

# Frank A M Tuyttens

## List of Publications by Year in descending order

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Version: 2024-02-01

120  
papers

3,804  
citations

109321

35  
h-index

155660

55  
g-index

120  
all docs

120  
docs citations

120  
times ranked

2994  
citing authors

#	ARTICLE	IF	CITATIONS
1	Do citizens and farmers interpret the concept of farm animal welfare differently?. <i>Livestock Science</i> , 2008, 116, 126-136.	1.6	274
2	The importance of straw for pig and cattle welfare: A review. <i>Applied Animal Behaviour Science</i> , 2005, 92, 261-282.	1.9	211
3	Observer bias in animal behaviour research: can we believe what we score, if we score what we believe?. <i>Animal Behaviour</i> , 2014, 90, 273-280.	1.9	176
4	Stocking density effects on broiler welfare: Identifying sensitive ranges for different indicators. <i>Poultry Science</i> , 2009, 88, 1536-1543.	3.4	150
5	Automatic monitoring of pig locomotion using image analysis. <i>Livestock Science</i> , 2014, 159, 141-148.	1.6	113
6	Citizens' Views on Farm Animal Welfare and Related Information Provision: Exploratory Insights from Flanders, Belgium. <i>Journal of Agricultural and Environmental Ethics</i> , 2010, 23, 551-569.	1.7	102
7	Societal concern related to stocking density, pen size and group size in farm animal production. <i>Livestock Science</i> , 2009, 123, 16-22.	1.6	94
8	Importance of outdoor shelter for cattle in temperate climates. <i>Livestock Science</i> , 2014, 159, 87-101.	1.6	78
9	Simplifying the Welfare Quality® assessment protocol for broiler chicken welfare. <i>Animal</i> , 2016, 10, 117-127.	3.3	68
10	Risk factors associated with keel bone and foot pad disorders in laying hens housed in aviary systems. <i>Poultry Science</i> , 2016, 95, 482-488.	3.4	66
11	Broiler chicken health, welfare and fluctuating asymmetry in organic versus conventional production systems. <i>Livestock Science</i> , 2008, 113, 123-132.	1.6	65
12	Opinion of Belgian Egg Farmers on Hen Welfare and Its Relationship with Housing Type. <i>Animals</i> , 2016, 6, 1.	2.3	65
13	Welfare, Health, and Hygiene of Laying Hens Housed in Furnished Cages and in Alternative Housing Systems. <i>Journal of Applied Animal Welfare Science</i> , 2005, 8, 211-226.	1.0	62
14	Specific characteristics of the aviary housing system affect plumage condition, mortality and production in laying hens. <i>Poultry Science</i> , 2015, 94, 2008-2017.	3.4	62
15	On the use of on-cow accelerometers for the classification of behaviours in dairy barns. <i>Research in Veterinary Science</i> , 2019, 125, 425-433.	1.9	59
16	Quantitative verification of the correspondence between the Welfare Quality® operational definition of farm animal welfare and the opinion of Flemish farmers, citizens and vegetarians. <i>Livestock Science</i> , 2010, 131, 108-114.	1.6	57
17	Determinants of consumer intention to purchase animal-friendly milk. <i>Journal of Dairy Science</i> , 2016, 99, 8304-8313.	3.4	55
18	Classification of ingestive-related cow behaviours using RumiWatch halter and neck-mounted accelerometers. <i>Applied Animal Behaviour Science</i> , 2019, 211, 9-16.	1.9	54

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19	Ramps and hybrid effects on keel bone and foot pad disorders in modified aviaries for laying hens. <i>Poultry Science</i> , 2016, 95, 2479-2488.	3.4	50
20	Heat stress in cows at pasture and benefit of shade in a temperate climate region. <i>International Journal of Biometeorology</i> , 2018, 62, 585-595.	3.0	50
21	The Concept of Farm Animal Welfare: Citizen Perceptions and Stakeholder Opinion in Flanders, Belgium. <i>Journal of Agricultural and Environmental Ethics</i> , 2012, 25, 79-101.	1.7	48
22	Different stressors elicit different responses in the salivary biomarkers cortisol, haptoglobin, and chromogranin A in pigs. <i>Research in Veterinary Science</i> , 2014, 97, 124-128.	1.9	48
23	Effect of surgical castration, immunocastration and chicory-diet on the meat quality and palatability of boars. <i>Meat Science</i> , 2013, 94, 402-407.	5.5	46
24	Effect of free-range access, shelter type and weather conditions on free-range use and welfare of slow-growing broiler chickens. <i>Applied Animal Behaviour Science</i> , 2017, 192, 15-23.	1.9	46
25	Calving and estrus detection in dairy cattle using a combination of indoor localization and accelerometer sensors. <i>Computers and Electronics in Agriculture</i> , 2020, 168, 105153.	7.7	45
26	Discerning Pig Screams in Production Environments. <i>PLoS ONE</i> , 2015, 10, e0123111.	2.5	45
27	Effects of free-range access on production parameters and meat quality, composition and taste in slow-growing broiler chickens. <i>Poultry Science</i> , 2016, 95, 2971-2978.	3.4	44
28	Broiler chickens dead on arrival: associated risk factors and welfare indicators. <i>Poultry Science</i> , 2017, 96, 259-265.	3.4	43
29	Bacteriological contamination, dirt, and cracks of eggshells in furnished cages and noncage systems for laying hens: An international on-farm comparison. <i>Poultry Science</i> , 2009, 88, 2442-2448.	3.4	42
30	Influence of breed and slaughter weight on boar taint prevalence in entire male pigs. <i>Animal</i> , 2011, 5, 1283-1289.	3.3	41
31	Internet of animals: characterisation of LoRa sub-6GHz off-body wireless channel in dairy barns. <i>Electronics Letters</i> , 2017, 53, 1281-1283.	1.0	41
32	Design of laying nests in furnished cages: influence of nesting material, nest box position and seclusion. <i>British Poultry Science</i> , 2005, 46, 9-15.	1.7	40
33	Impact of the separate pre-slaughter stages on broiler chicken welfare. <i>Poultry Science</i> , 2017, 96, 266-273.	3.4	40
34	Perching behaviour and perch height preference of laying hens in furnished cages varying in height. <i>British Poultry Science</i> , 2008, 49, 381-389.	1.7	39
35	A validated ultra-high performance liquid chromatography coupled to high resolution mass spectrometry analysis for the simultaneous quantification of the three known boar taint compounds. <i>Journal of Chromatography A</i> , 2012, 1239, 49-55.	3.7	37
36	Influence of nest seclusion and nesting material on pre-laying behaviour of laying hens. <i>Applied Animal Behaviour Science</i> , 2008, 112, 106-119.	1.9	36

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37	Effect of information provisioning on attitude toward surgical castration of male piglets and alternative strategies for avoiding boar taint. <i>Research in Veterinary Science</i> , 2011, 91, 327-332.	1.9	35
38	Pig producer attitude towards surgical castration of piglets without anaesthesia versus alternative strategies. <i>Research in Veterinary Science</i> , 2012, 92, 524-530.	1.9	35
39	Synthetic lying mats may improve lying comfort of gestating sows. <i>Applied Animal Behaviour Science</i> , 2008, 114, 76-85.	1.9	34
40	Effects of shelter type, early environmental enrichment and weather conditions on free-range behaviour of slow-growing broiler chickens. <i>Animal</i> , 2017, 11, 1046-1053.	3.3	33
41	Field experience with surgical castration with anaesthesia, analgesia, immunocastration and production of entire male pigs: performance, carcass traits and boar taint prevalence. <i>Animal</i> , 2015, 9, 500-508.	3.3	32
42	Effect of summer conditions and shade on the production and metabolism of Holstein dairy cows on pasture in temperate climate. <i>Animal</i> , 2015, 9, 1547-1558.	3.3	31
43	Assessment of welfare of Brazilian and Belgian broiler flocks using the Welfare Quality protocol. <i>Poultry Science</i> , 2015, 94, 1758-1766.	3.4	30
44	Effect of summer conditions and shade on behavioural indicators of thermal discomfort in Holstein dairy and Belgian Blue beef cattle on pasture. <i>Animal</i> , 2015, 9, 1536-1546.	3.3	28
45	Effect of post-hatch transportation duration and parental age on broiler chicken quality, welfare, and productivity. <i>Poultry Science</i> , 2016, 95, 1973-1979.	3.4	28
46	Glucocorticoid metabolites in rabbit faeces – Influence of environmental enrichment and cage size. <i>Physiology and Behavior</i> , 2011, 104, 469-473.	2.1	27
47	Broiler production in Flanders, Belgium: current situation and producers' opinions about animal welfare. <i>World's Poultry Science Journal</i> , 2014, 70, 343-354.	3.0	26
48	An automated positioning system for monitoring chickens' location: Effects of wearing a backpack on behaviour, leg health and production. <i>Applied Animal Behaviour Science</i> , 2018, 198, 83-88.	1.9	26
49	Belgian citizens' and broiler producers' perceptions of broiler chicken welfare in Belgium versus Brazil. <i>Poultry Science</i> , 2016, 95, 1555-1563.	3.4	25
50	Comparison of the inter- and intra-observer repeatability of three gait-scoring scales for sows. <i>Animal</i> , 2014, 8, 650-659.	3.3	24
51	Sensitivity of the Welfare Quality® broiler chicken protocol to differences between intensively reared indoor flocks: which factors explain overall classification?. <i>Animal</i> , 2017, 11, 244-253.	3.3	24
52	Trained-user opinion about Welfare Quality measures and integrated scoring of dairy cattle welfare. <i>Journal of Dairy Science</i> , 2017, 100, 6376-6388.	3.4	24
53	Mechanical nociception thresholds in lame sows: Evidence of hyperalgesia as measured by two different methods. <i>Veterinary Journal</i> , 2013, 198, 386-390.	1.7	23
54	Twelve Threats of Precision Livestock Farming (PLF) for Animal Welfare. <i>Frontiers in Veterinary Science</i> , 2022, 9, .	2.2	23

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55	Survey of egg farmers regarding the ban on conventional cages in the EU and their opinion of alternative layer housing systems in Flanders, Belgium. <i>Poultry Science</i> , 2016, 95, 715-725.	3.4	22
56	Feeding live Black Soldier Fly larvae ( <i>Hermetia illucens</i> ) to laying hens: effects on feed consumption, hen health, hen behavior, and egg quality. <i>Poultry Science</i> , 2021, 100, 101400.	3.4	22
57	Automated assessment of footpad dermatitis in broiler chickens at the slaughter-line: Evaluation and correspondence with human expert scores. <i>Poultry Science</i> , 2013, 92, 12-18.	3.4	21
58	Influence of soiling on boar taint in boars. <i>Meat Science</i> , 2011, 87, 175-179.	5.5	20
59	Assessment of Broiler Chicken Welfare in Southern Brazil. <i>Brazilian Journal of Poultry Science</i> , 2016, 18, 133-140.	0.7	20
60	Survey of egg producers on the introduction of alternative housing systems for laying hens in Flanders, Belgium. <i>Poultry Science</i> , 2011, 90, 941-950.	3.4	19
61	Effects of semi-group housing and floor type on pododermatitis, spinal deformation and bone quality in rabbit does. <i>Animal</i> , 2014, 8, 1728-1734.	3.3	19
62	Experimental characterisation of the off-body wireless channel at 2.4 GHz for dairy cows in barns and pastures. <i>Computers and Electronics in Agriculture</i> , 2016, 127, 593-605.	7.7	19
63	Survey among Belgian pig producers about the introduction of group housing systems for gestating sows <sup>1</sup> . <i>Journal of Animal Science</i> , 2011, 89, 845-855.	0.5	18
64	Behaviour, wounds, weight loss and adrenal weight of rabbit does as affected by semi-group housing. <i>Applied Animal Behaviour Science</i> , 2015, 172, 44-51.	1.9	18
65	Predicting the likelihood of developing boar taint: Early physical indicators in entire male pigs. <i>Meat Science</i> , 2012, 92, 382-385.	5.5	17
66	Characterization of the On-Body Path Loss at 2.45 GHz and Energy Efficient WBAN Design for Dairy Cows. <i>IEEE Transactions on Antennas and Propagation</i> , 2016, 64, 4848-4858.	5.1	17
67	Factors affecting mechanical nociceptive thresholds in healthy sows. <i>Veterinary Anaesthesia and Analgesia</i> , 2016, 43, 343-355.	0.6	17
68	On farm intervention studies on reduction of boar taint prevalence: Feeding strategies, presence of gilts and time in lairage. <i>Research in Veterinary Science</i> , 2018, 118, 508-516.	1.9	17
69	The sensitivity of Flemish citizens to androstenone: Influence of gender, age, location and smoking habits. <i>Meat Science</i> , 2011, 88, 548-552.	5.5	16
70	The effect of the MC4R gene on boar taint compounds, sexual maturity and behaviour in growing-finishing boars and gilts. <i>Animal</i> , 2015, 9, 1688-1697.	3.3	16
71	Impact of transportation duration on stress responses in day-old chicks from young and old breeders. <i>Research in Veterinary Science</i> , 2017, 112, 172-176.	1.9	16
72	Dehydration indicators for broiler chickens at slaughter. <i>Poultry Science</i> , 2013, 92, 612-619.	3.4	15

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73	Remedying Contact Dermatitis in Broiler Chickens with Novel Flooring Treatments. <i>Animals</i> , 2020, 10, 1761.	2.3	15
74	Consumer acceptance of minced meat patties from boars in four European countries. <i>Meat Science</i> , 2018, 137, 235-243.	5.5	14
75	Assessing keel bone damage in laying hens by palpation: effects of assessor experience on accuracy, inter-rater agreement and intra-rater consistency. <i>Poultry Science</i> , 2019, 98, 514-521.	3.4	14
76	Husbandry Conditions and Welfare Outcomes in Organic Egg Production in Eight European Countries. <i>Animals</i> , 2020, 10, 2102.	2.3	14
77	Factors influencing farmers' responses to welfare legislation: A case study of gestation sow housing in Flanders (Belgium). <i>Livestock Science</i> , 2008, 116, 289-299.	1.6	13
78	Opinion of applied ethologists on expectation bias, blinding observers and other debiasing techniques. <i>Applied Animal Behaviour Science</i> , 2016, 181, 27-33.	1.9	13
79	Effects of communal rearing and group size on breeding rabbits' post-grouping behaviour and its relation to ano-genital distance. <i>Applied Animal Behaviour Science</i> , 2016, 182, 53-60.	1.9	13
80	Fluctuation of potential zinc status biomarkers throughout a reproductive cycle of primiparous and multiparous sows. <i>British Journal of Nutrition</i> , 2015, 114, 544-552.	2.3	12
81	Evaluating the effect of semi-group housing of rabbit does on their offspring's fearfulness: can we use the open-field test?. <i>Applied Animal Behaviour Science</i> , 2015, 162, 58-66.	1.9	12
82	Market Opportunities for Animal-Friendly Milk in Different Consumer Segments. <i>Sustainability</i> , 2016, 8, 1302.	3.2	12
83	An automated positioning system for monitoring chickens' location: Accuracy and registration success in a free-range area. <i>Applied Animal Behaviour Science</i> , 2018, 201, 31-39.	1.9	12
84	Monitoring of behavior, sex hormones and boar taint compounds during the vaccination program for immunocastration in three sire lines. <i>Research in Veterinary Science</i> , 2019, 124, 293-302.	1.9	12
85	Locomotion Disorders and Skin and Claw Lesions in Gestating Sows Housed in Dynamic versus Static Groups. <i>PLoS ONE</i> , 2016, 11, e0163625.	2.5	12
86	Inter-rater reliability of categorical versus continuous scoring of fish vitality: Does it affect the utility of the reflex action mortality predictor (RAMP) approach?. <i>PLoS ONE</i> , 2017, 12, e0179092.	2.5	12
87	Wintertime use of natural versus artificial shelter by cattle in nature reserves in temperate areas. <i>Applied Animal Behaviour Science</i> , 2015, 163, 39-49.	1.9	11
88	Using Expert Elicitation to Abridge the Welfare Quality® Protocol for Monitoring the Most Adverse Dairy Cattle Welfare Impairments. <i>Frontiers in Veterinary Science</i> , 2021, 8, 634470.	2.2	11
89	Performance, welfare, health and hygiene of laying hens in non-cage systems in comparison with cage systems.. , 2012, , 210-224.		11
90	The MC4R c.893G>A mutation: A marker for growth and leanness associated with boar taint odour in Belgian pig breeds. <i>Meat Science</i> , 2015, 101, 1-4.	5.5	10

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91	Broiler Chicken Behavior and Activity Are Affected by Novel Flooring Treatments. <i>Animals</i> , 2021, 11, 2841.	2.3	10
92	Performance of an animal-based test of thirst in commercial broiler chicken farms. <i>Poultry Science</i> , 2014, 93, 1327-1336.	3.4	9
93	An intervention study demonstrates effects of genotype on boar taint and performances of growingâ€“finishing pigs. <i>Journal of Animal Science</i> , 2015, 93, 934.	0.5	9
94	Effect of rubber flooring on group-housed sows' gait and claw and skin lesions <sup>1</sup> . <i>Journal of Animal Science</i> , 2016, 94, 2086-2096.	0.5	9
95	Impact of parity on bone metabolism throughout the reproductive cycle in sows. <i>Animal</i> , 2016, 10, 1714-1721.	3.3	9
96	Propagation-Loss Characterization for Livestock Implantables at (433, 868, 1400) MHz. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 5166-5170.	5.1	9
97	Marginal dietary zinc concentration affects claw conformation measurements but not histological claw characteristics in weaned pigs. <i>Veterinary Journal</i> , 2016, 209, 98-107.	1.7	8
98	Remedies for a high incidence of broken eggs in furnished cages: Effectiveness of increasing nest attractiveness and lowering perch height. <i>Poultry Science</i> , 2013, 92, 19-25.	3.4	7
99	Effect of locomotion score on sowsâ€™ performances in a feed reward collection test. <i>Animal</i> , 2015, 9, 1698-1703.	3.3	7
100	Effects of dark brooders and overhangs on free-range use and behaviour of slow-growing broilers. <i>Animal</i> , 2018, 12, 1621-1630.	3.3	6
101	On-Farm Claw Scoring in Sows Using a Novel Mobile Device. <i>Sensors</i> , 2019, 19, 1473.	3.8	6
102	Timing of part-time group housing for farm rabbits: Effects on reproductive performance, skin injuries and behaviour. <i>Applied Animal Behaviour Science</i> , 2022, 252, 105656.	1.9	6
103	Use of animal based measures for the assessment of dairy cow welfare ANIBAM. <i>EFSA Supporting Publications</i> , 2014, 11, 659E.	0.7	5
104	Olfactory evaluation of boar taint: effect of factors measured at slaughter and link with boar taint compounds. <i>Animal</i> , 2017, 11, 2084-2093.	3.3	5
105	Interactions between broiler chickens, soil parameters and short rotation coppice willow in a free-range system. <i>Agroecology and Sustainable Food Systems</i> , 2019, 43, 1009-1030.	1.9	5
106	Economic impact of decreasing stocking densities in broiler rabbit production based on Belgian farm data. <i>World Rabbit Science</i> , 2011, 19, .	0.6	5
107	Numerical assessment of EMF exposure of a cow to a wireless power transfer system for dairy cattle. <i>Computers and Electronics in Agriculture</i> , 2018, 151, 219-225.	7.7	4
108	On-farm prevalence of and potential risk factors for boar taint. <i>Animal</i> , 2021, 15, 100141.	3.3	4

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109	Welfare of broiler chickens reared in two different industrial house types during the winter season in Southern Brazil. <i>British Poultry Science</i> , 2021, 62, 1-11.	1.7	4
110	Testing the potential of the Sow Stance Information System (SowSIS) based on a force plate system built into an electronic sow feeder for on-farm automatic lameness detection in breeding sows. <i>Biosystems Engineering</i> , 2021, 204, 270-282.	4.3	4
111	From the Point of View of the Chickens: What Difference Does a Window Make?. <i>Animals</i> , 2021, 11, 3397.	2.3	4
112	Opportunities for short rotation coppice production on free-range chicken farms in Flanders: farmers' perceptions and cost-benefit analysis. <i>Renewable Agriculture and Food Systems</i> , 2020, 35, 286-295.	1.8	3
113	Developing and Understanding Olfactory Evaluation of Boar Taint. <i>Animals</i> , 2020, 10, 1684.	2.3	3
114	Killing individual poultry on-farm—a survey among veterinarians and farmers. <i>Poultry Science</i> , 2020, 99, 4132-4140.	3.4	3
115	Welfare of broiler chickens in Brazilian free-range versus intensive indoor production systems. <i>Journal of Applied Animal Welfare Science</i> , 2023, 26, 505-517.	1.0	3
116	Factors influencing claw lesion scoring in sows. <i>Preventive Veterinary Medicine</i> , 2020, 175, 104859.	1.9	2
117	Stakeholder perceptions on broiler chicken welfare during first-day processing and the pre-slaughter phase: a case study in Belgium. <i>World's Poultry Science Journal</i> , 2020, 76, 473-492.	3.0	2
118	Internet of animals: On-and off-body propagation analysis for energy efficient WBAN design for dairy cows. , 2017, , .		1
119	Improving welfare in catching and transport of chickens. <i>Burleigh Dodds Series in Agricultural Science</i> , 2020, , 417-458.	0.2	0
120	Comparison of Methods for Individual Killing of Broiler Chickens: A Matter of Animal Welfare and On-Farm Feasibility. <i>Frontiers in Animal Science</i> , 0, 3, .	1.9	0