# Mario Herrero

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6100200/publications.pdf

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| | | 5248 | 3714 |
|---|---|---|---|
| 231 | 35,422 | 83 | 179 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 248 | 248 | 248 | 32773 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Food in the Anthropocene: the EATâ€“Lancet Commission on healthy diets from sustainable food systems. Lancet, The, 2019, 393, 447-492. | 6.3 | 5,421 |
| 2 | Natural climate solutions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11645-11650. | 3.3 | 1,709 |
| 3 | Options for keeping the food system within environmental limits. Nature, 2018, 562, 519-525. | 13.7 | 1,709 |
| 4 | The Global Syndemic of Obesity, Undernutrition, and Climate Change: The Lancet Commission report. Lancet, The, 2019, 393, 791-846. | 6.3 | 1,638 |
| 5 | Sustainable Intensification in Agriculture: Premises and Policies. Science, 2013, 341, 33-34. | 6.0 | 1,233 |
| 6 | Biomass use, production, feed efficiencies, and greenhouse gas emissions from global livestock systems. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20888-20893. | 3.3 | 867 |
| 7 | Climate variability and vulnerability to climate change: a review. Global Change Biology, 2014, 20, 3313-3328. | 4.2 | 698 |
| 8 | 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. Agricultural Systems, 2009, 101, 113-127. | 3.2 | 668 |
| 9 | Smart Investments in Sustainable Food Production: Revisiting Mixed Crop-Livestock Systems. Science, 2010, 327, 822-825. | 6.0 | 633 |
| 10 | The marker quantification of the Shared Socioeconomic Pathway 2: A middle-of-the-road scenario for the 21st century. Global Environmental Change, 2017, 42, 251-267. | 3.6 | 590 |
| 11 | Greenhouse gas mitigation potentials in the livestock sector. Nature Climate Change, 2016, 6, 452-461. | 8.1 | 588 |
| 12 | Adapting agriculture to climate change in Kenya: Household strategies and determinants. Journal of Environmental Management, 2013, 114, 26-35. | 3.8 | 571 |
| 13 | Trends in Global Agricultural Land Use: Implications for Environmental Health and Food Security. Annual Review of Plant Biology, 2018, 69, 789-815. | 8.6 | 559 |
| 14 | A high-resolution assessment on global nitrogen flows in cropland. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8035-8040. | 3.3 | 470 |
| 15 | How much landâ€based greenhouse gas mitigation can be achieved without compromising food security and environmental goals?. Global Change Biology, 2013, 19, 2285-2302. | 4.2 | 454 |
| 16 | Greenhouse gas emissions intensity of globalÂcroplands. Nature Climate Change, 2017, 7, 63-68. | 8.1 | 414 |
| 17 | Bending the curve of terrestrial biodiversity needs an integrated strategy. Nature, 2020, 585, 551-556. | 13.7 | 413 |
| 18 | Climate change mitigation through livestock system transitions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3709-3714. | 3.3 | 407 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Mapping global cropland and field size. Global Change Biology, 2015, 21, 1980-1992. | 4.2 | 404 |
| 20 | Brief history of agricultural systems modeling. Agricultural Systems, 2017, 155, 240-254. | 3.2 | 403 |
| 21 | Communicating complexity: Integrated assessment of trade-offs concerning soil fertility management within African farming systems to support innovation and development. Agricultural Systems, 2011, 104, 191-203. | 3.2 | 339 |
| 22 | The roles of livestock in developing countries. Animal, 2013, 7, 3-18. | 1.3 | 319 |
| 23 | Beyond milk, meat, and eggs: Role of livestock in food and nutrition security. Animal Frontiers, 2013, 3, 6-13. | 0.8 | 306 |
| 24 | Innovation can accelerate the transition towards a sustainable food system. Nature Food, 2020, 1, 266-272. | 6.2 | 285 |
| 25 | Livestock, livelihoods and the environment: understanding the trade-offs. Current Opinion in Environmental Sustainability, 2009, 1, 111-120. | 3.1 | 281 |
| 26 | Subnational distribution of average farm size and smallholder contributions to global food production. Environmental Research Letters, 2016, 11, 124010. | 2.2 | 271 |
| 27 | Farming and the geography of nutrient production for human use: a transdisciplinary analysis. Lancet Planetary Health, The, 2017, 1, e33-e42. | 5.1 | 268 |
| 28 | Reducing emissions from agriculture to meet the 2ÂÂ°C target. Global Change Biology, 2016, 22, 3859-3864. | 4.2 | 267 |
| 29 | Toward a new generation of agricultural system data, models, and knowledge products: State of agricultural systems science. Agricultural Systems, 2017, 155, 269-288. | 3.2 | 261 |
| 30 | Sustaining intensification of smallholder livestock systems in the tropics. Livestock Science, 2010, 130, 95-109. | 0.6 | 256 |
| 31 | Livestock and global change: Emerging issues for sustainable food systems. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20878-20881. | 3.3 | 256 |
| 32 | Drivers of household food availability in sub-Saharan Africa based on big data from small farms. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 458-463. | 3.3 | 248 |
| 33 | Potential for reduced methane and carbon dioxide emissions from livestock and pasture management in the tropics. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19667-19672. | 3.3 | 247 |
| 34 | Climate change responses benefit from a global food system approach. Nature Food, 2020, 1, 94-97. | 6.2 | 235 |
| 35 | Livestock and the Environment: What Have We Learned in the Past Decade?. Annual Review of Environment and Resources, 2015, 40, 177-202. | 5.6 | 223 |
| 36 | Sustainable development must account for pandemic risk. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3888-3892. | 3.3 | 223 |

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|---|---|---|---|
| 37 | Defining a land boundary for sustainable livestock consumption. Global Change Biology, 2018, 24, 4185-4194. | 4.2 | 205 |
| 38 | Climate change perception and adaptation of agro-pastoral communities in Kenya. Regional Environmental Change, 2012, 12, 791-802. | 1.4 | 199 |
| 39 | The potential of future foods for sustainable and healthy diets. Nature Sustainability, 2018, 1, 782-789. | 11.5 | 197 |
| 40 | The environmental costs and benefits of high-yield farming. Nature Sustainability, 2018, 1, 477-485. | 11.5 | 193 |
| 41 | Cattle ranching intensification in Brazil can reduce global greenhouse gas emissions by sparing land from deforestation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7236-7241. | 3.3 | 182 |
| 42 | Mapping child growth failure in Africa between 2000 and 2015. Nature, 2018, 555, 41-47. | 13.7 | 177 |
| 43 | Impacts of climate change on the livestock food supply chain; a review of the evidence. Global Food Security, 2021, 28, 100488. | 4.0 | 177 |
| 44 | Gaps between fruit and vegetable production, demand, and recommended consumption at global and national levels: an integrated modelling study. Lancet Planetary Health, The, 2019, 3, e318-e329. | 5.1 | 176 |
| 45 | Adapting to climate change: Agricultural system and household impacts in East Africa. Agricultural Systems, 2010, 103, 73-82. | 3.2 | 172 |
| 46 | Adapting to climate change in the mixed crop and livestock farming systems in sub-Saharan Africa. Nature Climate Change, 2015, 5, 830-836. | 8.1 | 172 |
| 47 | Reducing greenhouse gas emissions in agriculture without compromising food security?. Environmental Research Letters, 2017, 12, 105004. | 2.2 | 172 |
| 48 | Challenges to scenario-guided adaptive action on food security under climate change. Global Environmental Change, 2014, 28, 383-394. | 3.6 | 167 |
| 49 | Assessing the land resourceâ€“food price nexus of the Sustainable Development Goals. Science Advances, 2016, 2, e1501499. | 4.7 | 162 |
| 50 | Food wedges: Framing the global food demand and supply challenge towards 2050. Global Food Security, 2014, 3, 125-132. | 4.0 | 161 |
| 51 | Integrated cropâ€“livestock simulation models for scenario analysis and impact assessment. Agricultural Systems, 2001, 70, 581-602. | 3.2 | 157 |
| 52 | Increasing importance of precipitation variability on global livestock grazing lands. Nature Climate Change, 2018, 8, 214-218. | 8.1 | 156 |
| 53 | Agricultural productivity and greenhouse gas emissions: trade-offs or synergies between mitigation and food security?. Environmental Research Letters, 2013, 8, 035019. | 2.2 | 144 |
| 54 | Articulating the effect of food systems innovation on the Sustainable Development Goals. Lancet Planetary Health, The, 2021, 5, e50-e62. | 5.1 | 135 |

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|---|---|---|---|
| 55 | Agricultural diversification as an important strategy for achieving food security in Africa. Global Change Biology, 2018, 24, 3390-3400. | 4.2 | 130 |
| 56 | A method for evaluating climate change adaptation strategies for small-scale farmers using survey, experimental and modeled data. Agricultural Systems, 2012, 111, 85-95. | 3.2 | 124 |
| 57 | Decoupling Livestock from Land Use through Industrial Feed Production Pathways. Environmental Science & Technology, 2018, 52, 7351-7359. | 4.6 | 124 |
| 58 | The vulnerabilities of agricultural land and food production to future water scarcity. Global Environmental Change, 2019, 58, 101944. | 3.6 | 120 |
| 59 | Climate change adaptation in mixed cropâ€“livestock systems in developing countries. Global Food Security, 2014, 3, 99-107. | 4.0 | 117 |
| 60 | Livestock and greenhouse gas emissions: The importance of getting the numbers right. Animal Feed Science and Technology, 2011, 166-167, 779-782. | 1.1 | 116 |
| 61 | Spatially explicit estimates of N‹sub›2‹/sub›O emissions from croplands suggest climate mitigation opportunities from improved fertilizer management. Global Change Biology, 2016, 22, 3383-3394. | 4.2 | 112 |
| 62 | Multiple cropping systems of the world and the potential for increasing cropping intensity. Global Environmental Change, 2020, 64, 102131. | 3.6 | 112 |
| 63 | Modelling the global economic consequences of a major African swine fever outbreak in China. Nature Food, 2020, 1, 221-228. | 6.2 | 112 |
| 64 | Chinaâ€™s future food demand and its implications for trade and environment. Nature Sustainability, 2021, 4, 1042-1051. | 11.5 | 112 |
| 65 | Competing use of organic resources, village-level interactions between farm types and climate variability in a communal area of NE Zimbabwe. Agricultural Systems, 2011, 104, 175-190. | 3.2 | 111 |
| 66 | Climate change impacts on selected global rangeland ecosystem services. Global Change Biology, 2018, 24, 1382-1393. | 4.2 | 111 |
| 67 | Viewpoint: Rigorous monitoring is necessary to guide food system transformation in the countdown to the 2030 global goals. Food Policy, 2021, 104, 102163. | 2.8 | 110 |
| 68 | Beyond climate-smart agriculture: toward safe operating spaces for global food systems. Agriculture and Food Security, 2013, 2, . | 1.6 | 109 |
| 69 | Income growth and climate change effects on global nutrition security to mid-century. Nature Sustainability, 2018, 1, 773-781. | 11.5 | 108 |
| 70 | Climate warming from managed grasslands cancels the cooling effect of carbon sinks in sparsely grazed and natural grasslands. Nature Communications, 2021, 12, 118. | 5.8 | 106 |
| 71 | High carbon and biodiversity costs from converting Africaâ€™s wet savannahs to cropland. Nature Climate Change, 2015, 5, 481-486. | 8.1 | 105 |
| 72 | Transitions in agro-pastoralist systems of East Africa: Impacts on food security and poverty. Agriculture, Ecosystems and Environment, 2013, 179, 215-230. | 2.5 | 104 |

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| 73 | Improved global cropland data as an essential ingredient for food security. Global Food Security, 2015, 4, 37-45. | 4.0 | 103 |
| 74 | Crop Productivity and the Global Livestock Sector: Implications for Land Use Change and Greenhouse Gas Emissions. American Journal of Agricultural Economics, 2013, 95, 442-448. | 2.4 | 102 |
| 75 | Systems dynamics and the spatial distribution of methane emissions from African domestic ruminants to 2030. Agriculture, Ecosystems and Environment, 2008, 126, 122-137. | 2.5 | 100 |
| 76 | Exploring future changes in smallholder farming systems by linking socio-economic scenarios with regional and household models. Global Environmental Change, 2014, 24, 165-182. | 3.6 | 100 |
| 77 | Towards a new generation of agricultural system data, models and knowledge products: Design and improvement. Agricultural Systems, 2017, 155, 255-268. | 3.2 | 99 |
| 78 | Livestock policy for sustainable development. Nature Food, 2020, 1, 160-165. | 6.2 | 97 |
| 79 | A framework for priority-setting in climate smart agriculture research. Agricultural Systems, 2018, 167, 161-175. | 3.2 | 95 |
| 80 | Linking agricultural adaptation strategies, food security and vulnerability: evidence from West Africa. Regional Environmental Change, 2016, 16, 1305-1317. | 1.4 | 93 |
| 81 | Coping Strategies in Livestock-dependent Households in East and Southern Africa: A Synthesis of Four Case Studies. Human Ecology, 2007, 35, 461-476. | 0.7 | 92 |
| 82 | LivestockPlus - The sustainable intensification of forage-based agricultural systems to improve livelihoods and ecosystem services in the tropics. Tropical Grasslands - Forrajes Tropicales, 2015, 3, 59. | 0.1 | 92 |
| 83 | The role of personal information sources on the decision-making process of Costa Rican dairy farmers. Agricultural Systems, 2003, 76, 3-18. | 3.2 | 90 |
| 84 | The role of trade in the greenhouse gas footprints of EU diets. Global Food Security, 2018, 19, 48-55. | 4.0 | 89 |
| 85 | Pathways for sustainable development of mixed crop livestock systems: Taking a livestock and pro-poor approach. Livestock Science, 2011, 139, 11-21. | 0.6 | 87 |
| 86 | Microbes and the Next Nitrogen Revolution. Environmental Science & Technology, 2017, 51, 7297-7303. | 4.6 | 85 |
| 87 | Bundling innovations to transform agri-food systems. Nature Sustainability, 2020, 3, 974-976. | 11.5 | 85 |
| 88 | Food Access Deficiencies in Sub-saharan Africa: Prevalence and Implications for Agricultural Interventions. Frontiers in Sustainable Food Systems, 2019, 3, . | 1.8 | 85 |
| 89 | Livestock in a changing climate: production system transitions as an adaptation strategy for agriculture. Environmental Research Letters, 2015, 10, 094021. | 2.2 | 84 |
| 90 | Beyond resource constraints â€“ Exploring the biophysical feasibility of options for the intensification of smallholder crop-livestock systems in Vihiga district, Kenya. Agricultural Systems, 2009, 101, 1-19. | 3.2 | 83 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Reâ€framing the climate change debate in the livestock sector: mitigation and adaptation options. Wiley Interdisciplinary Reviews: Climate Change, 2016, 7, 869-892. | 3.6 | 83 |
| 92 | Can agriculture support climate change adaptation, greenhouse gas mitigation and rural livelihoods? insights from Kenya. Climatic Change, 2013, 118, 151-165. | 1.7 | 81 |
| 93 | Opinion paper: The role of livestock in a sustainable diet: a land-use perspective. Animal, 2016, 10, 547-549. | 1.3 | 80 |
| 94 | A research vision for food systems in the 2020s: Defying the status quo. Global Food Security, 2020, 26, 100397. | 4.0 | 78 |
| 95 | Revisiting enteric methane emissions from domestic ruminants and their Î´13CCH4 source signature. Nature Communications, 2019, 10, 3420. | 5.8 | 75 |
| 96 | Bio-economic evaluation of farmersâ€™ perceptions of viable farms in western Kenya. Agricultural Systems, 2006, 90, 243-271. | 3.2 | 73 |
| 97 | Grazing systems expansion and intensification: Drivers, dynamics, and trade-offs. Global Food Security, 2018, 16, 93-105. | 4.0 | 69 |
| 98 | Assessing water resource use in livestock production: A review of methods. Livestock Science, 2016, 187, 68-79. | 0.6 | 68 |
| 99 | 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. Agricultural Systems, 2017, 151, 153-162. | 3.2 | 67 |
| 100 | Modeling Extended Lactations of Dairy Cows. Journal of Dairy Science, 2000, 83, 1371-1380. | 1.4 | 66 |
| 101 | The Need for Improved Maps of Global Cropland. Eos, 2013, 94, 31-32. | 0.1 | 66 |
| 102 | Water Use in Global Livestock Productionâ€"Opportunities and Constraints for Increasing Water Productivity. Water Resources Research, 2020, 56, e2019WR026995. | 1.7 | 66 |
| 103 | Global rangeland production systems and livelihoods at threat under climate change and variability. Environmental Research Letters, 2020, 15, 044021. | 2.2 | 66 |
| 104 | Increases in extreme heat stress in domesticated livestock species during the twentyâ€first century. Global Change Biology, 2021, 27, 5762-5772. | 4.2 | 65 |
| 105 | Climate change induced transformations of agricultural systems: insights from a global model. Environmental Research Letters, 2014, 9, 124018. | 2.2 | 64 |
| 106 | Identifying key entry-points for strategic management of smallholder farming systems in sub-Saharan Africa using the dynamic farm-scale simulation model NUANCES-FARMSIM. Agricultural Systems, 2009, 102, 89-101. | 3.2 | 63 |
| 107 | Integrating crops and livestock in subtropical agricultural systems. Journal of the Science of Food and Agriculture, 2012, 92, 1010-1015. | 1.7 | 63 |
| 108 | Intensification pathways for beef and dairy cattle production systems: Impacts on GHG emissions, land occupation and land use change. Agriculture, Ecosystems and Environment, 2017, 240, 135-147. | 2.5 | 62 |

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|---|---|---|---|
| 109 | Quantification of uncertainties in global grazing systems assessment. Global Biogeochemical Cycles, 2017, 31, 1089-1102. | 1.9 | 62 |
| 110 | Farm household models to analyse food security in a changing climate: A review. Global Food Security, 2014, 3, 77-84. | 4.0 | 60 |
| 111 | Effect of climate change, CO<sub>2</sub> trends, nitrogen addition, and landâ€cover and management intensity changes on the carbon balance of European grasslands. Global Change Biology, 2016, 22, 338-350. | 4.2 | 60 |
| 112 | Bio-economic evaluation of dairy farm management scenarios using integrated simulation and multiple-criteria models. Agricultural Systems, 1999, 62, 169-188. | 3.2 | 59 |
| 113 | Comparison of Models for Describing the Lactation Curve of Latxa Sheep and an Analysis of Factors Affecting Milk Yield. Journal of Dairy Science, 2000, 83, 2709-2719. | 1.4 | 59 |
| 114 | Impacts of heat stress on global cattle production during the 21st century: a modelling study. Lancet Planetary Health, The, 2022, 6, e192-e201. | 5.1 | 59 |
| 115 | Is production intensification likely to make farm households food-adequate? A simple food availability analysis across smallholder farming systems from East and West Africa. Food Security, 2017, 9, 115-131. | 2.4 | 58 |
| 116 | Climate change and pastoralism: impacts, consequences and adaptation. OIE Revue Scientifique Et Technique, 2016, 35, 417-433. | 0.5 | 58 |
| 117 | Maasai perception of the impact and incidence of malignant catarrhal fever (MCF) in southern Kenya. Preventive Veterinary Medicine, 2007, 78, 296-316. | 0.7 | 56 |
| 118 | Derivation of a household-level vulnerability index for empirically testing measures of adaptive capacity and vulnerability. Regional Environmental Change, 2013, 13, 459-470. | 1.4 | 56 |
| 119 | Implications of alternative metrics for global mitigation costs and greenhouse gas emissions from agriculture. Climatic Change, 2013, 117, 677-690. | 1.7 | 56 |
| 120 | Income, consumer preferences, and the future of livestock-derived food demand. Global Environmental Change, 2021, 70, 102343. | 3.6 | 56 |
| 121 | Structural change as a key component for agricultural non-CO2 mitigation efforts. Nature Communications, 2018, 9, 1060. | 5.8 | 52 |
| 122 | New feed sources key to ambitious climate targets. Carbon Balance and Management, 2015, 10, 26. | 1.4 | 51 |
| 123 | Seasonality constraints to livestock grazing intensity. Global Change Biology, 2017, 23, 1636-1647. | 4.2 | 51 |
| 124 | Characterising objective profiles of Costa Rican dairy farmers. Agricultural Systems, 2001, 67, 153-179. | 3.2 | 49 |
| 125 | Lifetime productivity of dairy cows in smallholder farming systems of the Central highlands of Kenya. Animal, 2009, 3, 1044-1056. | 1.3 | 49 |
| 126 | Closing system-wide yield gaps to increase food production and mitigate GHGs among mixed cropâ€“livestock smallholders in Sub-Saharan Africa. Agricultural Systems, 2016, 143, 106-113. | 3.2 | 49 |

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|---|---|---|---|
| 127 | Climate change and variability impacts on grazing herds: Insights from a system dynamics approach for semiâ€arid Australian rangelands. Global Change Biology, 2019, 25, 3091-3109. | 4.2 | 49 |
| 128 | How necessary and feasible are reductions of methane emissions from livestock to support stringent temperature goals?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200452. | 1.6 | 49 |
| 129 | IMPACT: Generic household-level databases and diagnostics tools for integrated crop-livestock systems analysis. Agricultural Systems, 2007, 92, 240-265. | 3.2 | 48 |
| 130 | Five priorities to operationalize the EATâ€“Lancet Commission report. Nature Food, 2020, 1, 457-459. | 6.2 | 47 |
| 131 | The influence of diet of the donor animal on the initial bacterial concentration of ruminal fluid and in vitro gas production degradability parameters. Animal Feed Science and Technology, 2000, 87, 231-239. | 1.1 | 46 |
| 132 | Agricultural intensification scenarios, household food availability and greenhouse gas emissions in Rwanda: Ex-ante impacts and trade-offs. Agricultural Systems, 2018, 163, 16-26. | 3.2 | 45 |
| 133 | The Inter-Linkages Between Rapid Growth In Livestock Production, Climate Change, And The Impacts On Water Resources, Land Use, And Deforestation. Policy Research Working Papers, 2010, , . | 1.4 | 45 |
| 134 | Prioritizing climate-smart livestock technologies in rural Tanzania: A minimum data approach. Agricultural Systems, 2017, 151, 204-216. | 3.2 | 44 |
| 135 | Circularity in animal production requires a change in the EAT-Lancet diet in Europe. Nature Food, 2022, 3, 66-73. | 6.2 | 44 |
| 136 | Relationships between management intensity and structural and social variables in dairy and dual-purpose systems in Santa Cruz, Bolivia. Agricultural Systems, 2000, 65, 159-177. | 3.2 | 42 |
| 137 | Using farmer decision-making profiles and managerial capacity as predictors of farm management and performance in Costa Rican dairy farms. Agricultural Systems, 2006, 88, 395-428. | 3.2 | 42 |
| 138 | Yield gap analyses to estimate attainable bovine milk yields and evaluate options to increase production in Ethiopia and India. Agricultural Systems, 2017, 155, 43-51. | 3.2 | 42 |
| 139 | Pathways to carbon-neutrality for the Australian red meat sector. Agricultural Systems, 2019, 175, 13-21. | 3.2 | 42 |
| 140 | Historical trade-offs of livestockâ€™s environmental impacts. Environmental Research Letters, 2015, 10, 125013. | 2.2 | 41 |
| 141 | Interactions between intervention packages, climatic risk, climate change and food security in mixed cropâ€“livestock systems in Burkina Faso. Agricultural Systems, 2017, 151, 217-224. | 3.2 | 41 |
| 142 | Carbon emission avoidance and capture by producing in-reactor microbial biomass based food, feed and slow release fertilizer: Potentials and limitations. Science of the Total Environment, 2018, 644, 1525-1530. | 3.9 | 39 |
| 143 | MAKING THE MOST OF IMPERFECT DATA: A CRITICAL EVALUATION OF STANDARD INFORMATION COLLECTED IN FARM HOUSEHOLD SURVEYS. Experimental Agriculture, 2019, 55, 230-250. | 0.4 | 39 |
| 144 | The Key Role of Production Efficiency Changes in Livestock Methane Emission Mitigation. AGU Advances, 2021, 2, e2021AV000391. | 2.3 | 39 |

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| 145 | Measurements of physical strength and their relationship to the chemical composition of four species of Brachiaria. Animal Feed Science and Technology, 2001, 92, 149-158. | 1.1 | 38 |
| 146 | Carbon sequestration and farm income in West Africa: Identifying best management practices for smallholder agricultural systems in northern Ghana. Ecological Economics, 2008, 67, 492-502. | 2.9 | 38 |
| 147 | Challenges and opportunities for improving eco-efficiency of tropical forage-based systems to mitigate greenhouse gas emissions. Tropical Grasslands - Forrajes Tropicales, 2013, 1, 156. | 0.1 | 37 |
| 148 | Roll-out of the Global Burden of Animal Diseases programme. Lancet, The, 2021, 397, 1045-1046. | 6.3 | 36 |
| 149 | The environmental costs and benefits of high-yield farming. Nature Sustainability, 2018, 1, 477-485. | 11.5 | 36 |
| 150 | Combining livestock production information in a process-based vegetation model to reconstruct the history of grassland management. Biogeosciences, 2016, 13, 3757-3776. | 1.3 | 34 |
| 151 | Economic values for production and functional traits in Holstein cattle of Costa Rica. Livestock Science, 2002, 75, 101-116. | 1.2 | 33 |
| 152 | India has natural resource capacity to achieve nutrition security, reduce health risks and improve environmental sustainability. Nature Food, 2020, 1, 631-639. | 6.2 | 32 |
| 153 | Prediction of the in vitro gas production and chemical composition of kikuyu grass by near-infrared reflectance spectroscopy. Animal Feed Science and Technology, 1996, 60, 51-67. | 1.1 | 30 |
| 154 | Policies in support of pastoralism and biodiversity in the heterogeneous drylands of East Africa. Pastoralism, 2012, 2, 14. | 0.3 | 29 |
| 155 | Reducing uncertainty in nitrogen budgets for African livestock systems. Environmental Research Letters, 2014, 9, 105008. | 2.2 | 29 |
| 156 | Hotspots of gross emissions from the land use sector: patterns, uncertainties, and leading emission sources for the period 2000â€“2005 in the tropics. Biogeosciences, 2016, 13, 4253-4269. | 1.3 | 29 |
| 157 | Livestock wealth and social capital as insurance against climate risk: A case study of Samburu County in Kenya. Agricultural Systems, 2016, 146, 44-54. | 3.2 | 29 |
| 158 | Soil carbon sequestration in grazing systems: managing expectations. Climatic Change, 2020, 161, 385-391. | 1.7 | 29 |
| 159 | Modelling the growth and utilisation of kikuyu grass (Pennisetum clandestinum) under grazing. 1. Model definition and parameterisation. Agricultural Systems, 2000, 65, 73-97. | 3.2 | 28 |
| 160 | The future of human behaviour research. Nature Human Behaviour, 2022, 6, 15-24. | 6.2 | 28 |
| 161 | An integrated evaluation of strategies for enhancing productivity and profitability of resource-constrained smallholder farms in Zimbabwe. Agricultural Systems, 2009, 101, 57-68. | 3.2 | 27 |
| 162 | The Role of Healthy Diets in Environmentally Sustainable Food Systems. Food and Nutrition Bulletin, 2020, 41, 31S-58S. | 0.5 | 27 |

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|---|---|---|---|
| 163 | Global trends in grassland carrying capacity and relative stocking density of livestock. Global Change Biology, 2022, 28, 3902-3919. | 4.2 | 27 |
| 164 | A Decision Support System for smallholder campesino maizeâ€“cattle production systems of the Toluca Valley in Central Mexico. Part Iâ€”Integrating biological and socio-economic models into a holistic system. Agricultural Systems, 2003, 75, 1-21. | 3.2 | 26 |
| 165 | What can COVID-19 teach us about responding to climate change?. Lancet Planetary Health, The, 2020, 4, e174. | 5.1 | 26 |
| 166 | Livestock Water Use and Productivity in the Nile Basin. Ecosystems, 2010, 13, 205-221. | 1.6 | 25 |
| 167 | The evolution and evaluation of dairy cattle models for predicting milk production: an agricultural model intercomparison and improvement project (AgMIP) for livestock. Animal Production Science, 2014, 54, 2052. | 0.6 | 25 |
| 168 | Livelihoods and food security in an urban linked, high potential region of Tanzania: Changes over a three year period. Agricultural Systems, 2018, 160, 87-95. | 3.2 | 24 |
| 169 | Perspective article: Actions to reconfigure food systems. Global Food Security, 2020, 26, 100432. | 4.0 | 24 |
| 170 | Identifying recommendation domains for targeting dual-purpose maize-based interventions in crop-livestock systems in East Africa. Land Use Policy, 2013, 30, 834-846. | 2.5 | 23 |
| 171 | Integrating livestock feeds and production systems into agricultural multi-market models: The example of IMPACT. Food Policy, 2014, 49, 365-377. | 2.8 | 23 |
| 172 | The economic potential of residue management and fertilizer use to address climate change impacts on mixed smallholder farmers in Burkina Faso. Agricultural Systems, 2018, 167, 195-205. | 3.2 | 23 |
| 173 | Closing yield gaps in smallholder goat production systems in Ethiopia and India. Livestock Science, 2018, 214, 238-244. | 0.6 | 22 |
| 174 | The value of climate-resilient seeds for smallholder adaptation in sub-Saharan Africa. Climatic Change, 2020, 162, 1213-1229. | 1.7 | 22 |
| 175 | Improved feeding and forages at a crossroads: Farming systems approaches for sustainable livestock development in East Africa. Outlook on Agriculture, 2020, 49, 13-20. | 1.8 | 21 |
| 176 | Shearing strength as an additional selection criterion for quality in Brachiaria pasture ecotypes. Journal of Agricultural Science, 2000, 135, 123-130. | 0.6 | 20 |
| 177 | The power and pain of market-based carbon policies: a global application to greenhouse gases from ruminant livestock production. Mitigation and Adaptation Strategies for Global Change, 2018, 23, 349-369. | 1.0 | 20 |
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