.6	4
39	Food intake rates of herbivorous mammals and birds and the influence of body mass. <i>European Journal of Wildlife Research</i> , 2015 , 61, 91-102	2	4
38	Protection of protein from ruminal degradation by alkali-induced oxidation of chlorogenic acid in sunflower meal. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2018 , 102, e209-e215	2.6	4
37	Renal energy excretion of horses depends on renal hippuric acid and nitrogen excretion. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2018 , 102, e380-e386	2.6	4
36	In vitro ruminal fermentation characteristics of alfalfa silages in response to different pre-ensiling treatments. <i>Animal Feed Science and Technology</i> , 2019 , 258, 114306	3	4
35	In vitro ruminal dry matter degradability, microbial efficiency, short chain fatty acids, carbohydrate and protein fractionation of tropical grass-multipurpose tree species diets. <i>Livestock Science</i> , 2014 , 160, 45-51	1.7	4
34	Digestibility, ruminal fermentation, ingesta kinetics and nitrogen utilisation in dairy cows fed diets based on silage of a brown midrib or a standard maize hybrid. <i>Archives of Animal Nutrition</i> , 2014 , 68, 143-158	2.7	4
33	Comparative evaluation of equations predicting methane production of dairy cattle from feed characteristics. <i>Archives of Animal Nutrition</i> , 2013 , 67, 279-88	2.7	4
32	Comparative nutritive value of cassava leaf meal, soya beans, fish meal and casein in diets for growing pigs. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2004 , 88, 30-8	2.6	4
31	Phosphorus digestibility and metabolisable energy concentrations of contemporary wheat, barley, rye and triticale genotypes fed to growing pigs. <i>Archives of Animal Nutrition</i> , 2020 , 74, 429-444	2.7	4

30	Differently Pre-treated Alfalfa Silages Affect the Ruminal Microbiota Composition. <i>Frontiers in Microbiology</i> , 2019 , 10, 2761	5.7	4
29	Decision-making of goats when exposed to choice feeding: Triggered by taste or smell?. <i>Applied Animal Behaviour Science</i> , 2019 , 210, 46-51	2.2	4
28	Growth, nutrient digestibility, ileal digesta viscosity, and energy metabolizability of growing turkeys fed diets containing malted sorghum sprouts supplemented with enzyme or yeast. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2017 , 101, 449-456	2.6	3
27	Retention of solute and particle markers in the digestive tract of captive Somali wild asses (<i>Equus africanus somaliensis</i>). <i>European Journal of Wildlife Research</i> , 2017 , 63, 1	2	3
26	The Effect of Herbage Conservation Method on Protein Value and Nitrogen Utilization in Dairy Cows. <i>Agriculture (Switzerland)</i> , 2019 , 9, 118	3	3
25	Effect of dietary <i>Rhodobacter capsulatus</i> on lipid fractions and egg-yolk fatty acid composition in laying hens. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2012 , 96, 1091-100	2.6	3
24	Effect of ambient temperature on nutrient digestibility and nitrogen balance in sheep fed brown-midrib maize silage. <i>Archives of Animal Nutrition</i> , 2014 , 68, 336-44	2.7	3
23	A small scale in vitro system for high throughput gas production analysis [A comparison with the Hohenheim gas test. <i>Animal Feed Science and Technology</i> , 2018 , 241, 8-14	3	2
22	Influence of ration composition on nutritive and digestive variables in captive giraffes (<i>Giraffa camelopardalis</i>) indicating the appropriateness of feeding practice. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2018 , 102, e513-e524	2.6	2
21	Short communication: milk output in llamas (<i>Lama glama</i>) in relation to energy intake and water turnover measured by an isotope dilution technique. <i>Journal of Dairy Science</i> , 2013 , 96, 1815-9	4	2
20	In vitro gas production and in vivo nutrient digestibility and growth performance of Thai indigenous cattle fed fresh and conserved pangola grass. <i>Italian Journal of Animal Science</i> , 2017 , 16, 521-529	2.2	2
19	Chemical composition, rumen degradability and crude protein fractionation of some commercial and improved cowpea (<i>Vigna unguiculata</i> L. Walp) haulm varieties. <i>Grass and Forage Science</i> , 2012 , 67, 210-218	2.3	2
18	Varying ensiling conditions affect the fermentation quality and abundance of bacterial key players in lucerne silages. <i>Journal of Agricultural Science</i> , 2020 , 158, 297-303	1	2
17	Contribution of different rumen microbial groups to gas, short-chain fatty acid and ammonium production from different diets-an approach in an in vitro fermentation system. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2019 , 103, 17-28	2.6	2
16	Replacing maize silage plus soybean meal with red clover silage plus wheat grain in diets of dairy cows: Modelling the utilizable crude protein at the duodenum, a precursor to metabolizable protein. <i>Animal Feed Science and Technology</i> , 2018 , 246, 29-35	3	2
15	Effect of replacing maize grain and soybean meal with a xylose-treated wheat grain on feed intake and performance of dairy cows. <i>Archives of Animal Nutrition</i> , 2017 , 71, 246-255	2.7	1
14	Increasing feed intake in domestic goats (<i>Capra hircus</i>): Measured effects on chewing intensity are probably driven by escape of few, large particles from the forestomach. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2021 , 257, 110972	2.6	1
13	Linking forage choice behavior of goats with the metabolome of contrasting silages. <i>Journal of Dairy Science</i> , 2021 , 104, 308-323	4	1

12	Increasing food intake affects digesta retention, digestibility and gut fill but not chewing efficiency in domestic rabbits (<i>Oryctolagus cuniculus</i>). <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2021 , 335, 614-622	1.9	1
11	Towards Forage Resource Monitoring in subtropical Savanna Grasslands: going multispectral or hyperspectral?. <i>European Journal of Remote Sensing</i> , 2021 , 54, 364-384	2.9	1
10	Preference and discrimination behaviour of llamas to saline drinking water. <i>Small Ruminant Research</i> , 2022 , 207, 106613	1.7	0
9	Estimation of diet organic matter digestibility in grazing dairy cows. <i>Archives of Animal Nutrition</i> , 2021 , 75, 153-166	2.7	0
8	Meta-analysis-based estimates of efficiency of calcium utilisation by ruminants. <i>Animal</i> , 2021 , 15, 100315.1	1.1	0
7	Sensitivity of ponies to sodium in the drinking water.. <i>Animal Science Journal</i> , 2022 , 93, e13697	1.8	0
6	Feed intake and digestibility by sheep of natural vegetation in the riparian land of lake Naivasha, Kenya. <i>Small Ruminant Research</i> , 2015 , 123, 75-82	1.7	
5	Species-specific responses of N homeostasis and electrolyte handling to low N intake: a comparative physiological approach in a monogastric and a ruminant species. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2014 , 184, 137-47	2.2	
4	Evaluation of oregano leaves and plant bioactive lipid compounds as feed additives for growing rabbits: Effects on performance, nutrient digestibility, serum metabolic profile and carcass traits. <i>Animal Feed Science and Technology</i> , 2022 , 284, 115208	3	
3	Die Landwirtschaftliche Fakultät 2018 , 521-604		
2	Simultaneous detection of biogenic amines and aminobutyric acid isomers in high-protein forages. <i>Animal Feed Science and Technology</i> , 2019 , 258, 114305	3	
1	Effects of pre-ensiling treatments on feed choice and short-term dry matter intake of lucerne silages by goats. <i>Livestock Science</i> , 2021 , 250, 104589	1.7	