

James France

List of Publications by Year in descending order

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72
papers

1,412
citations

393982

19
h-index

360668

35
g-index

73
all docs

73
docs citations

73
times ranked

1436
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Description of Equine Somatic Growth Using Nonlinear Functions. <i>Journal of Equine Veterinary Science</i> , 2022, 111, 103893.	0.4	1
2	Modelling growth in dairy heifers based on linear body measurements (withers height) using non-linear functions. <i>Journal of Dairy Research</i> , 2022, , 1-4.	0.7	0
3	Antimethanogenic effects of nitrate supplementation in cattle: A meta-analysis. <i>Journal of Dairy Science</i> , 2020, 103, 11375-11385.	1.4	27
4	Introducing a sinusoidal equation to describe lactation curves for cumulative milk yield and composition in Holstein cows. <i>Journal of Dairy Research</i> , 2020, 87, 220-225.	0.7	0
5	Application of Meta-Analysis and Machine Learning Methods to the Prediction of Methane Production from In Vitro Mixed Ruminal Micro-Organism Fermentation. <i>Animals</i> , 2020, 10, 720.	1.0	7
6	Modelling cumulative egg production in laying hens and parent stocks of broiler chickens using classical growth functions. <i>British Poultry Science</i> , 2019, 60, 564-569.	0.8	2
7	Phosphorus utilization in broilers fed with diets supplemented with different feed ingredients. <i>Scientia Agricola</i> , 2019, 76, 18-23.	0.6	6
8	Elementary functions modified for seasonal effects to describe growth in freshwater fish. <i>Journal of Theoretical Biology</i> , 2019, 461, 133-144.	0.8	3
9	Feed efficiency and the liver proteome of fattening lambs are modified by feed restriction during the suckling period. <i>Animal</i> , 2018, 12, 1838-1846.	1.3	20
10	An isotope dilution model for partitioning of phenylalanine and tyrosine uptake by the liver of lactating dairy cows. <i>Journal of Theoretical Biology</i> , 2018, 444, 100-107.	0.8	4
11	Exploration of bimodal kinetics in marker digesta outflows using compartmental models. <i>Journal of Theoretical Biology</i> , 2018, 439, 226-231.	0.8	2
12	Dietary mannoheptulose does not alter glucose or lipid metabolism in adult Labrador Retrievers. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2018, 102, e122-e131.	1.0	5
13	Mathematical models for response to amino acids: estimating the response of broiler chickens to branched-chain amino acids using support vector regression and neural network models. <i>Neural Computing and Applications</i> , 2018, 30, 2499-2508.	3.2	6
14	A sinusoidal function and the Nelder-Mead simplex algorithm applied to growth data from broiler chickens. <i>Poultry Science</i> , 2018, 97, 227-235.	1.5	3
15	Short communication: Antimethanogenic effects of 3-nitrooxypropanol depend on supplementation dose, dietary fiber content, and cattle type. <i>Journal of Dairy Science</i> , 2018, 101, 9041-9047.	1.4	88
16	Mathematical descriptions of indeterminate growth. <i>Journal of Theoretical Biology</i> , 2017, 425, 88-96.	0.8	5
17	A mechanistic model of small intestinal starch digestion and glucose uptake in the cow. <i>Journal of Dairy Science</i> , 2017, 100, 4650-4670.	1.4	15
18	Further assessment of the protozoal contribution to the nutrition of the ruminant animal. <i>Journal of Theoretical Biology</i> , 2017, 416, 8-15.	0.8	6

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19	The Contribution of Mathematical Modeling to Understanding Dynamic Aspects of Rumen Metabolism. <i>Frontiers in Microbiology</i> , 2016, 7, 1820.	1.5	37
20	Broiler responses to digestible threonine at different ages: a neural networks approach. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2016, 100, 738-747.	1.0	2
21	Prediction of portal and hepatic blood flow from intake level data in cattle. <i>Journal of Dairy Science</i> , 2016, 99, 9238-9253.	1.4	7
22	Technical note: Bayesian calibration of dynamic ruminant nutrition models. <i>Journal of Dairy Science</i> , 2016, 99, 6362-6370.	1.4	7
23	Blue tongue “ A modelling examination of fundamentals “ Seasonality and chaos. <i>Journal of Theoretical Biology</i> , 2016, 403, 17-29.	0.8	2
24	Models for predicting enteric methane emissions from dairy cows in North America, Europe, and Australia and New Zealand. <i>Global Change Biology</i> , 2016, 22, 3039-3056.	4.2	103
25	Broiler responses to digestible total sulphur amino acids at different ages: a neural network approach. <i>Journal of Applied Animal Research</i> , 2016, 44, 315-322.	0.4	6
26	A model of milk production in lactating dairy cows in relation to energy and nitrogen dynamics. <i>Journal of Dairy Science</i> , 2016, 99, 1605-1618.	1.4	16
27	Modeling Greenhouse Gas Emissions from Enteric Fermentation. <i>Advances in Agricultural Systems Modeling</i> , 2015, , 173-195.	0.3	4
28	Dietary Mannoheptulose Does Not Significantly Alter Daily Energy Expenditure in Adult Labrador Retrievers. <i>PLoS ONE</i> , 2015, 10, e0143324.	1.1	10
29	A Kinetic Model of Whole-Body Glucose Metabolism with Reference to the Domestic Dog (<i>Canis lupus</i>) Tj ETQq1 1 0,784314,rgBT /Over	0.9	1
30	Multivariate and univariate analysis of energy balance data from lactating dairy cows. <i>Journal of Dairy Science</i> , 2015, 98, 4012-4029.	1.4	50
31	Estimating enteric methane emissions from Chilean beef fattening systems using a mechanistic model. <i>Journal of Agricultural Science</i> , 2015, 153, 114-123.	0.6	1
32	Dietary mannoheptulose has differential effects on fasting and post-prandial glucose oxidation in Labrador Retrievers. <i>Journal of Applied Animal Research</i> , 2015, 43, 357-365.	0.4	9
33	A meta-analysis of the effects of nonphytate phosphorus on broiler performance and tibia ash concentration. <i>Poultry Science</i> , 2015, 94, 2753-2762.	1.5	22
34	Mannoheptulose has differential effects on fasting and postprandial energy expenditure and respiratory quotient in adult Beagle dogs fed diets of different macronutrient contents. <i>Journal of Nutritional Science</i> , 2014, 3, e17.	0.7	20
35	Comparison of three 15N methods to correct for microbial contamination when assessing in situ protein degradability of fresh forages1. <i>Journal of Animal Science</i> , 2014, 92, 5053-5062.	0.2	3
36	Evaluation of broiler chicks responses to protein, methionine and tryptophan using neural network models. <i>Journal of Applied Animal Research</i> , 2014, 42, 327-332.	0.4	3

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37	Quantifying body water kinetics and fecal and urinary water output from lactating Holstein dairy cows. <i>Journal of Dairy Science</i> , 2014, 97, 6177-6195.	1.4	24
38	A dynamic mechanistic model of lactic acid metabolism in the rumen. <i>Journal of Dairy Science</i> , 2014, 97, 2398-2414.	1.4	12
39	Evaluation of the SF6 tracer technique for estimating methane emission rates with reference to dairy cows using a mechanistic model. <i>Journal of Theoretical Biology</i> , 2014, 353, 1-8.	0.8	7
40	Effects of phytase supplementation on phosphorus retention in broilers and layers: A meta-analysis. <i>Poultry Science</i> , 2014, 93, 1981-1992.	1.5	41
41	An isotope dilution model for partitioning phenylalanine and tyrosine uptake by the mammary gland of lactating dairy cows. <i>Journal of Theoretical Biology</i> , 2014, 359, 54-60.	0.8	13
42	Effects of diet and exercise interventions on diabetes risk factors in adults without diabetes: meta-analyses of controlled trials. <i>Diabetology and Metabolic Syndrome</i> , 2014, 6, 127.	1.2	15
43	Bootstrapped neural network models for analyzing the responses of broiler chicks to dietary protein and branched chain amino acids. <i>Canadian Journal of Animal Science</i> , 2014, 94, 79-85.	0.7	6
44	Interpreting experimental data on egg production—Applications of dynamic differential equations. <i>Poultry Science</i> , 2013, 92, 2498-2508.	1.5	0
45	Calcium and phosphorus utilization in growing sheep supplemented with dicalcium phosphate. <i>Journal of Agricultural Science</i> , 2013, 151, 424-433.	0.6	8
46	Models for the Study of Whole-Body Glucose Kinetics: A Mathematical Synthesis. , 2013, 2013, 1-16.		3
47	Application of the law of diminishing returns for partitioning metabolizable energy and crude protein intake between maintenance and growth in growing male and female broiler breeder pullets. <i>Journal of Agricultural Science</i> , 2011, 149, 385-394.	0.6	8
48	Predicting carcass energy content and composition in broilers using the group method of data handling-type neural networks. <i>Journal of Agricultural Science</i> , 2011, 149, 249-254.	0.6	11
49	Evaluation of a mechanistic lactation model using cow, goat and sheep data. <i>Journal of Agricultural Science</i> , 2010, 148, 249-262.	0.6	21
50	Application of a kinetic model to describe phosphorus metabolism in pigs fed a diet with a microbial phytase. <i>Journal of Agricultural Science</i> , 2010, 148, 277-286.	0.6	9
51	Reply — Simplified estimation of forage degradability in the rumen assuming zero-order kinetics and assumptions underlying the in situ polyester-bag technique. <i>Journal of Agricultural Science</i> , 2010, 148, 119-122.	0.6	2
52	Simulating the effects of grassland management and grass ensiling on methane emission from lactating cows. <i>Journal of Agricultural Science</i> , 2010, 148, 55-72.	0.6	43
53	Modelling growth and body composition in fish nutrition: where have we been and where are we going?. <i>Aquaculture Research</i> , 2010, 41, 161-181.	0.9	121
54	Evaluation of enteric methane prediction equations for dairy cows used in whole farm models. <i>Global Change Biology</i> , 2010, 16, 3246-3256.	4.2	105

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55	A review of mathematical functions for the analysis of growth in poultry. <i>World's Poultry Science Journal</i> , 2010, 66, 227-240.	1.4	47
56	Rumen phosphorus metabolism in sheep. <i>Journal of Agricultural Science</i> , 2009, 147, 391-398.	0.6	7
57	Simplified estimation of forage degradability in the rumen assuming zero-order degradation kinetics. <i>Journal of Agricultural Science</i> , 2009, 147, 225-240.	0.6	5
58	Application of the law of diminishing returns to estimate maintenance requirement for amino acids and their efficiency of utilization for accretion in young chicks. <i>Journal of Agricultural Science</i> , 2009, 147, 383-390.	0.6	8
59	Aspects of rumen microbiology central to mechanistic modelling of methane production in cattle. <i>Journal of Agricultural Science</i> , 2008, 146, 213-233.	0.6	179
60	Modelling the lactation curve of dairy cows using the differentials of growth functions. <i>Journal of Agricultural Science</i> , 2008, 146, 633-641.	0.6	29
61	Mathematical modelling in animal nutrition: a centenary review. <i>Journal of Agricultural Science</i> , 2008, 146, 123-142.	0.6	49
62	Farming systems methodology for efficient resource management at the farm level: a review from an Indian perspective. <i>Journal of Agricultural Science</i> , 2008, 146, 493-505.	0.6	11
63	Modelling bovine spongiform encephalopathy. <i>Journal of Agricultural Science</i> , 2008, 146, 183-194.	0.6	5
64	Phosphorus kinetics in lambs fed different levels of dicalcium phosphate. <i>Journal of Agricultural Science</i> , 2007, 145, 509-516.	0.6	8
65	Effect of raw or roasted whole soybeans on early lactational performance and ruminal and blood metabolites in Iranian cows. <i>Journal of Agricultural Science</i> , 2007, 145, 529-537.	0.6	3
66	Simulation of milk production by dairy cows fed sugarcane top-based diets with locally available supplements under Indian conditions. <i>Journal of Agricultural Science</i> , 2005, 143, 217-229.	0.6	3
67	Comparison of two models of phosphorus flows in calves infected with <i>Cooperia punctata</i> . <i>Proceedings of the British Society of Animal Science</i> , 2005, 2005, 212-212.	0.0	0
68	A comparative evaluation of functions for describing the relationship between live-weight gain and metabolizable energy intake in turkeys. <i>Journal of Agricultural Science</i> , 2004, 142, 691-695.	0.6	11
69	Vascular Sources of Phenylalanine, Tyrosine, Lysine, and Methionine for Casein Synthesis in Lactating Goats. <i>Journal of Dairy Science</i> , 1999, 82, 362-377.	1.4	52
70	Model of Milk Protein Synthesis. A Mechanistic Model of Milk Protein Synthesis in the Lactating Bovine Mammary Gland. <i>Journal of Theoretical Biology</i> , 1997, 187, 363-378.	0.8	15
71	An isotope dilution model for partitioning leucine uptake by the bovine mammary gland. <i>Journal of Theoretical Biology</i> , 1995, 172, 369-377.	0.8	27
72	Further solutions to an isotope dilution model for partitioning phenylalanine and tyrosine between milk protein synthesis and other metabolic fates by the mammary gland of lactating dairy cows. <i>Journal of Agricultural Science</i> , 0, , 1-30.	0.6	0