

Imke J M De Boer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130
papers

6,074
citations

41
h-index

74
g-index

132
ext. papers

7,307
ext. citations

5.6
avg. IF

6.22
L-index

#	Paper	IF	Citations
130	Manure as waste and food as feed: Environmental challenges on Chinese dairy farms. <i>Resources, Conservation and Recycling</i> , 2022 , 181, 106233	11.9	0
129	Understanding transitions in farming systems and their effects on livestock rearing and smallholder livelihoods in Telangana, India. <i>Ambio</i> , 2021 , 50, 1809-1823	6.5	3
128	Yield gap analysis in dairy production systems using the mechanistic model LiGAPS-Dairy. <i>Journal of Dairy Science</i> , 2021 , 104, 5689-5704	4	3
127	Black soldier fly reared on pig manure: Bioconversion efficiencies, nutrients in the residual material, greenhouse gas and ammonia emissions. <i>Waste Management</i> , 2021 , 126, 674-683	8.6	20
126	Understanding variability in greenhouse gas emission estimates of smallholder dairy farms in Indonesia. <i>International Journal of Life Cycle Assessment</i> , 2021 , 26, 1160-1176	4.6	1
125	Milk quality along dairy farming systems and associated value chains in Kenya: An analysis of composition, contamination and adulteration. <i>Food Control</i> , 2021 , 119, 107482	6.2	9
124	Reducing greenhouse gas emissions of New Zealand beef through better integration of dairy and beef production. <i>Agricultural Systems</i> , 2021 , 186, 102936	6.1	16
123	Assessing dairy cow welfare during the grazing and housing periods on spring-calving, pasture-based dairy farms. <i>Journal of Animal Science</i> , 2021 , 99,	0.7	4
122	Principles, drivers and opportunities of a circular bioeconomy. <i>Nature Food</i> , 2021 , 2, 561-566	14.4	15
121	Effects of Dutch livestock production on human health and the environment. <i>Science of the Total Environment</i> , 2020 , 737, 139702	10.2	8
120	A review of European models to assess the sustainability performance of livestock production systems. <i>Agricultural Systems</i> , 2020 , 182, 102842	6.1	14
119	Innovation can accelerate the transition towards a sustainable food system. <i>Nature Food</i> , 2020 , 1, 266-272	14.4	121
118	Agriculture in land reform farms: Impact on livelihoods of beneficiaries in the Waterberg district, South Africa. <i>Land Use Policy</i> , 2020 , 97, 104710	5.6	4
117	Black soldier fly larvae show a stronger preference for manure than for a mass-rearing diet. <i>Journal of Applied Entomology</i> , 2020 , 144, 560-565	1.7	5
116	Bioconversion efficiencies, greenhouse gas and ammonia emissions during black soldier fly rearing [A mass balance approach. <i>Journal of Cleaner Production</i> , 2020 , 271, 122488	10.3	31
115	Nitrogen emissions along global livestock supply chains. <i>Nature Food</i> , 2020 , 1, 437-446	14.4	51
114	Effect of different cleaning procedures on water use and bacterial levels in weaner pig pens. <i>PLoS ONE</i> , 2020 , 15, e0242495	3.7	2

113	Associating mobility scores with production and reproductive performance in pasture-based dairy cows. <i>Journal of Dairy Science</i> , 2020 , 103, 9238-9249	4	6
112	Predicting nutrient excretion from dairy cows on smallholder farms in Indonesia using readily available farm data. <i>Asian-Australasian Journal of Animal Sciences</i> , 2020 , 33, 2039-2049	2.4	1
111	Soil carbon sequestration in grazing systems: managing expectations. <i>Climatic Change</i> , 2020 , 161, 385-391	15	15
110	Pre-weaning management of calves on commercial dairy farms and its influence on calf welfare and mortality. <i>Animal</i> , 2020 , 14, 2580-2587	3.1	2
109	Nitrogen flows in global pork supply chains and potential improvement from feeding swill to pigs. <i>Resources, Conservation and Recycling</i> , 2019 , 146, 168-179	11.9	13
108	The role of farm animals in a circular food system. <i>Global Food Security</i> , 2019 , 21, 18-22	8.3	62
107	Food Access Deficiencies in Sub-saharan Africa: Prevalence and Implications for Agricultural Interventions. <i>Frontiers in Sustainable Food Systems</i> , 2019 , 3,	4.8	38
106	The effect of intensive grazing systems on the rising plate meter calibration for perennial ryegrass pastures. <i>Journal of Dairy Science</i> , 2019 , 102, 10439-10450	4	9
105	Correcting fresh grass allowance for rejected patches due to excreta in intensive grazing systems for dairy cows. <i>Journal of Dairy Science</i> , 2019 , 102, 10451-10459	4	5
104	MAKING THE MOST OF IMPERFECT DATA: A CRITICAL EVALUATION OF STANDARD INFORMATION COLLECTED IN FARM HOUSEHOLD SURVEYS. <i>Experimental Agriculture</i> , 2019 , 55, 230-250	1.7	18
103	The relevance of spatial scales in nutrient balances on dairy farms. <i>Agriculture, Ecosystems and Environment</i> , 2019 , 269, 125-139	5.7	9
102	Assessing broad life cycle impacts of daily onboard decision-making, annual strategic planning, and fisheries management in a northeast Atlantic trawl fishery. <i>International Journal of Life Cycle Assessment</i> , 2018 , 23, 1357-1367	4.6	14
101	Understanding roles and functions of cattle breeds for pastoralists in Benin. <i>Livestock Science</i> , 2018 , 210, 129-136	1.7	8
100	Unravelling variation in feeding, social interaction and growth patterns among pigs using an agent-based model. <i>Physiology and Behavior</i> , 2018 , 191, 100-115	3.5	4
99	Visual soil evaluation: reproducibility and correlation with standard measurements. <i>Soil and Tillage Research</i> , 2018 , 178, 167-178	6.5	13
98	Metrics, models and foresight for European sustainable food and nutrition security: The vision of the SUSFANS project. <i>Agricultural Systems</i> , 2018 , 163, 45-57	6.1	27
97	Attributional versus consequential life cycle assessment and feed optimization: alternative protein sources in pig diets. <i>International Journal of Life Cycle Assessment</i> , 2018 , 23, 1-11	4.6	24
96	Yield gap analysis of feed-crop livestock systems: The case of grass-based beef production in France. <i>Agricultural Systems</i> , 2018 , 159, 21-31	6.1	2

95	Pastoralists in a changing environment: The competition for grazing land in and around the W Biosphere Reserve, Benin Republic. <i>Ambio</i> , 2018 , 47, 340-354	6.5	7
94	The potential of future foods for sustainable and healthy diets. <i>Nature Sustainability</i> , 2018 , 1, 782-789	22.1	103
93	Defining a land boundary for sustainable livestock consumption. <i>Global Change Biology</i> , 2018 , 24, 4185-4194	11.4	108
92	How social factors and behavioural strategies affect feeding and social interaction patterns in pigs. <i>Physiology and Behavior</i> , 2018 , 194, 23-40	3.5	9
91	When experts disagree: the need to rethink indicator selection for assessing sustainability of agriculture. <i>Environment, Development and Sustainability</i> , 2017 , 19, 1327-1342	4.5	60
90	Evaluation of the environmental, economic, and social performance of soybean farming systems in southern Brazil. <i>Journal of Cleaner Production</i> , 2017 , 142, 385-394	10.3	35
89	Behavioural adaptation to a short or no dry period with associated management in dairy cows. <i>Applied Animal Behaviour Science</i> , 2017 , 186, 7-15	2.2	14
88	The Choice of the Sustainability Assessment Tool Matters: Differences in Thematic Scope and Assessment Results. <i>Ecological Economics</i> , 2017 , 136, 77-85	5.6	33
87	Freshwater use in livestock production: to be used for food crops or livestock feed?. <i>Agricultural Systems</i> , 2017 , 155, 1-8	6.1	11
86	The importance of hormonal circadian rhythms in daily feeding patterns: An illustration with simulated pigs. <i>Hormones and Behavior</i> , 2017 , 93, 82-93	3.7	14
85	Land use efficiency of beef systems in the Northeastern USA from a food supply perspective. <i>Agricultural Systems</i> , 2017 , 156, 34-42	6.1	9
84	Methods for global sensitivity analysis in life cycle assessment. <i>International Journal of Life Cycle Assessment</i> , 2017 , 22, 1125-1137	4.6	59
83	Land reform in South Africa: Beneficiary participation and impact on land use in the Waterberg District. <i>Njas - Wageningen Journal of Life Sciences</i> , 2017 , 83, 57-66	7	15
82	Selective improvement of global datasets for the computation of locally relevant environmental indicators: A method based on global sensitivity analysis. <i>Environmental Modelling and Software</i> , 2017 , 96, 58-67	5.2	5
81	Assessing greenhouse gas emissions of milk production: which parameters are essential?. <i>International Journal of Life Cycle Assessment</i> , 2017 , 22, 441-455	4.6	15
80	Consumer interest in social sustainability issues of whitefish from capture fisheries in the north-east Atlantic. <i>Fish and Fisheries</i> , 2017 , 18, 527-542	6	1
79	Effects of dry period length on production, cash flows and greenhouse gas emissions of the dairy herd: A dynamic stochastic simulation model. <i>PLoS ONE</i> , 2017 , 12, e0187101	3.7	6
78	Sustainability assessment of agricultural systems: The validity of expert opinion and robustness of a multi-criteria analysis. <i>Agricultural Systems</i> , 2017 , 157, 118-128	6.1	31

77	Agent-based modelling in applied ethology: An exploratory case study of behavioural dynamics in tail biting in pigs. <i>Applied Animal Behaviour Science</i> , 2016 , 183, 10-18	2.2	5
76	Assessing sustainability at farm-level: Lessons learned from a comparison of tools in practice. <i>Ecological Indicators</i> , 2016 , 66, 391-404	5.8	127
75	Saving land to feed a growing population: consequences for consumption of crop and livestock products. <i>International Journal of Life Cycle Assessment</i> , 2016 , 21, 677-687	4.6	77
74	Global food supply: land use efficiency of livestock systems. <i>International Journal of Life Cycle Assessment</i> , 2016 , 21, 747-758	4.6	108
73	Assessing the Sustainability Performance of Organic Farms in Denmark. <i>Sustainability</i> , 2016 , 8, 957	3.6	23
72	A comprehensive framework to assess the sustainability of nutrient use in global livestock supply chains. <i>Journal of Cleaner Production</i> , 2016 , 129, 647-658	10.3	34
71	Environmental and economic performance of beef farming systems with different feeding strategies in southern Brazil. <i>Agricultural Systems</i> , 2016 , 146, 70-79	6.1	28
70	A framework for quantitative analysis of livestock systems using theoretical concepts of production ecology. <i>Agricultural Systems</i> , 2015 , 139, 100-109	6.1	17
69	Livestock and the Environment: What Have We Learned in the Past Decade?. <i>Annual Review of Environment and Resources</i> , 2015 , 40, 177-202	17.2	145
68	Housing and management factors associated with indicators of dairy cattle welfare. <i>Preventive Veterinary Medicine</i> , 2015 , 118, 80-92	3.1	61
67	Deriving estimates of individual variability in genetic potentials of performance traits for 3 dairy breeds, using a model of lifetime nutrient partitioning. <i>Journal of Dairy Science</i> , 2015 , 98, 618-32	4	4
66	Assessing the impact of changes in the electricity price structure on dairy farm energy costs. <i>Applied Energy</i> , 2015 , 137, 1-8	10.7	26
65	From environmental nuisance to environmental opportunity: housefly larvae convert waste to livestock feed. <i>Journal of Cleaner Production</i> , 2015 , 102, 362-369	10.3	76
64	Understanding feeding patterns in growing pigs by modelling growth and motivation. <i>Applied Animal Behaviour Science</i> , 2015 , 171, 69-80	2.2	12
63	Methods for uncertainty propagation in life cycle assessment. <i>Environmental Modelling and Software</i> , 2014 , 62, 316-325	5.2	74
62	Nutrient use efficiency: a valuable approach to benchmark the sustainability of nutrient use in global livestock production?. <i>Current Opinion in Environmental Sustainability</i> , 2014 , 9-10, 122-130	7.2	41
61	Potential of life cycle assessment to support environmental decision making at commercial dairy farms. <i>Agricultural Systems</i> , 2014 , 131, 105-115	6.1	31
60	Reducing the impact of irrigated crops on freshwater availability: the case of Brazilian yellow melons. <i>International Journal of Life Cycle Assessment</i> , 2014 , 19, 437-448	4.6	12

59	The effect of nutritional quality on comparing environmental impacts of human diets. <i>Journal of Cleaner Production</i> , 2014 , 73, 88-99	10.3	66
58	Cost-effectiveness of feeding strategies to reduce greenhouse gas emissions from dairy farming. <i>Journal of Dairy Science</i> , 2014 , 97, 2427-39	4	29
57	Exploring the value of routinely collected herd data for estimating dairy cattle welfare. <i>Journal of Dairy Science</i> , 2014 , 97, 715-30	4	34
56	Human-dog interactions and behavioural responses of village dogs in coastal villages in Michoacán, Mexico. <i>Applied Animal Behaviour Science</i> , 2014 , 154, 57-65	2.2	11
55	A mechanistic model for electricity consumption on dairy farms: definition, validation, and demonstration. <i>Journal of Dairy Science</i> , 2014 , 97, 4973-84	4	25
54	Methods to determine the relative value of genetic traits in dairy cows to reduce greenhouse gas emissions along the chain. <i>Journal of Dairy Science</i> , 2014 , 97, 5191-205	4	21
53	Chopped or long roughage: what do calves prefer? Using cross point analysis of double demand functions. <i>PLoS ONE</i> , 2014 , 9, e88778	3.7	21
52	Identifying Sustainability Issues for Soymeal and Beef Production Chains. <i>Journal of Agricultural and Environmental Ethics</i> , 2014 , 27, 949-965	2.3	11
51	Handling multi-functionality of livestock in a life cycle assessment: the case of smallholder dairying in Kenya. <i>Current Opinion in Environmental Sustainability</i> , 2014 , 8, 29-38	7.2	52
50	What do calves choose to eat and how do preferences affect behaviour?. <i>Applied Animal Behaviour Science</i> , 2014 , 161, 7-19	2.2	19
49	The impact of uncertainties on predicted greenhouse gas emissions of dairy cow production systems. <i>Journal of Cleaner Production</i> , 2014 , 73, 116-124	10.3	33
48	Benchmarking the economic, environmental and societal performance of Dutch dairy farms aiming at internal recycling of nutrients. <i>Journal of Cleaner Production</i> , 2014 , 73, 245-252	10.3	44
47	Assessing environmental consequences of using co-products in animal feed. <i>International Journal of Life Cycle Assessment</i> , 2014 , 19, 79-88	4.6	28
46	Exploring variability in methods and data sensitivity in carbon footprints of feed ingredients. <i>International Journal of Life Cycle Assessment</i> , 2013 , 18, 768-782	4.6	40
45	Effect of origin and composition of diet on ecological impact of the organic egg production chain. <i>Livestock Science</i> , 2013 , 151, 271-283	1.7	7
44	Evaluation of a feeding strategy to reduce greenhouse gas emissions from dairy farming: The level of analysis matters. <i>Agricultural Systems</i> , 2013 , 121, 9-22	6.1	36
43	Evaluating results of the Welfare Quality multi-criteria evaluation model for classification of dairy cattle welfare at the herd level. <i>Journal of Dairy Science</i> , 2013 , 96, 6264-73	4	52
42	Factors affecting energy and nitrogen efficiency of dairy cows: a meta-analysis. <i>Journal of Dairy Science</i> , 2013 , 96, 7245-7259	4	28

41	Assessing environmental impacts associated with freshwater consumption along the life cycle of animal products: the case of Dutch milk production in Noord-Brabant. <i>International Journal of Life Cycle Assessment</i> , 2013 , 18, 193-203	4.6	54
40	Livestock Farming with Care: towards sustainable production of animal-source food. <i>Njas - Wageningen Journal of Life Sciences</i> , 2013 , 66, 3-5	7	33
39	Energy demand on dairy farms in Ireland. <i>Journal of Dairy Science</i> , 2013 , 96, 6489-98	4	47
38	The carbon footprint of exported Brazilian yellow melon. <i>Journal of Cleaner Production</i> , 2013 , 47, 404-414	6.3	30
37	Accounting for multi-functionality of sheep farming in the carbon footprint of lamb: A comparison of three contrasting Mediterranean systems. <i>Agricultural Systems</i> , 2013 , 116, 60-68	6.1	78
36	Life cycle assessment of segregating fattening pig urine and feces compared to conventional liquid manure management. <i>Environmental Science & Technology</i> , 2013 , 47, 1589-97	10.3	10
35	Assessment time of the Welfare Quality [®] protocol for dairy cattle. <i>Animal Welfare</i> , 2013 , 22, 85-93	2.9	21
34	Environmental consequences of processing manure to produce mineral fertilizer and bio-energy. <i>Journal of Environmental Management</i> , 2012 , 102, 173-83	7.9	86
33	Sustainability evaluation of automatic and conventional milking systems on organic dairy farms in Denmark. <i>Njas - Wageningen Journal of Life Sciences</i> , 2012 , 59, 25-33	7	13
32	Comparing environmental consequences of anaerobic mono- and co-digestion of pig manure to produce bio-energy—a life cycle perspective. <i>Bioresource Technology</i> , 2012 , 125, 239-48	11	120
31	Exploring variation in economic, environmental and societal performance among Dutch fattening pig farms. <i>Livestock Science</i> , 2012 , 149, 143-154	1.7	39
30	Carbon footprint of five pig diets using three land use change accounting methods. <i>Livestock Science</i> , 2012 , 149, 215-223	1.7	42
29	Environmental impact of the production of mealworms as a protein source for humans - a life cycle assessment. <i>PLoS ONE</i> , 2012 , 7, e51145	3.7	388
28	Inter- and intra-observer reliability of experienced and inexperienced observers for the Qualitative Behaviour Assessment in dairy cattle. <i>Animal Welfare</i> , 2012 , 21, 307-318	2.9	46
27	Total loss and distribution of nitrogen and phosphorus in the outdoor run of organic laying hens. <i>British Poultry Science</i> , 2012 , 53, 731-40	1.9	12
26	The need and potential of biosensors to detect dioxins and dioxin-like polychlorinated biphenyls along the milk, eggs and meat food chain. <i>Sensors</i> , 2011 , 11, 11692-716	3.8	35
25	Environmental comparison of biobased chemicals from glutamic acid with their petrochemical equivalents. <i>Environmental Science & Technology</i> , 2011 , 45, 8521-8	10.3	46
24	Economic and environmental evaluation of three goal-vision based scenarios for organic dairy farming in Denmark. <i>Agricultural Systems</i> , 2011 , 104, 315-325	6.1	20

23	Invited review: associations between variables of routine herd data and dairy cattle welfare indicators. <i>Journal of Dairy Science</i> , 2011 , 94, 3213-28	4	62
22	Effect of abandoning highland grazing on nutrient balances and economic performance of Italian Alpine dairy farms. <i>Livestock Science</i> , 2011 , 139, 142-149	1.7	27
21	Ecological and economic evaluation of Dutch egg production systems. <i>Livestock Science</i> , 2011 , 139, 109-121	1.7	54
20	Eco-efficiency in the production chain of Dutch semi-hard cheese. <i>Livestock Science</i> , 2011 , 139, 91-99	1.7	61
19	Life cycle assessment of food production in integrated agriculture–aquaculture systems of the Mekong Delta. <i>Livestock Science</i> , 2011 , 139, 80-90	1.7	33
18	Emissions of ammonia, nitrous oxide, and methane from aviaries with organic laying hen husbandry. <i>Biosystems Engineering</i> , 2011 , 110, 123-133	4.8	18
17	Greenhouse gas mitigation in animal production: towards an integrated life cycle sustainability assessment. <i>Current Opinion in Environmental Sustainability</i> , 2011 , 3, 423-431	7.2	81
16	Comparing environmental impacts for livestock products: A review of life cycle assessments. <i>Livestock Science</i> , 2010 , 128, 1-11	1.7	694
15	Economic, ecological, and social performance of conventional and organic broiler production in the Netherlands. <i>British Poultry Science</i> , 2009 , 50, 546-57	1.9	36
14	Relating life cycle assessment indicators to gross value added for Dutch dairy farms. <i>Ecological Economics</i> , 2009 , 68, 2278-2284	5.6	114
13	Life cycle assessment of conventional and organic milk production in the Netherlands. <i>Agricultural Systems</i> , 2008 , 96, 95-107	6.1	272
12	Systems In Organic Dairy Production. <i>Journal of Agricultural and Environmental Ethics</i> , 2008 , 21, 205-228	2.3	8
11	Modelling worker physical health and societal sustainability at farm level: An application to conventional and organic dairy farming. <i>Agricultural Systems</i> , 2007 , 94, 205-219	6.1	33
10	On-farm quantification of sustainability indicators: an application to egg production systems. <i>British Poultry Science</i> , 2006 , 47, 405-17	1.9	58
9	Evaluation of indicators to assess the environmental impact of dairy production systems. <i>Agriculture, Ecosystems and Environment</i> , 2005 , 111, 185-199	5.7	93
8	On-farm assessment of laying hen welfare: a comparison of one environment-based and two animal-based methods. <i>Applied Animal Behaviour Science</i> , 2005 , 90, 277-291	2.2	24
7	Environmental assessment tools for the evaluation and improvement of European livestock production systems. <i>Livestock Science</i> , 2005 , 96, 33-50		107
6	An LP-model to analyse economic and ecological sustainability on Dutch dairy farms: model presentation and application for experimental farm de Marke. <i>Agricultural Systems</i> , 2004 , 82, 139-160	6.1	84

5	Environmental impact assessment of conventional and organic milk production. <i>Livestock Science</i> , 2003 , 80, 69-77		197
4	Market share for semen and cloned embryos in dairy herds. <i>Journal of Dairy Science</i> , 1994 , 77, 3691-703	4	7
3	Genetic evaluation methods for populations with dominance and inbreeding. <i>Theoretical and Applied Genetics</i> , 1993 , 86, 245-58	6	55
2	Prediction of additive and dominance effects in selected or unselected populations with inbreeding. <i>Theoretical and Applied Genetics</i> , 1992 , 84, 451-9	6	38
1	Circularity in animal production requires a change in the EAT-Lancet diet in Europe. <i>Nature Food</i> ,	14.4	2