Alan Duncan

List of Publications by Year
in descending order

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89	3,781	101384	133063
papers	citations	36 h-index	59 g-index

90	90	90	4247
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Redesigning traditional weed management practices in faba bean fields to optimize foodâ€feed production in the smallholder system. Agronomy Journal, 2022, 114, 248-258.	0.9	4
2	Productivity nutritive value and economic potential of irrigated fodder in two regions of Ghana. Agronomy Journal, 2022, 114, 148-164.	0.9	3
3	Highâ€cut harvesting of maize stover and genotype choice can provide improved feed for ruminants and stubble for conservation agriculture. Agronomy Journal, 2022, 114, 187-200.	0.9	4
4	Fodder development in subâ€Saharan Africa: An introduction. Agronomy Journal, 2022, 114, 1-7.	0.9	11
5	Gender dynamics around introduction of improved forages in Kenya and Ethiopia. Agronomy Journal, 2022, 114, 277-295.	0.9	9
6	Effects of management practices on legume productivity in smallholder farming systems in subâ€Saharan Africa. Food and Energy Security, 2022, 11, .	2.0	4
7	Measuring household legume cultivation intensity in sub-Saharan Africa. International Journal of Agricultural Sustainability, 2021, 19, 319-334.	1.3	5
8	Multilevel innovation platforms for development of smallholder livestock systems: How effective are they?. Agricultural Systems, 2021, 189, 103047.	3.2	10
9	Reducing soil erosion in smallholder farming systems in east Africa through the introduction of different crop types. Experimental Agriculture, 2020, 56, 183-195.	0.4	26
10	Rice and wheat straw fodder trading in India: Possible lessons for rice and wheat improvement. Field Crops Research, 2020, 246, 107680.	2.3	11
11	A scoping review of feed interventions and livelihoods of small-scale livestock keepers. Nature Plants, 2020, 6, 1242-1249.	4.7	21
12	Improving adoption of technologies and interventions for increasing supply of quality livestock feed in low- and middle-income countries. Global Food Security, 2020, 26, 100372.	4.0	55
13	Farmersâ€™ Perceptions of Dairy Cattle Breeds, Breeding and Feeding Strategies: A Case of Smallholder Dairy Farmers in Western Kenya. East African Agricultural and Forestry Journal, 2019, 83, 351-367.	0.4	7
14	Farmer perceptions of legumes and their functions in smallholder farming systems in east Africa. International Journal of Agricultural Sustainability, 2019, 17, 205-218.	1.3	35
15	Variations in seed and post-harvest residue yields and residues quality of common bean (Phaseolus) Tj ETQq1 1 0.784314 rgBT /Overlock	1.1	4
16	Review: Role of herbivores in sustainable agriculture in Sub-Saharan Africa. Animal, 2018, 12, s199-s209.	1.3	11
17	Characterisation of adopters and non-adopters of dairy technologies in Ethiopia and Kenya. Tropical Animal Health and Production, 2017, 49, 681-690.	0.5	14
18	Stakeholdersâ€™ perceptions of integrated rainwater management approaches in the <scp>B</scp>lue <scp>N</scp>ile <scp>B</scp>asin of the <scp>E</scp>thiopian highlands. Natural Resources Forum, 2017, 41, 244-254.	1.8	9

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19	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
20	Assessment of lifetime performance of small ruminants under different feeding systems. Animal, 2017, 11, 881-889.	1.3	4
21	Tagasaste (Chamaecytisus palmensis) leaf supplementation to enhance nutrient intake and production performance of sheep in the Ethiopian highlands. Tropical Animal Health and Production, 2017, 49, 1415-1422.	0.5	8
22	Crop residue allocation to livestock feed, soil improvement and other uses along a productivity gradient in Eastern Africa. Agriculture, Ecosystems and Environment, 2016, 228, 101-110.	2.5	49
23	Use of body linear measurements to estimate liveweight of crossbred dairy cattle in smallholder farms in Kenya. SpringerPlus, 2016, 5, 63.	1.2	46
24	Strategies for improving water use efficiency of livestock production in rain-fed systems. Animal, 2015, 9, 908-916.	1.3	13
25	Technical innovations for small-scale producers and households to process wet cassava peels into high quality animal feed ingredients and aflasafeâ„¢ substrate. Food Chain, 2015, 5, 71-90.	0.4	13
26	Identifying determinants, pressures and trade-offs of crop residue use in mixed smallholder farms in Sub-Saharan Africa and South Asia. Agricultural Systems, 2015, 134, 107-118.	3.2	71
27	Understanding socio-economic and policy constraints to dairy development in Ethiopia: A coupled functional-structural innovation systems analysis. Agricultural Systems, 2015, 141, 69-78.	3.2	44
28	An analysis of power dynamics within innovation platforms for natural resource management. Innovation and Development, 2014, 4, 259-275.	1.4	77
29	PARTICIPATION AND PERFORMANCE: DECENTRALISED PLANNING AND IMPLEMENTATION IN ETHIOPIA. Public Administration and Development, 2014, 34, 83-95.	0.9	22
30	Trends in daily observed temperature and precipitation extremes over three Ethiopian ecoâ€environments. International Journal of Climatology, 2014, 34, 1990-1999.	1.5	88
31	Inter-connection between land use/land cover change and herdersâ€™/farmersâ€™ livestock feed resource management strategies: a case study from three Ethiopian eco-environments. Agriculture, Ecosystems and Environment, 2014, 188, 150-162.	2.5	48
32	Modeling the response of tropical highland herbaceous grassland species to climate change: The case of the Arsi Mountains of Ethiopia. Biological Conservation, 2013, 168, 169-175.	1.9	6
33	Transformation of smallholder beef cattle production in Vietnam. International Journal of Agricultural Sustainability, 2013, 11, 363-381.	1.3	47
34	Biomass in crop-livestock systems in the context of the livestock revolution. SÃ©cheresse, 2013, 24, 330-339.	0.1	12
35	Dairy intensification in developing countries: effects of market quality on farm-level feeding and breeding practices. Animal, 2013, 7, 2054-2062.	1.3	53
36	Enhancing innovation in livestock value chains through networks: Lessons from fodder innovation case studies in developing countries. Science and Public Policy, 2012, 39, 333-346.	1.2	76

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37	Conservation Agriculture in mixed cropâ€“livestock systems: Scoping crop residue trade-offs in Sub-Saharan Africa and South Asia. Field Crops Research, 2012, 132, 175-184.	2.3	231
38	Sheep use preingestive cues as indicators of postingestive consequences to improve food learning12. Journal of Animal Science, 2010, 88, 1535-1544.	0.2	24
39	Effect of inulin on the human gut microbiota: stimulation ofBifidobacterium adolescentisandFaecalibacterium prausnitzii. British Journal of Nutrition, 2009, 101, 541-550.	1.2	675
40	Diet learning through post-ingestive consequences in sheep: the case of starch and casein variously combined in the same foods. Animal, 2009, 3, 135-142.	1.3	3
41	Influence of blanching and freezing broccoli (Brassica oleracea var. italica) prior to storage and cooking on glucosinolate concentrations and myrosinase activity. European Food Research and Technology, 2008, 227, 37-44.	1.6	37
42	Nutritional Ecology of Grazing and Browsing Ruminants. Ecological Studies, 2008, , 89-116.	0.4	32
43	Livestock feed resources, production and management in the agro-pastoral system of the Hindu Kush â€“ Karakoram â€“ Himalayan region of Pakistan: The effect of accessibility. Agricultural Systems, 2008, 96, 26-36.	3.2	10
44	Influence of cooking duration of cabbage and presence of colonic microbiota on the excretion ofN-acetylcysteine conjugates of allyl isothiocyanate and bioactivity of phase 2 enzymes in F344 rats. British Journal of Nutrition, 2008, 99, 773-781.	1.2	20
45	Effect of meal composition and cooking duration on the fate of sulforaphane following consumption of broccoli by healthy human subjects. British Journal of Nutrition, 2007, 97, 644-652.	1.2	49
46	Influence of cabbage processing methods and prebiotic manipulationof colonic microflora on glucosinolate breakdown in man. British Journal of Nutrition, 2007, 98, 364-372.	1.2	55
47	Effect of cooking brassica vegetables on the subsequent hydrolysis and metabolic fate of glucosinolates. Proceedings of the Nutrition Society, 2007, 66, 69-81.	0.4	142
48	How does pattern of feeding and rate of nutrient delivery influence conditioned food preferences?. Oecologia, 2007, 153, 617-624.	0.9	13
49	Changes in Glucosinolate Concentrations, Myrosinase Activity, and Production of Metabolites of Glucosinolates in Cabbage (Brassica oleraceaVar.capitata) Cooked for Different Durations. Journal of Agricultural and Food Chemistry, 2006, 54, 7628-7634.	2.4	129
50	Transhumance livestock production in the Northern Areas of Pakistan: Nutritional inputs and productive outputs. Agriculture, Ecosystems and Environment, 2006, 117, 195-204.	2.5	6
51	Pharmacological Perspectives on the Detoxification of Plant Secondary Metabolites: Implications for Ingestive Behavior of Herbivores. Journal of Chemical Ecology, 2006, 32, 1213-1228.	0.9	73
52	How do herbivores trade-off the positive and negative consequences of diet selection decisions?. Animal Behaviour, 2006, 71, 93-99.	0.8	17
53	A Theory of Associating Food Types with Their Postingestive Consequences. American Naturalist, 2006, 167, 705-716.	1.0	48
54	Herbivore diet selection in response to simulated variation in nutrient rewards and plant secondary compounds. Animal Behaviour, 2005, 69, 541-550.	0.8	38

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55	Browse Selection in Response to Simulated Seasonal Changes in Diet Quality through Postingestive Effects. Journal of Chemical Ecology, 2005, 31, 729-744.	0.9	7
56	Hydrolysis of Glucosinolates to Isothiocyanates after Ingestion of Raw or Microwaved Cabbage by Human Volunteers. Cancer Epidemiology Biomarkers and Prevention, 2004, 13, 125-131.	1.1	127
57	Influence of plant and bacterial myrosinase activity on the metabolic fate of glucosinolates in gnotobiotic rats. British Journal of Nutrition, 2003, 90, 395-404.	1.2	91
58	Can goats learn about foods through conditioned food aversions and preferences when multiple food options are simultaneously available?1. Journal of Animal Science, 2002, 80, 2091-2098.	0.2	58
59	Can goats learn about foods through conditioned food aversions and preferences when multiple food options are simultaneously available?. Journal of Animal Science, 2002, 80, 2091.	0.2	70
60	Clonal variation in monoterpene concentrations in Sitka spruce (Picea sitchensis) saplings and its effect on their susceptibility to browsing damage by red deer (Cervus elaphus). Forest Ecology and Management, 2001, 148, 259-269.	1.4	24
61	Choice of foraging patches by hill sheep given different opportunities to seek shelter and food. Animal Science, 2001, 73, 563-570.	1.3	10
62	The effect of rumen adaptation to oxalic acid on selection of oxalicâ€“acidâ€“rich plants by goats. British Journal of Nutrition, 2000, 83, 59-65.	1.2	132
63	The effect of rumen adaptation to oxalic acid on selection of oxalic-acid-rich plants by goats. British Journal of Nutrition, 2000, 83, 59-65.	1.2	11
64	The use of naturally occurring and artificially applied n-alkanes as markers for estimation of short-term diet composition and intake in sheep. Journal of Agricultural Science, 1999, 132, 233-246.	0.6	41
65	Habitat selection according to the ability of animals to eat, digest and detoxify foods. Proceedings of the Nutrition Society, 1999, 58, 799-805.	0.4	33
66	Title is missing!. Journal of Chemical Ecology, 1998, 24, 383-397.	0.9	20
67	The effect of elevated CO 2 concentration and nutrient supply on carbon-based plant secondary metabolites in Pinus sylvestris L.. Oecologia, 1998, 115, 344-350.	0.9	68
68	Effects of feeding ensiled kale (Brassica oleracea) on the performance of finishing lambs. Grass and Forage Science, 1998, 53, 346-352.	1.2	8
69	The effect of previous browsing damage on the morphology and chemical composition of Sitka spruce (Picea sitchensis) saplings and on their subsequent susceptibility to browsing by red deer (Cervus) Tj ETQq1 1 0.784314 rgBT /Overlo	1.2	
70	Conditioned flavour aversions in sheep: the relationship between the dose rate of a secondary plant compound and the acquisition and persistence of aversions. British Journal of Nutrition, 1998, 79, 55-62.	1.2	36
71	The acquisition and persistence of aversions towards flavoured foods associated with the administration of oxalic acid to sheep. Proceedings of the British Society of Animal Science, 1998, 1998, 94-94.	0.0	0
72	The acquisition and persistence of aversions towards flavoured foods associated with the administration of oxalic acid to sheep. Proceedings of the British Society of Animal Science, 1998, 1998, 94-94.	0.0	0

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73	Rates of oxalic acid degradation in the rumen of sheep and goats in response to different levels of oxalic acid administration. Animal Science, 1997, 65, 451-455.	1.3	40
74	Mild Conditioned Food Aversions Developed by Sheep Towards Flavors Associated with Plant Secondary Compounds. Journal of Chemical Ecology, 1997, 23, 727-746.	0.9	42
75	Feeding behaviour of Red Deer (Cervus elaphus) offered Sitka Spruce saplings (Picea sitchensis) grown under different light and nutrient regimes. Functional Ecology, 1997, 11, 348-357.	1.7	64
76	Urinary Mercapturic Acids as Markers for the Determination of Isothiocyanate Release from Glucosinolates in Rats Fed a Cauliflower Diet. Journal of the Science of Food and Agriculture, 1997, 73, 214-220.	1.7	18
77	Feeding behaviour of red deer (Cervus elaphus) on sitka spruce (Picea sitchensis): the role of carbon-nutrient balance. Forest Ecology and Management, 1996, 88, 121-129.	1.4	48
78	Effect of blood glutathione status on the susceptibility of sheep to haemolytic anaemia induced by the brassica anti-metabolite, dimethyl disulphide. Animal Science, 1995, 60, 93-98.	1.3	3
79	Electron spin resonance assessment of susceptibility of roe deer (Capreolus capreolus) and red deer (Cervus elaphus) to oilseed rape (Brassica napus) poisoning. Comparative Biochemistry and Physiology A, Comparative Physiology, 1994, 109, 335-338.	0.7	0
80	The effect of monoterpene concentrations in Sitka spruce (Picea sitchensis) on the browsing behaviour of red deer (Cervus elaphus). Canadian Journal of Zoology, 1994, 72, 1715-1720.	0.4	65
81	Fine-scale discrimination of forage quality by sheep offered a soyabean meal or barley supplement while grazing a nitrogen-fertilized heather (Calluna vulgaris) mosaic. Journal of Agricultural Science, 1994, 123, 363-370.	0.6	22
82	Chemical composition of Calluna vulgaris (Ericaceae): Do responses to fertilizer vary with phenological stage?. Biochemical Systematics and Ecology, 1993, 21, 315-321.	0.6	38
83	Effects of oral administration of brassica secondary metabolites, allyl cyanide, allyl isothiocyanate and dimethyl disulphide, on the voluntary food intake and metabolism of sheep. British Journal of Nutrition, 1993, 70, 631-645.	1.2	31
84	Effect of long-term intra-ruminal infusion of the glucosinolate metabolite allyl cyanide on the voluntary food intake and metabolism of lambs. Journal of the Science of Food and Agriculture, 1992, 58, 9-14.	1.7	15
85	Rumen microbial degradation of allyl cyanide as a possible explanation for the tolerance of sheep to brassica-derived glucosinolates. Journal of the Science of Food and Agriculture, 1992, 58, 15-19.	1.7	36
86	Glucosinolates. , 1991, , 126-147.		22
87	Potential of Urochloa grass hybrids as fodder in the Ethiopian highlands. Agronomy Journal, 0, , .	0.9	1
88	Estimating farmersâ€™ internal value of crop residues in smallholder crop-livestock systems: A South Asia case study. Outlook on Agriculture, 0, , 003072702110395.	1.8	1
89	Nearâ€infrared reflectance spectroscopy for forage nutritive value analysis in subâ€Saharan African countries. Agronomy Journal, 0, , .	0.9	6