

Mario Herrero

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230
papers

21,857
citations

69
h-index

145
g-index

247
ext. papers

28,453
ext. citations

8.4
avg, IF

6.85
L-index

#	Paper	IF	Citations
230	Food in the Anthropocene: the EAT-Lancet Commission on healthy diets from sustainable food systems. <i>Lancet, The</i> , 2019 , 393, 447-492	40	2664
229	Agriculture. Sustainable intensification in agriculture: premises and policies. <i>Science</i> , 2013 , 341, 33-4	33.3	957
228	Options for keeping the food system within environmental limits. <i>Nature</i> , 2018 , 562, 519-525	50.4	925
227	Natural climate solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11645-11650	11.5	921
226	The Global Syndemic of Obesity, Undernutrition, and Climate Change: The Lancet Commission report. <i>Lancet, The</i> , 2019 , 393, 791-846	40	914
225	Biomass use, production, feed efficiencies, and greenhouse gas emissions from global livestock systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20888-93	11.5	626
224	Smart investments in sustainable food production: revisiting mixed crop-livestock systems. <i>Science</i> , 2010 , 327, 822-5	33.3	498
223	The impacts of climate change on livestock and livestock systems in developing countries: A review of what we know and what we need to know. <i>Agricultural Systems</i> , 2009 , 101, 113-127	6.1	494
222	Climate variability and vulnerability to climate change: a review. <i>Global Change Biology</i> , 2014 , 20, 3313-28	11.4	468
221	Adapting agriculture to climate change in Kenya: household strategies and determinants. <i>Journal of Environmental Management</i> , 2013 , 114, 26-35	7.9	388
220	Greenhouse gas mitigation potentials in the livestock sector. <i>Nature Climate Change</i> , 2016 , 6, 452-461	21.4	376
219	A high-resolution assessment on global nitrogen flows in cropland. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 8035-40	11.5	373
218	How much land-based greenhouse gas mitigation can be achieved without compromising food security and environmental goals?. <i>Global Change Biology</i> , 2013 , 19, 2285-302	11.4	358
217	The marker quantification of the Shared Socioeconomic Pathway 2: A middle-of-the-road scenario for the 21st century. <i>Global Environmental Change</i> , 2017 , 42, 251-267	10.1	349
216	Mapping global cropland and field size. <i>Global Change Biology</i> , 2015 , 21, 1980-92	11.4	312
215	Climate change mitigation through livestock system transitions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3709-14	11.5	305
214	Trends in Global Agricultural Land Use: Implications for Environmental Health and Food Security. <i>Annual Review of Plant Biology</i> , 2018 , 69, 789-815	30.7	286

213	Communicating complexity: Integrated assessment of trade-offs concerning soil fertility management within African farming systems to support innovation and development. <i>Agricultural Systems</i> , 2011 , 104, 191-203	6.1	284
212	Brief history of agricultural systems modeling. <i>Agricultural Systems</i> , 2017 , 155, 240-254	6.1	256
211	Beyond milk, meat, and eggs: Role of livestock in food and nutrition security. <i>Animal Frontiers</i> , 2013 , 3, 6-13	5.5	233
210	Greenhouse gas emissions intensity of global croplands. <i>Nature Climate Change</i> , 2017 , 7, 63-68	21.4	229
209	Livestock, livelihoods and the environment: understanding the trade-offs. <i>Current Opinion in Environmental Sustainability</i> , 2009 , 1, 111-120	7.2	214
208	Reducing emissions from agriculture to meet the 2°C target. <i>Global Change Biology</i> , 2016 , 22, 3859-3864	11.4	203
207	Sustaining intensification of smallholder livestock systems in the tropics. <i>Livestock Science</i> , 2010 , 130, 95-109	1.7	203
206	Subnational distribution of average farm size and smallholder contributions to global food production. <i>Environmental Research Letters</i> , 2016 , 11, 124010	6.2	197
205	Livestock and global change: emerging issues for sustainable food systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20878-81	11.5	190
204	Farming and the geography of nutrient production for human use: a transdisciplinary analysis. <i>Lancet Planetary Health</i> , 2017 , 1, e33-e42	9.8	188
203	Toward a new generation of agricultural system data, models, and knowledge products: State of agricultural systems science. <i>Agricultural Systems</i> , 2017 , 155, 269-288	6.1	188
202	Drivers of household food availability in sub-Saharan Africa based on big data from small farms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 458-63	11.5	182
201	The roles of livestock in developing countries. <i>Animal</i> , 2013 , 7 Suppl 1, 3-18	3.1	181
200	Potential for reduced methane and carbon dioxide emissions from livestock and pasture management in the tropics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19667-72	11.5	177
199	Bending the curve of terrestrial biodiversity needs an integrated strategy. <i>Nature</i> , 2020 , 585, 551-556	50.4	149
198	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
197	Cattle ranching intensification in Brazil can reduce global greenhouse gas emissions by sparing land from deforestation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7236-41	11.5	144
196	Climate change perception and adaptation of agro-pastoral communities in Kenya. <i>Regional Environmental Change</i> , 2012 , 12, 791-802	4.3	143

195	Opinion: Sustainable development must account for pandemic risk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 3888-3892	11.5	141
194	Adapting to climate change: Agricultural system and household impacts in East Africa. <i>Agricultural Systems</i> , 2010 , 103, 73-82	6.1	140
193	Challenges to scenario-guided adaptive action on food security under climate change. <i>Global Environmental Change</i> , 2014 , 28, 383-394	10.1	139
192	The environmental costs and benefits of high-yield farming. <i>Nature Sustainability</i> , 2018 , 1, 477-485	22.1	130
191	Integrated crop-livestock simulation models for scenario analysis and impact assessment. <i>Agricultural Systems</i> , 2001 , 70, 581-602	6.1	127
190	Innovation can accelerate the transition towards a sustainable food system. <i>Nature Food</i> , 2020 , 1, 266-274	14.4	121
189	Food wedges: Framing the global food demand and supply challenge towards 2050. <i>Global Food Security</i> , 2014 , 3, 125-132	8.3	119
188	Mapping child growth failure in Africa between 2000 and 2015. <i>Nature</i> , 2018 , 555, 41-47	50.4	118
187	Adapting to climate change in the mixed crop and livestock farming systems in sub-Saharan Africa. <i>Nature Climate Change</i> , 2015 , 5, 830-836	21.4	116
186	Assessing the land resource-food price nexus of the Sustainable Development Goals. <i>Science Advances</i> , 2016 , 2, e1501499	14.3	116
185	Reducing greenhouse gas emissions in agriculture without compromising food security?. <i>Environmental Research Letters</i> , 2017 , 12, 105004	6.2	112
184	Agricultural productivity and greenhouse gas emissions: trade-offs or synergies between mitigation and food security?. <i>Environmental Research Letters</i> , 2013 , 8, 035019	6.2	109
183	Defining a land boundary for sustainable livestock consumption. <i>Global Change Biology</i> , 2018 , 24, 4185-4194	11.4	108
182	The potential of future foods for sustainable and healthy diets. <i>Nature Sustainability</i> , 2018 , 1, 782-789	22.1	103
181	A method for evaluating climate change adaptation strategies for small-scale farmers using survey, experimental and modeled data. <i>Agricultural Systems</i> , 2012 , 111, 85-95	6.1	100
180	Increasing importance of precipitation variability on global livestock grazing lands. <i>Nature Climate Change</i> , 2018 , 8, 214-218	21.4	99
179	Gaps between fruit and vegetable production, demand, and recommended consumption at global and national levels: an integrated modelling study. <i>Lancet Planetary Health</i> , 2019 , 3, e318-e329	9.8	93
178	Competing use of organic resources, village-level interactions between farm types and climate variability in a communal area of NE Zimbabwe. <i>Agricultural Systems</i> , 2011 , 104, 175-190	6.1	93

177	Transitions in agro-pastoralist systems of East Africa: Impacts on food security and poverty. <i>Agriculture, Ecosystems and Environment</i> , 2013 , 179, 215-230	5.7	88
176	Systems dynamics and the spatial distribution of methane emissions from African domestic ruminants to 2030. <i>Agriculture, Ecosystems and Environment</i> , 2008 , 126, 122-137	5.7	87
175	High carbon and biodiversity costs from converting Africa's wet savannahs to cropland. <i>Nature Climate Change</i> , 2015 , 5, 481-486	21.4	85
174	Coping Strategies in Livestock-dependent Households in East and Southern Africa: A Synthesis of Four Case Studies. <i>Human Ecology</i> , 2007 , 35, 461-476	2	83
173	Exploring future changes in smallholder farming systems by linking socio-economic scenarios with regional and household models. <i>Global Environmental Change</i> , 2014 , 24, 165-182	10.1	82
172	Climate change adaptation in mixed crop-livestock systems in developing countries. <i>Global Food Security</i> , 2014 , 3, 99-107	8.3	81
171	Crop Productivity and the Global Livestock Sector: Implications for Land Use Change and Greenhouse Gas Emissions. <i>American Journal of Agricultural Economics</i> , 2013 , 95, 442-448	3.1	81
170	Livestock and greenhouse gas emissions: The importance of getting the numbers right. <i>Animal Feed Science and Technology</i> , 2011 , 166-167, 779-782	3	79
169	Improved global cropland data as an essential ingredient for food security. <i>Global Food Security</i> , 2015 , 4, 37-45	8.3	77
168	Spatially explicit estimates of N ₂ O emissions from croplands suggest climate mitigation opportunities from improved fertilizer management. <i>Global Change Biology</i> , 2016 , 22, 3383-94	11.4	77
167	Decoupling Livestock from Land Use through Industrial Feed Production Pathways. <i>Environmental Science & Technology</i> , 2018 , 52, 7351-7359	10.3	76
166	Beyond climate-smart agriculture: toward safe operating spaces for global food systems. <i>Agriculture and Food Security</i> , 2013 , 2,	3.1	76
165	The role of personal information sources on the decision-making process of Costa Rican dairy farmers. <i>Agricultural Systems</i> , 2003 , 76, 3-18	6.1	75
164	Linking agricultural adaptation strategies, food security and vulnerability: evidence from West Africa. <i>Regional Environmental Change</i> , 2016 , 16, 1305-1317	4.3	72
163	Beyond resource constraints – Exploring the biophysical feasibility of options for the intensification of smallholder crop-livestock systems in Vihiga district, Kenya. <i>Agricultural Systems</i> , 2009 , 101, 1-19	6.1	71
162	Towards a new generation of agricultural system data, models and knowledge products: Design and improvement. <i>Agricultural Systems</i> , 2017 , 155, 255-268	6.1	67
161	Agricultural diversification as an important strategy for achieving food security in Africa. <i>Global Change Biology</i> , 2018 , 24, 3390-3400	11.4	66
160	Can agriculture support climate change adaptation, greenhouse gas mitigation and rural livelihoods? insights from Kenya. <i>Climatic Change</i> , 2013 , 118, 151-165	4.5	66

159	Pathways for sustainable development of mixed crop livestock systems: Taking a livestock and pro-poor approach. <i>Livestock Science</i> , 2011 , 139, 11-21	1.7	66
158	Income growth and climate change effects on global nutrition security to mid-century. <i>Nature Sustainability</i> , 2018 , 1, 773-781	22.1	65
157	Livestock in a changing climate: production system transitions as an adaptation strategy for agriculture. <i>Environmental Research Letters</i> , 2015 , 10, 094021	6.2	64
156	Microbes and the Next Nitrogen Revolution. <i>Environmental Science & Technology</i> , 2017 , 51, 7297-7303	10.3	63
155	Bio-economic evaluation of farmers' perceptions of viable farms in western Kenya. <i>Agricultural Systems</i> , 2006 , 90, 243-271	6.1	63
154	Climate change impacts on selected global rangeland ecosystem services. <i>Global Change Biology</i> , 2018 , 24, 1382-1393	11.4	63
153	The vulnerabilities of agricultural land and food production to future water scarcity. <i>Global Environmental Change</i> , 2019 , 58, 101944	10.1	60
152	Identifying key entry-points for strategic management of smallholder farming systems in sub-Saharan Africa using the dynamic farm-scale simulation model NUANCES-FARMSIM. <i>Agricultural Systems</i> , 2009 , 102, 89-101	6.1	58
151	Modelling the global economic consequences of a major African swine fever outbreak in China. <i>Nature Food</i> , 2020 , 1, 221-228	14.4	54
150	Bio-economic evaluation of dairy farm management scenarios using integrated simulation and multiple-criteria models. <i>Agricultural Systems</i> , 1999 , 62, 169-188	6.1	54
149	Climate change induced transformations of agricultural systems: insights from a global model. <i>Environmental Research Letters</i> , 2014 , 9, 124018	6.2	53
148	LivestockPlus - The sustainable intensification of forage-based agricultural systems to improve livelihoods and ecosystem services in the tropics. <i>Tropical Grasslands - Forrajes Tropicales</i> , 2015 , 3, 59	1.8	53
147	Effect of climate change, CO2 trends, nitrogen addition, and land-cover and management intensity changes on the carbon balance of European grasslands. <i>Global Change Biology</i> , 2016 , 22, 338-50	11.4	53
146	Opinion paper: The role of livestock in a sustainable diet: a land-use perspective. <i>Animal</i> , 2016 , 10, 547-93	3.1	53
145	The Need for Improved Maps of Global Cropland. <i>Eos</i> , 2013 , 94, 31-32	1.5	52
144	Re-framing the climate change debate in the livestock sector: mitigation and adaptation options. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2016 , 7, 869-892	8.4	52
143	Modeling extended lactations of dairy cows. <i>Journal of Dairy Science</i> , 2000 , 83, 1371-80	4	51
142	Farm household models to analyse food security in a changing climate: A review. <i>Global Food Security</i> , 2014 , 3, 77-84	8.3	50

141	Maasai perception of the impact and incidence of malignant catarrhal fever (MCF) in southern Kenya. <i>Preventive Veterinary Medicine</i> , 2007 , 78, 296-316	3.1	48
140	Articulating the effect of food systems innovation on the Sustainable Development Goals. <i>Lancet Planetary Health</i> , 2021 , 5, e50-e62	9.8	48
139	A framework for priority-setting in climate smart agriculture research. <i>Agricultural Systems</i> , 2018 , 167, 161-175	6.1	48
138	Derivation of a household-level vulnerability index for empirically testing measures of adaptive capacity and vulnerability. <i>Regional Environmental Change</i> , 2013 , 13, 459-470	4.3	46
137	Implications of alternative metrics for global mitigation costs and greenhouse gas emissions from agriculture. <i>Climatic Change</i> , 2013 , 117, 677-690	4.5	46
136	A research vision for food systems in the 2020s: Defying the status quo. <i>Global Food Security</i> , 2020 , 26, 100397	8.3	46
135	Assessing water resource use in livestock production: A review of methods. <i>Livestock Science</i> , 2016 , 187, 68-79	1.7	46
134	IMPACT: Generic household-level databases and diagnostics tools for integrated crop-livestock systems analysis. <i>Agricultural Systems</i> , 2007 , 92, 240-265	6.1	44
133	Integrating crops and livestock in subtropical agricultural systems. <i>Journal of the Science of Food and Agriculture</i> , 2012 , 92, 1010-5	4.3	43
132	Characterising objective profiles of Costa Rican dairy farmers. <i>Agricultural Systems</i> , 2001 , 67, 153-179	6.1	43
131	Lifetime productivity of dairy cows in smallholder farming systems of the Central highlands of Kenya. <i>Animal</i> , 2009 , 3, 1044-56	3.1	42
130	Grazing systems expansion and intensification: Drivers, dynamics, and trade-offs. <i>Global Food Security</i> , 2018 , 16, 93-105	8.3	41
129	The influence of diet of the donor animal on the initial bacterial concentration of ruminal fluid and in vitro gas production degradability parameters. <i>Animal Feed Science and Technology</i> , 2000 , 87, 231-239 ³		41
128	The role of trade in the greenhouse gas footprints of EU diets. <i>Global Food Security</i> , 2018 , 19, 48-55	8.3	41
127	Is production intensification likely to make farm households food-adequate? A simple food availability analysis across smallholder farming systems from East and West Africa. <i>Food Security</i> , 2017 , 9, 115-131	6.7	40
126	Revisiting enteric methane emissions from domestic ruminants and their α source signature. <i>Nature Communications</i> , 2019 , 10, 3420	17.4	40
125	Quantification of uncertainties in global grazing systems assessment. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 1089-1102	5.9	40
124	Comparison of models for describing the lactation curve of latxa sheep and an analysis of factors affecting milk yield. <i>Journal of Dairy Science</i> , 2000 , 83, 2709-19	4	40

123	New feed sources key to ambitious climate targets. <i>Carbon Balance and Management</i> , 2015 , 10, 26	3.6	39
122	Targeting, out-scaling and prioritising climate-smart interventions in agricultural systems: Lessons from applying a generic framework to the livestock sector in sub-Saharan Africa. <i>Agricultural Systems</i> , 2017 , 151, 153-162	6.1	38
121	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
120	Intensification pathways for beef and dairy cattle production systems: Impacts on GHG emissions, land occupation and land use change. <i>Agriculture, Ecosystems and Environment</i> , 2017 , 240, 135-147	5.7	37
119	Climate change and pastoralism: impacts, consequences and adaptation. <i>OIE Revue Scientifique Et Technique</i> , 2016 , 35, 417-433	2.5	36
118	Livestock policy for sustainable development. <i>Nature Food</i> , 2020 , 1, 160-165	14.4	35
117	Relationships between management intensity and structural and social variables in dairy and dual-purpose systems in Santa Cruz, Bolivia. <i>Agricultural Systems</i> , 2000 , 65, 159-177	6.1	35
116	Multiple cropping systems of the world and the potential for increasing cropping intensity. <i>Global Environmental Change</i> , 2020 , 64, 102131	10.1	35
115	Climate warming from managed grasslands cancels the cooling effect of carbon sinks in sparsely grazed and natural grasslands. <i>Nature Communications</i> , 2021 , 12, 118	17.4	34
114	Seasonality constraints to livestock grazing intensity. <i>Global Change Biology</i> , 2017 , 23, 1636-1647	11.4	33
113	Historical trade-offs of livestock environmental impacts. <i>Environmental Research Letters</i> , 2015 , 10, 125013	11.3	33
112	Carbon sequestration and farm income in West Africa: Identifying best management practices for smallholder agricultural systems in northern Ghana. <i>Ecological Economics</i> , 2008 , 67, 492-502	5.6	32
111	The Inter-Linkages Between Rapid Growth In Livestock Production, Climate Change, And The Impacts On Water Resources, Land Use, And Deforestation. <i>Policy Research Working Papers</i> , 2010 ,	2.1	32
110	Yield gap analyses to estimate attainable bovine milk yields and evaluate options to increase production in Ethiopia and India. <i>Agricultural Systems</i> , 2017 , 155, 43-51	6.1	31
109	Closing system-wide yield gaps to increase food production and mitigate GHGs among mixed crop-livestock smallholders in Sub-Saharan Africa. <i>Agricultural Systems</i> , 2016 , 143, 106-113	6.1	30
108	Climate change and variability impacts on grazing herds: Insights from a system dynamics approach for semi-arid Australian rangelands. <i>Global Change Biology</i> , 2019 , 25, 3091-3109	11.4	29
107	Agricultural intensification scenarios, household food availability and greenhouse gas emissions in Rwanda: Ex-ante impacts and trade-offs. <i>Agricultural Systems</i> , 2018 , 163, 16-26	6.1	29
106	Prioritizing climate-smart livestock technologies in rural Tanzania: A minimum data approach. <i>Agricultural Systems</i> , 2017 , 151, 204-216	6.1	29

105	Impacts of climate change on the livestock food supply chain; a review of the evidence. <i>Global Food Security</i> , 2021 , 28, 100488	8.3	29
104	Economic values for production and functional traits in Holstein cattle of Costa Rica. <i>Livestock Science</i> , 2002 , 75, 101-116		28
103	Interactions between intervention packages, climatic risk, climate change and food security in mixed crop-livestock systems in Burkina Faso. <i>Agricultural Systems</i> , 2017 , 151, 217-224	6.1	27
102	Using farmer decision-making profiles and managerial capacity as predictors of farm management and performance in Costa Rican dairy farms. <i>Agricultural Systems</i> , 2006 , 88, 395-428	6.1	26
101	Challenges and opportunities for improving eco-efficiency of tropical forage-based systems to mitigate greenhouse gas emissions. <i>Tropical Grasslands - Forrajes Tropicales</i> , 2013 , 1, 156	1.8	26
100	The environmental costs and benefits of high-yield farming. <i>Nature Sustainability</i> , 2018 , 1, 477-485	22.1	26
99	Structural change as a key component for agricultural non-CO mitigation efforts. <i>Nature Communications</i> , 2018 , 9, 1060	17.4	25
98	A Decision Support System for smallholder campesino maize-cattle production systems of the Toluca Valley in Central Mexico. Part II Integrating biological and socio-economic models into a holistic system. <i>Agricultural Systems</i> , 2003 , 75, 1-21	6.1	24
97	An integrated evaluation of strategies for enhancing productivity and profitability of resource-constrained smallholder farms in Zimbabwe. <i>Agricultural Systems</i> , 2009 , 101, 57-68	6.1	23
96	Modelling the growth and utilisation of kikuyu grass (<i>Pennisetum clandestinum</i>) under grazing. 1. Model definition and parameterisation. <i>Agricultural Systems</i> , 2000 , 65, 73-97	6.1	23
95	Hotspots of gross emissions from the land use sector: patterns, uncertainties, and leading emission sources for the period 2000-2005 in the tropics. <i>Biogeosciences</i> , 2016 , 13, 4253-4269	4.6	23
94	Combining livestock production information in a process-based vegetation model to reconstruct the history of grassland management. <i>Biogeosciences</i> , 2016 , 13, 3757-3776	4.6	23
93	Pathways to carbon-neutrality for the Australian red meat sector. <i>Agricultural Systems</i> , 2019 , 175, 13-21	6.1	22
92	Global rangeland production systems and livelihoods at threat under climate change and variability. <i>Environmental Research Letters</i> , 2020 , 15, 044021	6.2	22
91	Carbon emission avoidance and capture by producing in-reactor microbial biomass based food, feed and slow release fertilizer: Potentials and limitations. <i>Science of the Total Environment</i> , 2018 , 644, 1525-1530	10.2	22
90	Climate Change Impacts and Mitigation in the Developing World: An Integrated Assessment of the Agriculture and Forestry Sectors. <i>Policy Research Working Papers</i> , 2015 ,	2.1	22
89	Livestock Water Use and Productivity in the Nile Basin. <i>Ecosystems</i> , 2010 , 13, 205-221	3.9	21
88	Policies in support of pastoralism and biodiversity in the heterogeneous drylands of East Africa. <i>Pastoralism</i> , 2012 , 2, 14	2.9	20

87	Prediction of the in vitro gas production and chemical composition of kikuyu grass by near-infrared reflectance spectroscopy. <i>Animal Feed Science and Technology</i> , 1996 , 60, 51-67	3	20
86	What can COVID-19 teach us about responding to climate change?. <i>Lancet Planetary Health</i> , 2020 , 4, e174	9.8	19
85	Identifying recommendation domains for targeting dual-purpose maize-based interventions in crop-livestock systems in East Africa. <i>Land Use Policy</i> , 2013 , 30, 834-846	5.6	19
84	Integrating livestock feeds and production systems into agricultural multi-market models: The example of IMPACT. <i>Food Policy</i> , 2014 , 49, 365-377	5	19
83	The evolution and evaluation of dairy cattle models for predicting milk production: an agricultural model intercomparison and improvement project (AgMIP) for livestock. <i>Animal Production Science</i> , 2014 , 54, 2052	1.4	18
82	Reducing uncertainty in nitrogen budgets for African livestock systems. <i>Environmental Research Letters</i> , 2014 , 9, 105008	6.2	18
81	Livestock wealth and social capital as insurance against climate risk: A case study of Samburu County in Kenya. <i>Agricultural Systems</i> , 2016 , 146, 44-54	6.1	18
80	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
79	The effect of fermentable nitrogen availability on in vitro gas production and degradability of NDF. <i>Animal Feed Science and Technology</i> , 2000 , 87, 241-251	3	17
78	Livelihoods and food security in an urban linked, high potential region of Tanzania: Changes over a three year period. <i>Agricultural Systems</i> , 2018 , 160, 87-95	6.1	17
77	Ecoregional Research for Development. <i>Advances in Agronomy</i> , 2007 , 93, 257-311	7.7	16
76	Shearing strength as an additional selection criterion for quality in <i>Brachiaria</i> pasture ecotypes. <i>Journal of Agricultural Science</i> , 2000 , 135, 123-130	1	16
75	Closing yield gaps in smallholder goat production systems in Ethiopia and India. <i>Livestock Science</i> , 2018 , 214, 238-244	1.7	16
74	The power and pain of market-based carbon policies: a global application to greenhouse gases from ruminant livestock production. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2018 , 23, 349-369	3.9	15
73	Prediction of the in vitro gas production dynamics of kikuyu grass by near-infrared reflectance spectroscopy using spectrally-structured sample populations. <i>Animal Feed Science and Technology</i> , 1997 , 69, 281-287	3	15
72	Measurements of physical strength and their relationship to the chemical composition of four species of <i>Brachiaria</i> . <i>Animal Feed Science and Technology</i> , 2001 , 92, 149-158	3	15
71	Soil carbon sequestration in grazing systems: managing expectations. <i>Climatic Change</i> , 2020 , 161, 385-391	15	15
70	Viewpoint: Rigorous monitoring is necessary to guide food system transformation in the countdown to the 2030 global goals. <i>Food Policy</i> , 2021 , 104, 102163	5	15

69	Modelling the growth and utilisation of kikuyu grass (<i>Pennisetum clandestinum</i>) under grazing. 2. Model validation and analysis of management practices. <i>Agricultural Systems</i> , 2000 , 65, 99-111	6.1	14
68	The economic potential of residue management and fertilizer use to address climate change impacts on mixed smallholder farmers in Burkina Faso. <i>Agricultural Systems</i> , 2018 , 167, 195-205	6.1	14
67	Farm intensification and drivers of technology adoption in mixed dairy-crop systems in Santa Cruz, Bolivia. <i>Spanish Journal of Agricultural Research</i> , 2008 , 6, 279	1.1	13
66	Perspective article: Actions to reconfigure food systems. <i>Global Food Security</i> , 2020 , 26, 100432	8.3	12
65	Water Use in Global Livestock Production Opportunities and Constraints for Increasing Water Productivity. <i>Water Resources Research</i> , 2020 , 56, e2019WR026995	5.4	12
64	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
63	The impact of nutrient-rich food choices on agricultural water-use efficiency. <i>Nature Sustainability</i> , 2019 , 2, 233-241	22.1	11
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