Secundino Lopez

List of Publications by Year
in descending order

206 papers	5,498 citations	109264 35 h-index	110317 64 g-index
210 all docs	210 docs citations	210 times ranked	4182 citing authors

#	Article	IF	Citations
1	Estimating the extent of degradation of ruminant feeds from a description of their gas production profiles observedin vitro:derivation of models and other mathematical considerations. British Journal of Nutrition, 2000, 83, 143-150.	1.2	413
2	Manipulation of rumen fermentation and methane production with plant secondary metabolites. Animal Feed Science and Technology, 2012, 176, 78-93.	1.1	287
3	Ruminal pH regulation and nutritional consequences of low pH. Animal Feed Science and Technology, 2012, 172, 22-33.	1.1	230
4	Statistical evaluation of mathematical models for microbial growth. International Journal of Food Microbiology, 2004, 96, 289-300.	2.1	200
5	A generalized Michaelis-Menten equation for the analysis of growth.. Journal of Animal Science, 2000, 78, 1816.	0.2	174
6	Modelling the implications of feeding strategy on rumen fermentation and functioning of the rumen wall. Animal Feed Science and Technology, 2008, 143, 3-26.	1.1	168
7	Propionate precursors and other metabolic intermediates as possible alternative electron acceptors to methanogenesis in ruminal fermentationin vitro. British Journal of Nutrition, 2005, 94, 27-35.	1.2	151
8	In vitro screening of the potential of numerous plant species as antimethanogenic feed additives for ruminants. Animal Feed Science and Technology, 2008, 145, 245-258.	1.1	129
9	A non-linear compartmental model to describe forage degradation kinetics during incubation in polyester bads in the rumen. British Journal of Nutrition, 1995, 73, 3-15.	1.2	99
10	Effect of adding acetogenic bacteria on methane production by mixed rumen microorganisms. Animal Feed Science and Technology, 1999, 78, 1-9.	1.1	97
11	Moringa oleifera leaf meal as a protein source in lactating goat's diets: Feed intake, digestibility, ruminal fermentation, milk yield and composition, and its fatty acids profile. Small Ruminant Research, 2015, 129, 129-137.	0.6	95
12	Influence of sodium fumarate addition on rumen fermentationin vitro. British Journal of Nutrition, 1999, 81, 59-64.	1.2	90
13	Screening the activity of plants and spices for decreasing ruminal methane production in vitro. Animal Feed Science and Technology, 2008, 147, 36-52.	1.1	86
14	Some methodological and analytical considerations regarding application of the gas production technique. Animal Feed Science and Technology, 2007, 135, 139-156.	1.1	74
15	Assessment of nutritive value of cereal and legume straws based on chemical composition andin vitro digestibility. Journal of the Science of Food and Agriculture, 2005, 85, 1550-1557.	1.7	73
16	Application of the gas production technique to feed evaluation systems for ruminants. Animal Feed Science and Technology, 2005, 123-124, 561-578.	1.1	68
17	Comparison of mathematical models to describe disappearance curves obtained using the polyester bag technique for incubating feeds in the rumen.. Journal of Animal Science, 1999, 77, 1875.	0.2	66
18	Predicting the profile of nutrients available for absorption: from nutrient requirement to animal response and environmental impact. Animal, 2007, 1, 99-111.	1.3	58

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19	Effect of Sunflower and Marine Oils on Ruminal Microbiota, In vitro Fermentation and Digesta Fatty Acid Profile. Frontiers in Microbiology, 2017, 8, 1124.	1.5	57
20	Effect of dl-malate on mixed ruminal microorganism fermentation using the rumen simulation technique (RUSITEC). Animal Feed Science and Technology, 1999, 79, 279-288.	1.1	55
21	Dietary supplemental plant oils reduce methanogenesis from anaerobic microbial fermentation in the rumen. Scientific Reports, 2020, 10, 1613.	1.6	55
22	Effects of volatile fatty acid supply on their absorption and on water kinetics in the rumen of sheep sustained by intragastric infusions1. Journal of Animal Science, 2003, 81, 2609-2616.	0.2	52
23	Influence of exogenous enzymes in presence ofSalix babylonicaextract on digestibility, microbial protein synthesis and performance of lambs fed maize silage. Journal of Agricultural Science, 2015, 153, 732-742.	0.6	52
24	Essential Oils in Livestock: From Health to Food Quality. Antioxidants, 2021, 10, 330.	2.2	51
25	Estimating the extent of degradation of ruminant feeds from a description of their gas production profiles observedin vitro: comparison of models. British Journal of Nutrition, 2000, 83, 131-142.	1.2	50
26	An evaluation of different growth functions for describing the profile of live weight with time (age) in meat and egg strains of chicken. Poultry Science, 2003, 82, 1536-1543.	1.5	49
27	A review of mathematical functions for the analysis of growth in poultry. World's Poultry Science Journal, 2010, 66, 227-240.	1.4	47
28	The effect of earthworm (Eisenia foetida) meal with vermi-humus on growth performance, hematology, immunity, intestinal microbiota, carcass characteristics, and meat quality of broiler chickens. Livestock Science, 2017, 202, 74-81.	0.6	45
29	Composition and in vitro digestibility of leaves and stems of grasses and legumes harvested from permanent mountain meadows at different stages of maturity. Journal of Animal and Feed Sciences, 1999, 8, 599-610.	0.4	45
30	Chemical composition and in vitro digestibility of some Spanish browse plant species. Journal of the Science of Food and Agriculture, 2004, 84, 197-204.	1.7	43
31	Assessment of the digestibility of some Mediterranean shrubs by in vitro techniques. Animal Feed Science and Technology, 2005, 119, 323-331.	1.1	43
32	In vitro rumen methane output of red clover and perennial ryegrass assayed using the gas production technique (GPT). Animal Feed Science and Technology, 2011, 168, 152-164.	1.1	43
33	Seasonal variations in the chemical composition and in vitro digestibility of some Spanish leguminous shrub species. Animal Feed Science and Technology, 2004, 115, 327-340.	1.1	41
34	Chemical Composition, In Vitro Digestibility and Rumen Fermentation Kinetics of Agro-Industrial By-Products. Animals, 2019, 9, 861.	1.0	41
35	Effects of inactivated and live cells of Saccharomyces cerevisiae on in vitro ruminal fermentation of diets with different forage:concentrate ratio. Journal of Agricultural Science, 2012, 150, 271-283.	0.6	40
36	Osmotic pressure, water kinetics and volatile fatty acid absorption in the rumen of sheep sustained by intragastric infusions. British Journal of Nutrition, 1994, 71, 153-168.	1.2	39

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37	Influence of the addition of exogenous xylanase with or without pre-incubation on the in vitro ruminal fermentation of three fibrous feeds. Czech Journal of Animal Science, 2016, 61, 262-272.	0.5	38
38	Comparative digestibility and digesta flow kinetics in two breeds of sheep. Animal Science, 1998, 66, 389-396.	1.3	37
39	Flexible alternatives to the Gompertz equation for describing growth with age in turkey hens. Poultry Science, 2010, 89, 371-378.	1.5	37
40	Influence of barley grain particle size and treatment with citric acid on digestibility, ruminal fermentation and microbial protein synthesis in Holstein calves. Animal, 2017, 11, 1295-1302.	1.3	37
41	The use of the rumen degradation characteristics of hay as predictors of its voluntary intake by sheep. Animal Science, 1991, 52, 133-139.	1.3	35
42	Screening Plants and Plant Products for Methane Inhibitors. , 2010, , 191-231.		35
43	Chemical composition and digestibility of some browse plant species collected from Algerian arid rangelands. Spanish Journal of Agricultural Research, 2012, 10, 88.	0.3	35
44	Comparative evaluation of mathematical functions to describe growth and efficiency of phosphorus utilization in growing pigs1. Journal of Animal Science, 2007, 85, 2498-2507.	0.2	34
45	Concentrate plus ground barley straw pellets can replace conventional feeding systems for light fattening lambs. Small Ruminant Research, 2014, 116, 137-143.	0.6	34
46	Influence of cultivar, sowing date and maturity at harvest on yield, digestibility, rumen fermentation kinetics and estimated feeding value of maize silage. Journal of Agricultural Science, 2013, 151, 740-753.	0.6	33
47	Effect of natural extracts of Salix babylonica and Leucaena leucocephala on nutrient digestibility and growth performance of lambs. Animal Feed Science and Technology, 2011, 170, 27-34.	1.1	32
48	InÂVitro Gas, Methane, and Carbon Dioxide Productions of High Fibrous Diet Incubated With Fecal Inocula From Horses in Response to the Supplementation With Different Live Yeast Additives. Journal of Equine Veterinary Science, 2016, 38, 64-71.	0.4	31
49	Comparative analysis of gas production profiles obtained with buffalo and sheep ruminal fluid as the source of inoculum. Animal Feed Science and Technology, 2005, 123-124, 51-65.	1.1	30
50	Effects of different levels of an enzyme mixture on in vitro gas production parameters of contrasting forages. Animal Feed Science and Technology, 2008, 146, 289-301.	1.1	30
51	On the analysis of Canadian Holstein dairy cow lactation curves using standard growth functions. Journal of Dairy Science, 2015, 98, 2701-2712.	1.4	30
52	On the two-compartment model for estimating the rate and extent of feed degradation in the rumen. Journal of Theoretical Biology, 1990, 146, 269-287.	0.8	29
53	Comparison of different in vitro and in situ methods to estimate the extent and rate of degradation of hays in the rumen. Animal Feed Science and Technology, 1998, 73, 99-113.	1.1	29
54	Nutritive evaluation of herbage from permanent meadows by near-infrared reflectance spectroscopy: 1. Prediction of chemical composition andin vitro digestibility. Journal of the Science of Food and Agriculture, 2005, 85, 1564-1571.	1.7	29

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55	Doseâ€“response effects of Rheum officinale root and Frangula alnus bark on ruminal methane production in vitro. Animal Feed Science and Technology, 2008, 145, 319-334.	1.1	29
56	Modelling the lactation curve of dairy cows using the differentials of growth functions. Journal of Agricultural Science, 2008, 146, 633-641.	0.6	29
57	Modifications of a gas production technique for assessing in vitro rumen methane production from feedstuffs. Animal Feed Science and Technology, 2011, 166-167, 163-174.	1.1	28
58	Inclusion of sugar beet pulp in cereal-based diets for fattening lambs. Small Ruminant Research, 2007, 71, 250-254.	0.6	27
59	Decrease of ruminal methane production in Rusitec fermenters through the addition of plant material from rhubarb (Rheum spp.) and alder buckthorn (Frangula alnus). Journal of Dairy Science, 2010, 93, 3755-3763.	1.4	27
60	Relationships between chewing behavior, digestibility, and digesta passage kinetics in steers fed oat hay at restricted and ad libitum intakes1. Journal of Animal Science, 2011, 89, 1873-1880.	0.2	27
61	A comparative study of ruminal activity in Churra and Merino sheep offered alfalfa hay. Animal Science, 1997, 65, 121-128.	1.3	26
62	Short- to medium-term effects of consumption of quebracho tannins on saliva production and composition in sheep and goats1. Journal of Animal Science, 2013, 91, 1341-1349.	0.2	26
63	Degradability of parenchyma and sclerenchyma cell walls isolated at different developmental stages from a newly extended maize internode. Acta Botanica Neerlandica, 1993, 42, 165-174.	1.0	25
64	Comparison between analytical methods and biological assays for the assessment of tannin-related antinutritive effects in some Spanish browse species. Journal of the Science of Food and Agriculture, 2004, 84, 1349-1356.	1.7	25
65	A meta-analysis of the effects of dietary copper, molybdenum, and sulfur on plasma and liver copper, weight gain, and feed conversion in growing-finishing cattle1. Journal of Animal Science, 2013, 91, 5714-5723.	0.2	25
66	Performance of crossbred dairy Friesian calves fed two levels ofSaccharomyces cerevisiae: intake, digestion, ruminal fermentation, blood parameters and faecal pathogenic bacteria. Journal of Agricultural Science, 2016, 154, 1488-1498.	0.6	25
67	Nutritive evaluation of foliage from fodder trees and shrubs characteristic of Algerian arid and semi-arid areas. Journal of Animal and Feed Sciences, 2012, 21, 521-536.	0.4	25
68	Correcting the calculation of extent of degradation to account for particulate matter loss at zero time when applying the polyester bag method.. Journal of Animal Science, 1999, 77, 3385.	0.2	24
69	In vitro and in situ techniques for estimating digestibility.. , 2005, , 87-121.		24
70	A comparison of the Schumacher with other functions for describing growth in pigs. Animal Feed Science and Technology, 2008, 143, 314-327.	1.1	23
71	Meta-analysis of phosphorus balance data from growing pigs. Journal of Animal Science, 2007, 85, 1953-1961.	0.2	22
72	Influence of dietary supplementation with sunflower oil and quebracho tannins on growth performance and meat fatty acid profile of Awassi lambs. Animal Feed Science and Technology, 2018, 235, 97-104.	1.1	22

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73	Comparison of sample preparation methods for the determination of the rumen degradation characteristics of fresh and ensiled forages by the nylon bag technique. Animal Science, 1995, 60, 439-450.	1.3	21
74	Technical note: A proposed method to determine the extent of degradation of a feed in the rumen from the degradation profile obtained with the in vitro gas production technique using feces as the inoculum1. Journal of Animal Science, 2004, 82, 733-746.	0.2	21
75	Evaluation of a mechanistic lactation model using cow, goat and sheep data. Journal of Agricultural Science, 2010, 148, 249-262.	0.6	21
76	Influence of nitrogen source on the fermentation of fibre from barley straw and sugarbeet pulp by ruminal micro-organismsin vitro. British Journal of Nutrition, 2001, 86, 717-724.	1.2	20
77	A general compartmental model for interpreting gas production profiles. Animal Feed Science and Technology, 2005, 123-124, 473-485.	1.1	20
78	In vitro digestibility and fermentation kinetics of some browse plants using sheep or goat ruminal fluid as the source of inoculum. Animal Feed Science and Technology, 2008, 147, 90-104.	1.1	20
79	Tree leaves of Salix babylonica extract as a natural anthelmintic for small-ruminant farms in a semiarid region in Mexico. Agroforestry Systems, 2017, 91, 111-122.	0.9	20
80	Feed efficiency and the liver proteome of fattening lambs are modified by feed restriction during the suckling period. Animal, 2018, 12, 1838-1846.	1.3	20
81	Letters to the Editors. British Journal of Nutrition, 1994, 71, 135-137.	1.2	19
82	A comparative evaluation of functions for the analysis of growth in male broilers. Journal of Agricultural Science, 2003, 140, 451-459.	0.6	19
83	Influence of harvest season, cutting frequency and nitrogen fertilization of mountain meadows on yield, floristic composition and protein content of herbage. Revista Brasileira De Zootecnia, 2009, 38, 596-604.	0.3	19
84	Environmental efficiency of Saccharomyces cerevisiae on methane production in dairy and beef cattle via a meta-analysis. Environmental Science and Pollution Research, 2019, 26, 3651-3658.	2.7	19
85	Effects of carrier matrix and dosing frequency on digestive kinetics of even-chain alkanes and implications on herbage intake and rate of passage studies. Journal of the Science of Food and Agriculture, 2004, 84, 1562-1570.	1.7	18
86	Effects of xylanase supplementation on feed intake, digestibility and ruminal fermentation in Rambouillet sheep. Journal of Agricultural Science, 2016, 154, 1110-1117.	0.6	16
87	Non-linear functions in animal nutrition.. , 2008, , 47-88.		16
88	The effect of method of forage conservation and harvest season on the rumen degradation of forages harvested from permanent mountain meadows. Animal Science, 1991, 53, 177-182.	1.3	15
89	Effects of the inclusion of sodium bicarbonate and sugar beet pulp in the concentrate for fattening lambs on acidâ€“base status and meat characteristics. Meat Science, 2007, 77, 696-702.	2.7	15
90	Sensitivity of sheep intestinal lactic acid bacteria to secondary compounds extracted from Acacia saligna leaves. Animal Feed Science and Technology, 2010, 161, 85-93.	1.1	15

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91	Effect of treating olive cake with fibrolytic enzymes on feed intake, digestibility and performance in growing lambs. Animal Feed Science and Technology, 2020, 261, 114405.	1.1	15
92	Comparison of laboratory methods for predicting digestibility of hay in sheep. Small Ruminant Research, 1994, 14, 9-17.	0.6	14
93	Analysis of Methane. , 2007, , 1-13.		14
94	Comparison of energy evaluation systems and a mechanistic model for milk production by dairy cattle offered fresh grass-based diets. Animal Feed Science and Technology, 2008, 143, 203-219.	1.1	14
95	A comparative evaluation of functions for partitioning nitrogen and amino acid intake between maintenance and growth in broilers. Journal of Agricultural Science, 2008, 146, 163-170.	0.6	14
96	In vitro rumen methane output of grasses and grass silages differing in fermentation characteristics using the gasâ€production technique (<scp>GPT</scp>). Grass and Forage Science, 2013, 68, 228-244.	1.2	14
97	Effects of Hybrid and Grain Maturity Stage on the Ruminal Degradation and the Nutritive Value of Maize Forage for Silage. Agriculture (Switzerland), 2020, 10, 251.	1.4	14
98	Rumen degradation of the main forage species harvested from permanent mountain meadows in North-western Spain. Journal of Agricultural Science, 1991, 117, 363-369.	0.6	13
99	Comparative digestion of herbage by two breeds of sheep: effects of grass maturity stage and level of intake. Animal Science, 2001, 73, 513-522.	1.3	13
100	Feeding quebracho tannins to sheep enhances rumen fermentative activity to degrade browse shrubs. Animal Feed Science and Technology, 2009, 149, 1-15.	1.1	13
101	A Bayesian approach to analyze energy balance data from lactating dairy cows. Journal of Dairy Science, 2011, 94, 2520-2531.	1.4	13
102	Evaluation of three medicinal plants for methane production potential, fiber digestion and rumen fermentation in vitro. Energy Procedia, 2017, 119, 632-641.	1.8	13
103	Aquatic plants and macroalgae as potential feed ingredients in ruminant diets. Journal of Applied Phycology, 2017, 29, 449-458.	1.5	13
104	Prediction of gas production kinetic parameters of forages by chemical composition and near infrared reflectance spectroscopy. Animal Feed Science and Technology, 2005, 123-124, 487-499.	1.1	12
105	Effect of saliva from sheep that have ingested quebracho tannins on the in vitro rumen fermentation activity to digest tannin-containing shrubs. Animal Feed Science and Technology, 2011, 163, 77-83.	1.1	12
106	Replacing Soybean Meal with Urea in Diets for Heavy Fattening Lambs: Effects on Growth, Metabolic Profile and Meat Quality. Animals, 2019, 9, 974.	1.0	12
107	A derivation and evaluation of the von Bertalanffy equation for describing growth in broilers over time. Journal of Animal and Feed Sciences, 2002, 11, 109-125.	0.4	12
108	A comparative evaluation of functions for describing the relationship between live-weight gain and metabolizable energy intake in turkeys. Journal of Agricultural Science, 2004, 142, 691-695.	0.6	11

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109	Effects of the addition of some medicinal plants on methane production in a rumen simulating fermenter (RUSITEC). International Congress Series, 2006, 1293, 172-175.	0.2	11
110	Effects of the inclusion of flaxseed and quercetin in the diet of fattening lambs on ruminal microbiota,in vitrofermentation and biohydrogenation of fatty acids. Journal of Agricultural Science, 2016, 154, 542-552.	0.6	11
111	Grain grinding size of cereals in complete pelleted diets for growing lambs: Effects on ruminal microbiota and fermentation. Small Ruminant Research, 2018, 159, 38-44.	0.6	11
112	Changes in phytase activity, phosphorus and phytate contents during grain germination of barley (Hordeum vulgare L.) cultivars. Agroforestry Systems, 2020, 94, 1151-1159.	0.9	11
113	Digestion, growth performance and caecal fermentation in growing rabbits fed diets containing foliage of browse trees. World Rabbit Science, 2016, 24, 283.	0.1	11
114	Effect of dietary phytase supplementation on greenhouse gas emissions from soil after swine manure application. Journal of Cleaner Production, 2017, 166, 1122-1130.	4.6	10
115	Risk assessment of antimicrobial resistance along the food chain through cultureâ€independent methodologies. EFSA Journal, 2018, 16, e160811.	0.9	10
116	Digestibility, nitrogen balance and weight gain in sheep fed with diets supplemented with different seaweeds. Journal of Applied Phycology, 2019, 31, 3255-3263.	1.5	10
117	Effects of supplemental plant oils on rumen bacterial community profile and digesta fatty acid composition in a continuous culture system (RUSITEC). Anaerobe, 2020, 61, 102143.	1.0	10
118	Estimation of Tunisian Greenhouse Gas Emissions from Different Livestock Species. Agriculture (Switzerland), 2020, 10, 562.	1.4	10
119	Application of a kinetic model to describe phosphorus metabolism in pigs fed a diet with a microbial phytase. Journal of Agricultural Science, 2010, 148, 277-286.	0.6	9
120	Modeling the efficiency of phosphorus utilization in growing pigs1. Journal of Animal Science, 2011, 89, 2774-2781.	0.2	9
121	Volatile fatty acids and methane production from browse species of Algerian arid and semi-arid areas. Journal of Applied Animal Research, 2018, 46, 44-49.	0.4	9
122	Grain grinding size of cereals in complete pelleted diets for growing lambs: Effects on animal performance, carcass and meat quality traits. Meat Science, 2019, 157, 107874.	2.7	9
123	Prediction of energy supply in ruminants, with emphasis on forages.. , 0, , 63-94.		9
124	Nutritive evaluation of herbage from permanent meadows by near-infrared reflectance spectroscopy: 2. Prediction of crude protein and dry matter degradability. Journal of the Science of Food and Agriculture, 2005, 85, 1572-1579.	1.7	8
125	Application of the law of diminishing returns to estimate maintenance requirement for amino acids and their efficiency of utilization for accretion in young chicks. Journal of Agricultural Science, 2009, 147, 383-390.	0.6	8
126	Vegetable oil soapstocks reduce methane production and modify ruminal fermentation. Animal Feed Science and Technology, 2012, 176, 40-46.	1.1	8

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127	Effect of sunflower oil supplementation and milking frequency reduction on sheep milk production and composition1. Journal of Animal Science, 2013, 91, 446-454.	0.2	8
128	Calcium and phosphorus utilization in growing sheep supplemented with dicalcium phosphate. Journal of Agricultural Science, 2013, 151, 424-433.	0.6	8
129	Influence of Salix babylonica and Leucaena leucocephala leaf extracts on ruminal fermentation characteristics, urinary purine derivative excretion and microbial protein synthesis of lambs. Livestock Science, 2014, 163, 80-84.	0.6	8
130	Effect of milking frequency and Î±-tocopherol plus selenium supplementation on sheep milk lipid composition and oxidative stability. Journal of Dairy Science, 2019, 102, 3097-3109.	1.4	8
131	Effect of age of regrowth, chemical composition and secondary metabolites on the digestibility of Leucaena leucocephala in the Cauto Valley, Cuba. Agroforestry Systems, 2020, 94, 1247-1253.	0.9	8
132	In vitro screening of Algerian steppe browse plants for digestibility, rumen fermentation profile and methane mitigation. Agroforestry Systems, 2020, 94, 1433-1443.	0.9	8
133	In vitro assessment of nutritive value of date palm by-products as feed for ruminants. Emirates Journal of Food and Agriculture, 2016, 28, 695.	1.0	8
134	The use of even-chain alkanes sprayed onto herbage as rate of passage markers in goats. Livestock Science, 2006, 100, 195-202.	0.6	7
135	Rumen phosphorus metabolism in sheep. Journal of Agricultural Science, 2009, 147, 391-398.	0.6	7
136	Sensitivity of ruminal bacteria isolates of sheep, cattle and buffalo to some heavy metals. Animal Feed Science and Technology, 2011, 163, 143-149.	1.1	7
137	Effects of rhubarb (Rheum spp.) and frangula (Frangula alnus) on intake, digestibility and ruminal fermentation of different diets and feedstuffs by sheep. Animal Feed Science and Technology, 2012, 176, 131-139.	1.1	7
138	Early feed restriction of lambs modifies ileal epimural microbiota and affects immunity parameters during the fattening period. Animal, 2018, 12, 2115-2122.	1.3	7
139	Early Feed Restriction Programs Metabolic Disorders in Fattening Merino Lambs. Animals, 2018, 8, 83.	1.0	7
140	Effect of a mixed silage of king grass (Cenchrus purpureus) and forage legumes (Leucaena) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Tc Production Science, 2019, 59, 2259.	0.6	7
141	Biomass production and nutritive value of Kenaf (Hibiscus cannabinus) at various stages of growth. Agroforestry Systems, 2020, 94, 1171-1178.	0.9	7
142	Application of Meta-Analysis and Machine Learning Methods to the Prediction of Methane Production from In Vitro Mixed Ruminal Micro-Organism Fermentation. Animals, 2020, 10, 720.	1.0	7
143	Fattening lambs with divergent residual feed intakes and weight gains: Unravelling mechanisms driving feed efficiency. Animal Feed Science and Technology, 2021, 273, 114821.	1.1	7
144	Effect of omitting one or two milkings weekly on lactational performance in dairy ewes. Journal of Dairy Research, 2006, 73, 207-215.	0.7	6

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145	Feed intake, digestibility, and carcass characteristics of lambs fed a diet supplemented with soluble fibre. Animal Production Science, 2010, 50, 45.	0.6	6
146	Phosphorus utilization in broilers fed with diets supplemented with different feed ingredients. Scientia Agricola, 2019, 76, 18-23.	0.6	6
147	Dairy cow nutrition in organic farming systems. Comparison with the conventional system. Animal, 2019, 13, 1084-1093.	1.3	6
148	A strategy for modelling heavy-tailed greenhouse gases (GHG) data using the generalised extreme value distribution: Are we overestimating GHG flux using the sample mean?. Atmospheric Environment, 2020, 237, 117500.	1.9	6
149	<i>In situ</i> degradability of soyabean meal treated with <i>Acacia saligna</i> and <i>Atriplex halimus</i> extracts in sheep. Journal of Animal and Feed Sciences, 2012, 21, 447-457.	0.4	6
150	Simplified estimation of forage degradability in the rumen assuming zero-order degradation kinetics. Journal of Agricultural Science, 2009, 147, 225-240.	0.6	5
151	Alternative growth functions for predicting body, carcass, and breast weight in ducks: Lomolino equation and extreme value function. Poultry Science, 2014, 93, 1031-1042.	1.5	5
152	Mathematical descriptions of indeterminate growth. Journal of Theoretical Biology, 2017, 425, 88-96.	0.8	5
153	Models Based on the Mitscherlich Equation for Describing Typical and Atypical Gas Production Profiles Obtained from In Vitro Digestibility Studies Using Equine Faecal Inoculum. Animals, 2020, 10, 308.	1.0	5
154	Effects of the Harvest Stage of Maize Hybrids on the Chemical Composition of Plant Fractions: An Analysis of the Different Types of Silage. Agriculture (Switzerland), 2021, 11, 786.	1.4	5
155	Nutritive value of herbage from mountain hay meadow managed under traditional and intensive harvest systems as affected by nitrogen fertilisation and time of cutting. Animal Production Science, 2011, 51, 549.	0.6	4
156	An extended model of phosphorus metabolism in growing ruminants1. Journal of Animal Science, 2011, 89, 4151-4162.	0.2	4
157	In vitro methods as predictors of voluntary intake and digestibility of hays fed to sheep. Australian Journal of Agricultural Research, 2002, 53, 471.	1.5	4
158	Effect of sodium bicarbonate supplementation on feed intake, digestibility, digesta kinetics, nitrogen balance and ruminal fermentation in young fattening lambs. Spanish Journal of Agricultural Research, 2009, 7, 330.	0.3	4
159	Overview and application of the Mitscherlich equation and its extensions to estimate the soil nitrogen pool fraction associated with crop yield and nitrous oxide emission. Advances in Agronomy, 2022, , 269-295.	2.4	4
160	Models for interpretingin vitrogas production profiles from ruminant foods. BSAP Occasional Publication, 1998, 22, 79-80.	0.0	3
161	Effect of feed block supply on the ruminal ecosystem of goats grazing shrub land in Tunisia. Animal Feed Science and Technology, 2006, 127, 1-12.	1.1	3
162	Effects of pre-incubation in sheep and goat saliva on in vitro rumen digestion of tanniferous browse foliage. Journal of Agricultural Science, 2013, 151, 898-906.	0.6	3

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163	Models for the Study of Whole-Body Glucose Kinetics: A Mathematical Synthesis. , 2013, 2013, 1-16.		3
164	Comparison of three 15N methods to correct for microbial contamination when assessing in situ protein degradability of fresh forages1. Journal of Animal Science, 2014, 92, 5053-5062.	0.2	3
165	Some novel growth functions and their application with reference to growth in ostrich1. Journal of Animal Science, 2015, 93, 2641-2652.	0.2	3
166	A sinusoidal equation as an alternative to classical growth functions to describe growth profiles in turkeys. Acta Scientiarum - Animal Sciences, 2018, 41, 45990.	0.3	3
167	Elementary functions modified for seasonal effects to describe growth in freshwater fishâœ°. Journal of Theoretical Biology, 2019, 461, 133-144.	0.8	3
168	New Insights into Modelling Bacterial Growth with Reference to the Fish Pathogen Flavobacterium psychrophilum. Animals, 2020, 10, 435.	1.0	3
169	An Illustrative Analysis of Atypical Gas Production Profiles Obtained from In Vitro Digestibility Studies Using Fecal Inoculum. Animals, 2021, 11, 1069.	1.0	3
170	Models to interpret degradation profiles obtained from in vitro and in situ incubation of ruminant feeds.. , 2000, , 73-86.		3
171	Kinetic models for the study of phosphorus metabolism in ruminants and monogastrics.. , 0, , 18-44.		3
172	Nutrition Discussion Forum. British Journal of Nutrition, 1997, 78, 1031-1044.	1.2	2
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