

# Cletos Mapiye

## List of Publications by Year in descending order

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114  
papers

2,492  
citations

201385

27  
h-index

264894

42  
g-index

115  
all docs

115  
docs citations

115  
times ranked

1990  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nutritional enhancement of sheep meat fatty acid profile for human health and wellbeing. Food Research International, 2018, 104, 25-38.	2.9	128
2	Opportunities for improving Nguni cattle production in the smallholder farming systems of South Africa. Livestock Science, 2009, 124, 196-204.	0.6	85
3	The scope for manipulating the polyunsaturated fatty acid content of beef: a review. Journal of Animal Science and Biotechnology, 2015, 6, 29.	2.1	83
4	Bioactivity and health effects of ruminant meat lipids. Invited Review. Meat Science, 2020, 165, 108114.	2.7	81
5	Pork as a Source of Omega-3 (n-3) Fatty Acids. Journal of Clinical Medicine, 2015, 4, 1999-2011.	1.0	76
6	The labile lipid fraction of meat: From perceived disease and waste to health and opportunity. Meat Science, 2012, 92, 210-220.	2.7	73
7	Effects of feeding flaxseed or sunflower-seed in high-forage diets on beef production, quality and fatty acid composition. Meat Science, 2013, 95, 98-109.	2.7	70
8	Conservation of indigenous cattle genetic resources in Southern Africa's smallholder areas: turning threats into opportunities – A review. Asian-Australasian Journal of Animal Sciences, 2017, 30, 603-621.	2.4	70
9	A Research Review of Village Chicken Production Constraints and Opportunities in Zimbabwe. Asian-Australasian Journal of Animal Sciences, 2008, 21, 1680-1688.	2.4	66
10	Fatty acid composition of beef from Nguni steers supplemented with Acacia karroo leaf-meal. Journal of Food Composition and Analysis, 2011, 24, 523-528.	1.9	64
11	Flaxseed fed pork: n-3 fatty acid enrichment and contribution to dietary recommendations. Meat Science, 2014, 96, 541-547.	2.7	53
12	Seroprevalence of tick-borne diseases in communal cattle reared on sweet and sour rangelands in a semi-arid area of South Africa. Veterinary Journal, 2010, 184, 71-76.	0.6	49
13	Nutritional status, growth performance and carcass characteristics of Nguni steers supplemented with Acacia karroo leaf-meal. Livestock Science, 2009, 126, 206-214.	0.6	47
14	Utility of Acacia karroo for beef production in Southern African smallholder farming systems: A review. Animal Feed Science and Technology, 2011, 164, 135-146.	1.1	47
15	The trans-octadecenoic fatty acid profile of beef: Implications for global food and nutrition security. Food Research International, 2015, 76, 992-1000.	2.9	45
16	Grape pomace (Vitis vinifera L. cv. Pinotage) supplementation in lamb diets: Effects on growth performance, carcass and meat quality. Meat Science, 2019, 147, 6-12.	2.7	45
17	Towards household food and nutrition security in semi-arid areas: What role for condensed tannin-rich ruminant feedstuffs?. Food Research International, 2015, 76, 953-961.	2.9	41
18	Meat quality of Nguni steers supplemented with Acacia karroo leaf-meal. Meat Science, 2010, 84, 621-627.	2.7	40

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19	Seasonal dynamics, production potential and efficiency of cattle in the sweet and sour communal rangelands in South Africa. <i>Journal of Arid Environments</i> , 2009, 73, 529-536.	1.2	38
20	Determinants of smallholder farmers's perceptions of impact of climate change on beef production in Malawi. <i>Climatic Change</i> , 2017, 142, 129-141.	1.7	38
21	Adipose tissue and muscle fatty acid profiles of steers fed red clover silage with and without flaxseed. <i>Livestock Science</i> , 2013, 151, 11-20.	0.6	36
22	Bioavailability and Bioefficacy of Hemp By-Products in Ruminant Meat Production and Preservation: A Review. <i>Frontiers in Veterinary Science</i> , 2020, 7, 572906.	0.9	36
23	Dietary citrus pulp and grape pomace as potential natural preservatives for extending beef shelf life. <i>Meat Science</i> , 2020, 162, 108029.	2.7	33
24	Varietal differences in nutrient, amino acid and mineral composition and in vitro rumen digestibility of grape ( <i>Vitis vinifera</i> ) pomace from the Cape Winelands vineyards in South Africa and impact of preservation techniques. <i>Industrial Crops and Products</i> , 2018, 118, 30-37.	2.5	31
25	Southern African indigenous fruits and their byproducts: Prospects as food antioxidants. <i>Journal of Functional Foods</i> , 2020, 75, 104220.	1.6	31
26	Subcutaneous Adipose Fatty Acid Profiles and Related Rumen Bacterial Populations of Steers Fed Red Clover or Grass Hay Diets Containing Flax or Sunflower-Seed. <i>PLoS ONE</i> , 2014, 9, e104167.	1.1	31
27	Citrus and Winery Wastes: Promising Dietary Supplements for Sustainable Ruminant Animal Nutrition, Health, Production, and Meat Quality. <i>Sustainability</i> , 2018, 10, 3718.	1.6	30
28	Effects of feeding increasing levels of grape ( <i>Vitis vinifera</i> cv. Pinotage) pomace on lamb shelf-life and eating quality. <i>Meat Science</i> , 2019, 157, 107887.	2.7	29
29	Tick loads in cattle raised on sweet and sour rangelands in the low-input farming areas of South Africa. <i>Tropical Animal Health and Production</i> , 2011, 43, 307-313.	0.5	27
30	Isolation of $\omega$ -linolenic acid biohydrogenation products by combined silver ion solid phase extraction and semi-preparative high performance liquid chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 980, 34-40.	1.2	27
31	Strategies for Sustainable Use of Indigenous Cattle Genetic Resources in Southern Africa. <i>Diversity</i> , 2019, 11, 214.	0.7	27
32	Supplements containing Acacia karroo foliage reduce nematode burdens in Nguni and crossbred cattle. <i>Animal Production Science</i> , 2009, 49, 646.	0.6	27
33	Effect of supplementing a high-protein ram press sunflower cake concentrate on smallholder milk production in Zimbabwe. <i>Tropical Animal Health and Production</i> , 2007, 39, 297-307.	0.5	26
34	Dietary influence on the m. longissimus dorsi fatty acid composition of lambs in relation to protein source. <i>Meat Science</i> , 2012, 91, 472-477.	2.7	26
35	Towards a Revolutionized Agricultural Extension System for the Sustainability of Smallholder Livestock Production in Developing Countries: The Potential Role of ICTs. <i>Sustainability</i> , 2021, 13, 5868.	1.6	26
36	Limitations and prospects of improving beef cattle production in the smallholder sector: a case of Limpopo Province, South Africa. <i>Tropical Animal Health and Production</i> , 2018, 50, 1711-1725.	0.5	24

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37	Influence of feeding fruit by-products as alternative dietary fibre sources to wheat bran on beef production and quality of Angus steers. <i>Meat Science</i> , 2020, 161, 107969.	2.7	23
38	Milk production and calf rearing practices in the smallholder areas in the Eastern Cape Province of South Africa. <i>Tropical Animal Health and Production</i> , 2009, 41, 1475-1485.	0.5	22
39	Food Preservative Capabilities of Grape ( <i>Vitis vinifera</i> ) and Clementine Mandarin ( <i>Citrus reticulata</i> ) By-products Extracts in South Africa. <i>Sustainability</i> , 2019, 11, 1746.	1.6	22
40	Influence of $\alpha$ -tocopherol supplementation on trans-18:1 and conjugated linoleic acid profiles in beef from steers fed a barley-based diet. <i>Animal</i> , 2012, 6, 1888-1896.	1.3	21
41	Influence of socioeconomic factors on production constraints faced by indigenous chicken producers in South Africa. <i>Tropical Animal Health and Production</i> , 2012, 45, 67-74.	0.5	21
42	Indicator-based sustainability assessment of the smallholder beef cattle production system in South Africa. <i>Agroecology and Sustainable Food Systems</i> , 2017, 41, 3-29.	1.0	21
43	Livelihood, Food and Nutrition Security in Southern Africa: What Role Do Indigenous Cattle Genetic Resources Play?. <i>Diversity</i> , 2020, 12, 74.	0.7	21
44	Determinants and opportunities for commercial marketing of beef cattle raised on communally owned natural pastures in South Africa. <i>African Journal of Range and Forage Science</i> , 2016, 33, 199-206.	0.6	20
45	Ovarian activity, conception and pregnancy patterns of cows in the semiarid communal rangelands in the Eastern Cape Province of South Africa. <i>Animal Reproduction Science</i> , 2010, 118, 140-147.	0.5	19
46	Fatty acid, amino acid and mineral composition of milk from Nguni and local crossbred cows in South Africa. <i>Journal of Food Composition and Analysis</i> , 2011, 24, 529-536.	1.9	19
47	Individual <i>trans</i> 18:1 Isomers are Metabolised Differently and Have Distinct Effects on Lipogenesis in 3T3L1 Adipocytes. <i>Lipids</i> , 2015, 50, 195-204.	0.7	19
48	Effects of diets supplemented with sunflower or flax seeds on quality and fatty acid profile of hamburgers made with perirenal or subcutaneous fat. <i>Meat Science</i> , 2015, 99, 123-131.	2.7	19
49	Growth Performance of Guinea Fowl Keets Fed Graded Levels of Baobab Seed Cake Diets. <i>International Journal of Poultry Science</i> , 2008, 7, 429-432.	0.6	19
50	Farmers' perceptions of the causes of low reproductive performance in cows kept under low-input communal production systems in South Africa. <i>Tropical Animal Health and Production</i> , 2011, 43, 315-321.	0.5	18
51	Impact of dehydration on retention of bioactive profile and biological activities of different grape ( <i>Vitis vinifera</i> L.) pomace varieties. <i>Animal Feed Science and Technology</i> , 2018, 244, 116-127.	1.1	18
52	Biopreservative efficacy of grape ( <i>Vitis vinifera</i> ) and clementine mandarin orange ( <i>Citrus reticulata</i> ) by-product extracts in raw ground beef patties. <i>Meat Science</i> , 2021, 181, 108609.	2.7	18
53	Predicting fat quality from pigs fed reduced-oil corn dried distillers grains with solubles by near infrared reflectance spectroscopy: Fatty acid composition and iodine value. <i>Meat Science</i> , 2014, 98, 585-590.	2.7	17
54	Protein Status of Indigenous Nguni and Crossbred Cattle in the Semi-arid Communal Rangelands in South Africa. <i>Asian-Australasian Journal of Animal Sciences</i> , 2010, 23, 213-225.	2.4	17

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55	Growth performance and carcass characteristics of indigenous Mukota pigs of Zimbabwe. <i>Tropical Animal Health and Production</i> , 2010, 42, 1001-1007.	0.5	16
56	Towards a regional beef carcass classification system for Southern Africa. <i>South African Journal of Animal Sciences</i> , 2017, 47, 408.	0.2	16
57	Management information sources and communication strategies for commercially oriented smallholder beef cattle producers in Limpopo province, South Africa. <i>Outlook on Agriculture</i> , 2020, 49, 50-56.	1.8	16
58	Livestock as a buffer against HIV and AIDS income shocks in the rural households of Zimbabwe. <i>Development Southern Africa</i> , 2008, 25, 75-82.	1.1	15
59	Genetic Traits of Relevance to Sustainability of Smallholder Sheep Farming Systems in South Africa. <i>Sustainability</i> , 2017, 9, 1225.	1.6	15
60	Unpacking the "Emergent Farmer" Concept in Agrarian Reform: Evidence from Livestock Farmers in South Africa. <i>Development and Change</i> , 2019, 50, 1664-1686.	2.0	15
61	Feed inventory and smallholder farmers' perceived causes of feed shortage for dairy cattle in Gisagara District, Rwanda. <i>Tropical Animal Health and Production</i> , 2012, 44, 1459-1468.	0.5	14
62	Constraints to the sustainability of a "systematised" approach to livestock marketing amongst smallholder cattle producers in South Africa. <i>International Journal of Agricultural Sustainability</i> , 2019, 17, 189-204.	1.3	14
63	<i>Sericea lespedeza</i> ( <i>Lespedeza juncea</i> var. <i>sericea</i> ) for sustainable small ruminant production: Feed, helminth suppressant and meat preservation capabilities. <i>Animal Feed Science and Technology</i> , 2020, 270, 114688.	1.1	13
64	Indigenous Slaughter Techniques: Effects on Meat Physico-Chemical Characteristics of Nguni Goats. <i>Animals</i> , 2021, 11, 858.	1.0	13
65	Seasonal Changes in Energy-related Blood Metabolites and Mineral Profiles of Nguni and Crossbred Cattle on Communal Rangelands in the Eastern Cape, South Africa. <i>Asian-Australasian Journal of Animal Sciences</i> , 2010, 23, 708-718.	2.4	12
66	<i>Trans-18:1</i> in ruminant meats: A review. <i>Lipids</i> , 2021, 56, 539-562.	0.7	12
67	Advancing a holistic systems approach for sustainable cattle development programmes in South Africa: insights from sustainability assessments. <i>Agroecology and Sustainable Food Systems</i> , 2020, 44, 827-858.	1.0	11
68	Comparative effects of feeding citrus pulp and grape pomace on nutrient digestibility and utilization in steers. <i>Animal</i> , 2021, 15, 100020.	1.3	11
69	Fatty acid composition of beef steers as affected by diet and fat depot. <i>South African Journal of Animal Sciences</i> , 2015, 45, 386.	0.2	10
70	Beef traders' and consumers' perceptions on the development of a natural pasture-fed beef brand by smallholder cattle producers in South Africa. <i>African Journal of Range and Forage Science</i> , 2016, 33, 207-214.	0.6	10
71	Beef Fat Enriched with Polyunsaturated Fatty Acid Biohydrogenation Products Improves Insulin Sensitivity Without Altering Dyslipidemia in Insulin Resistant JCR:LA Rats. <i>Lipids</i> , 2016, 51, 821-831.	0.7	10
72	Information and communication technologies (ICTs): The potential for enhancing the dissemination of agricultural information and services to smallholder farmers in sub-Saharan Africa. <i>Information Development</i> , 2023, 39, 638-658.	1.4	10

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73	A trans 10-18:1 enriched fraction from beef fed a barley grain-based diet induces lipogenic gene expression and reduces viability of HepG2 cells. <i>Biochemistry and Biophysics Reports</i> , 2016, 7, 84-90.	0.7	9
74	Impact of water scarcity on dryland sheep meat production and quality: Key recovery and resilience strategies. <i>Journal of Arid Environments</i> , 2021, 190, 104511.	1.2	9
75	Short Communication: Erythrocytes assayed early ante mortem can predict adipose tissue and muscle trans-18:1 isomeric profiles of steers fed red clover silage supplemented with flaxseed. <i>Canadian Journal of Animal Science</i> , 2013, 93, 149-153.	0.7	8
76	Polyunsaturated Fatty Acid Biosynthesis and Metabolism in Agriculturally Important Species. , 2018, , 61-86.		8
77	Polyunsaturated fatty acid, volatile and sensory profiles of beef from steers fed citrus pulp or grape pomace. <i>Food Research International</i> , 2021, 139, 109923.	2.9	8
78	Ruminant meat production and quality enhancement, nematode suppression and greenhouse gas emission mitigation: A sustainable paradigm for valorisation of Acacia leaves. <i>Animal Feed Science and Technology</i> , 2022, 284, 115187.	1.1	8
79	Inclusion of sunflower seed and wheat dried distillers' grains with solubles in a red clover silage-based diet enhances steers performance, meat quality and fatty acid profiles. <i>Animal</i> , 2014, 8, 1999-2010.	1.3	7
80	Types of Oilseed and Adipose Tissue Influence the Composition and Relationships of Polyunsaturated Fatty Acid Biohydrogenation Products in Steers Fed a Grass Hay Diet. <i>Lipids</i> , 2014, 49, 275-286.	0.7	7
81	Sunflower Based Rations for Small-Medium Milk Producing Dairy Cows. <i>Pakistan Journal of Nutrition</i> , 2009, 8, 377-383.	0.2	7
82	Nutraceutical and preservative potential of <i>Acacia mearnsii</i> and <i>Acacia dealbata</i> leaves for ruminant production and product quality enhancement. <i>Journal of Agricultural Science</i> , 2021, 159, 743-756.	0.6	7
83	Chevon production and quality of Kalahari Red goats fed increasing levels of hempseed cake substituted for soybean meal. <i>Meat Science</i> , 2022, 187, 108749.	2.7	7
84	Milk utilisation patterns in the low-input production systems in South Africa. <i>Tropical Animal Health and Production</i> , 2010, 42, 1413-1419.	0.5	6
85	Improving beef hamburger quality and fatty acid profiles through dietary manipulation and exploitation of fat depot heterogeneity. <i>Journal of Animal Science and Biotechnology</i> , 2014, 5, 54.	2.1	6
86	Towards a system-specific framework for the sustainability evaluation of low-input ruminant meat production systems in developing countries. <i>Ecological Indicators</i> , 2018, 85, 1081-1091.	2.6	6
87	Carcass and meat quality attributes of Malawi Zebu steers fed <i>Vachellia polyacantha</i> leaves or <i>Adansonia digitata</i> seed as alternative protein sources to <i>Glycine max</i> . <i>South African Journal of Animal Sciences</i> , 2019, 49, 395.	0.2	6
88	Application of system dynamics modelling in evaluating sustainability of low-input ruminant farming systems in Eastern Cape Province, South Africa. <i>Ecological Modelling</i> , 2020, 438, 109294.	1.2	6
89	Changes in Metabolites Concentration in Nguni and Crossbred Calves on Natural Pasture. <i>Asian-Australasian Journal of Animal Sciences</i> , 2011, 24, 1569-1576.	2.4	6
90	Performance of Mashona doelings supplemented with different levels of velvet bean ( <i>Mucuna</i> )	0.5	5

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91	Physicochemical properties of breast meat from water-stressed naked-neck and Ovambo chickens. <i>British Poultry Science</i> , 2014, 55, 197-206.	0.8	5
92	Double Bond Position Plays an Important Role in Delta $\Delta^9$ Desaturation and Lipogenic Properties of <i>Trans</i> 18:1 Isomers in Mouse Adipocytes. <i>Lipids</i> , 2015, 50, 1253-1258.	0.7	5
93	Effect of grape ( <i>Vitis vinifera</i> L. cv. Pinotage) pomace supplementation on nutrient utilization in finisher lambs. <i>Small Ruminant Research</i> , 2019, 179, 48-55.	0.6	5
94	Envisioning more effective delivery of custom feeding programs using participatory approaches: Lessons from Eastern Cape Province, South Africa. <i>Outlook on Agriculture</i> , 2019, 48, 157-166.	1.8	5
95	Farmer challenge-derived indicators for assessing sustainability of low-input ruminant production systems in sub-Saharan Africa. <i>Environmental and Sustainability Indicators</i> , 2020, 8, 100060.	1.7	5
96	Smallholder sheep farmers' perceived impact of water scarcity in the dry ecozones of South Africa: Determinants and response strategies. <i>Climate Risk Management</i> , 2021, 34, 100369.	1.6	5
97	Drivers of low-input farmers' perceptions of sustainable ruminant farming practices in the Eastern Cape Province, South Africa. <i>Environment, Development and Sustainability</i> , 2021, 23, 8405-8432.	2.7	4
98	Emerging from Below? Understanding the Livelihood Trajectories of Smallholder Livestock Farmers in Eastern Cape Province, South Africa. <i>Land</i> , 2021, 10, 226.	1.2	4
99	Phenolic profiling and antioxidant evaluation of extracts from Southern African indigenous fruits byproducts. <i>Food Research International</i> , 2022, 157, 111388.	2.9	4
100	Meat production, feed and water efficiencies of selected South African sheep breeds. <i>Small Ruminant Research</i> , 2022, 214, 106746.	0.6	4
101	Stress reactivity and its relationship to beef quality in Nguni steers supplemented with <i>Acacia karroo</i> leaves. <i>Animal</i> , 2011, 5, 1361-1369.	1.3	3
102	Theoretical and practical considerations in the development of a methodological framework for evaluating sustainability of low-input ruminant farming systems in developing countries. <i>Environmental and Sustainability Indicators</i> , 2020, 8, 100058.	1.7	3
103	Comparison of <i>Acacia mearnsii</i> and <i>Medicago sativa</i> as substitutes for <i>Glycine max</i> in cattle finisher diets: Effects on beef production and quality. <i>Scientific African</i> , 2021, 11, e00673.	0.7	3
104	Drought's implications on agricultural skills in South Africa. <i>Outlook on Agriculture</i> , 0, , 003072702211032.	1.8	3
105	Growth Performance, Carcass Characteristics and Economic Viability of Nguni Cattle Fed Diets Containing Graded Levels of <i>Opuntia ficus-indica</i> . <i>Agriculture (Switzerland)</i> , 2022, 12, 1023.	1.4	3
106	Breaking seed coat dormancy in <i>Macrotyloma daltonii</i> . <i>Rangeland Journal</i> , 2006, 28, 179.	0.4	2
107	Subcutaneous fatty acid composition of steers finished as weanlings or yearlings with and without growth promotants. <i>Journal of Animal Science and Biotechnology</i> , 2013, 4, 41.	2.1	2
108	Intake, digestibility, rumen protein synthesis, and growth performance of Malawi Zebu steers fed diets containing rangeland-based protein sources. <i>Tropical Animal Health and Production</i> , 2019, 51, 199-204.	0.5	2

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109	Growth performance, carcass characteristics and fatty acid composition of finishing pigs fed on graded levels of <i>Vachellia tortilis</i> leaf meal. <i>Livestock Science</i> , 2020, 241, 104259.	0.6	2
110	A gross margin analysis for Nguni cattle farmers in Limpopo Province, South Africa. <i>PLoS ONE</i> , 2021, 16, e0253657.	1.1	2
111	Meat quality, skin damage and reproductive performance of ostriches exposed to extensive human presence and interactions at an early age. <i>Tropical Animal Health and Production</i> , 2020, 52, 3439-3448.	0.5	1
112	Grape ( <i>Vitis vinifera</i> ) Biowastes: Applications in Egg, Meat and Dairy Production and Products. , 2022, , 467-504.		1
113	Effects of feeding beef fat enriched with polyunsaturated fatty acid biohydrogenation products to pigs. <i>Canadian Journal of Animal Science</i> , 2016, 96, 95-99.	0.7	0
114	Professor Voster Muchenje, 1972â€“2019. <i>Meat Science</i> , 2019, 158, 107891.	2.7	0