

# Alan Duncan

## List of Publications by Year in descending order

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89  
papers

3,781  
citations

101543  
36  
h-index

133252  
59  
g-index

90  
all docs

90  
docs citations

90  
times ranked

4247  
citing authors

#	ARTICLE	IF	CITATIONS
1	Redesigning traditional weed management practices in faba bean fields to optimize food&feed production in the smallholder system. Agronomy Journal, 2022, 114, 248-258.	1.8	4
2	Productivity nutritive value and economic potential of irrigated fodder in two regions of Ghana. Agronomy Journal, 2022, 114, 148-164.	1.8	3
3	High&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.	1.8	4
4	Fodder development in sub&Saharan Africa: An introduction. Agronomy Journal, 2022, 114, 1-7.	1.8	11
5	Gender dynamics around introduction of improved forages in Kenya and Ethiopia. Agronomy Journal, 2022, 114, 277-295.	1.8	9
6	Effects of management practices on legume productivity in smallholder farming systems in sub&Saharan Africa. Food and Energy Security, 2022, 11, .	4.3	4
7	Measuring household legume cultivation intensity in sub-Saharan Africa. International Journal of Agricultural Sustainability, 2021, 19, 319-334.	3.5	5
8	Multilevel innovation platforms for development of smallholder livestock systems: How effective are they?. Agricultural Systems, 2021, 189, 103047.	6.1	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.	0.9	26
10	Rice and wheat straw fodder trading in India: Possible lessons for rice and wheat improvement. Field Crops Research, 2020, 246, 107680.	5.1	11
11	A scoping review of feed interventions and livelihoods of small-scale livestock keepers. Nature Plants, 2020, 6, 1242-1249.	9.3	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.	8.1	55
13	Farmers&™ 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.	3.5	35
15	Variations in seed and post-harvest residue yields and residues quality of common bean (Phaseolus) Tj ETQq1 1 0.784314 rgBT /Overl	2.2	4
16	Review: Role of herbivores in sustainable agriculture in Sub-Saharan Africa. Animal, 2018, 12, s199-s209.	3.3	11
17	Characterisation of adopters and non-adopters of dairy technologies in Ethiopia and Kenya. Tropical Animal Health and Production, 2017, 49, 681-690.	1.4	14
18	Stakeholders&™ perceptions of integrated rainwater management approaches in the <sc>B</sc>lue <sc>N</sc>ile <sc>B</sc>asin of the <sc>E</sc>thiopian highlands. Natural Resources Forum, 2017, 41, 244-254.	3.6	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. <i>Agricultural Systems</i> , 2017, 155, 43-51.	6.1	42
20	Assessment of lifetime performance of small ruminants under different feeding systems. <i>Animal</i> , 2017, 11, 881-889.	3.3	4
21	Tagasaste ( <i>Chamaecytisus palmensis</i> ) leaf supplementation to enhance nutrient intake and production performance of sheep in the Ethiopian highlands. <i>Tropical Animal Health and Production</i> , 2017, 49, 1415-1422.	1.4	8
22	Crop residue allocation to livestock feed, soil improvement and other uses along a productivity gradient in Eastern Africa. <i>Agriculture, Ecosystems and Environment</i> , 2016, 228, 101-110.	5.3	49
23	Use of body linear measurements to estimate liveweight of crossbred dairy cattle in smallholder farms in Kenya. <i>SpringerPlus</i> , 2016, 5, 63.	1.2	46
24	Strategies for improving water use efficiency of livestock production in rain-fed systems. <i>Animal</i> , 2015, 9, 908-916.	3.3	13
25	Technical innovations for small-scale producers and households to process wet cassava peels into high quality animal feed ingredients and aflasafeâ„¢ substrate. <i>Food Chain</i> , 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. <i>Agricultural Systems</i> , 2015, 134, 107-118.	6.1	71
27	Understanding socio-economic and policy constraints to dairy development in Ethiopia: A coupled functional-structural innovation systems analysis. <i>Agricultural Systems</i> , 2015, 141, 69-78.	6.1	44
28	An analysis of power dynamics within innovation platforms for natural resource management. <i>Innovation and Development</i> , 2014, 4, 259-275.	2.2	77
29	PARTICIPATION AND PERFORMANCE: DECENTRALISED PLANNING AND IMPLEMENTATION IN ETHIOPIA. <i>Public Administration and Development</i> , 2014, 34, 83-95.	1.8	22
30	Trends in daily observed temperature and precipitation extremes over three Ethiopian eco-environments. <i>International Journal of Climatology</i> , 2014, 34, 1990-1999.	3.5	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. <i>Agriculture, Ecosystems and Environment</i> , 2014, 188, 150-162.	5.3	48
32	Modeling the response of tropical highland herbaceous grassland species to climate change: The case of the Arsi Mountains of Ethiopia. <i>Biological Conservation</i> , 2013, 168, 169-175.	4.1	6
33	Transformation of smallholder beef cattle production in Vietnam. <i>International Journal of Agricultural Sustainability</i> , 2013, 11, 363-381.	3.5	47
34	Biomass in crop-livestock systems in the context of the livestock revolution. <i>SÃ©cheresse</i> , 2013, 24, 330-339.	0.1	12
35	Dairy intensification in developing countries: effects of market quality on farm-level feeding and breeding practices. <i>Animal</i> , 2013, 7, 2054-2062.	3.3	53
36	Enhancing innovation in livestock value chains through networks: Lessons from fodder innovation case studies in developing countries. <i>Science and Public Policy</i> , 2012, 39, 333-346.	2.4	76

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37	Conservation Agriculture in mixed crop–livestock systems: Scoping crop residue trade-offs in Sub-Saharan Africa and South Asia. <i>Field Crops Research</i> , 2012, 132, 175-184.	5.1	231
38	Sheep use preingestive cues as indicators of postingestive consequences to improve food learning <sup>12</sup> . <i>Journal of Animal Science</i> , 2010, 88, 1535-1544.	0.5	24
39	Effect of inulin on the human gut microbiota: stimulation of <i>Bifidobacterium adolescentis</i> and <i>Faecalibacterium prausnitzii</i> . <i>British Journal of Nutrition</i> , 2009, 101, 541-550.	2.3	675
40	Diet learning through post-ingestive consequences in sheep: the case of starch and casein variously combined in the same foods. <i>Animal</i> , 2009, 3, 135-142.	3.3	3
41	Influence of blanching and freezing broccoli ( <i>Brassica oleracea</i> var. <i>italica</i> ) prior to storage and cooking on glucosinolate concentrations and myrosinase activity. <i>European Food Research and Technology</i> , 2008, 227, 37-44.	3.3	37
42	Nutritional Ecology of Grazing and Browsing Ruminants. <i>Ecological Studies</i> , 2008, , 89-116.	1.2	32
43	Livestock feed resources, production and management in the agro-pastoral system of the Hindu Kush – Karakoram – Himalayan region of Pakistan: The effect of accessibility. <i>Agricultural Systems</i> , 2008, 96, 26-36.	6.1	10
44	Influence of cooking duration of cabbage and presence of colonic microbiota on the excretion of N-acetylcysteine conjugates of allyl isothiocyanate and bioactivity of phase 2 enzymes in F344 rats. <i>British Journal of Nutrition</i> , 2008, 99, 773-781.	2.3	20
45	Effect of meal composition and cooking duration on the fate of sulforaphane following consumption of broccoli by healthy human subjects. <i>British Journal of Nutrition</i> , 2007, 97, 644-652.	2.3	49
46	Influence of cabbage processing methods and prebiotic manipulation of colonic microflora on glucosinolate breakdown in man. <i>British Journal of Nutrition</i> , 2007, 98, 364-372.	2.3	55
47	Effect of cooking brassica vegetables on the subsequent hydrolysis and metabolic fate of glucosinolates. <i>Proceedings of the Nutrition Society</i> , 2007, 66, 69-81.	1.0	142
48	How does pattern of feeding and rate of nutrient delivery influence conditioned food preferences?. <i>Oecologia</i> , 2007, 153, 617-624.	2.0	13
49	Changes in Glucosinolate Concentrations, Myrosinase Activity, and Production of Metabolites of Glucosinolates in Cabbage ( <i>Brassica oleracea</i> Var. <i>capitata</i> ) Cooked for Different Durations. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 7628-7634.	5.2	129
50	Transhumance livestock production in the Northern Areas of Pakistan: Nutritional inputs and productive outputs. <i>Agriculture, Ecosystems and Environment</i> , 2006, 117, 195-204.	5.3	6
51	Pharmacological Perspectives on the Detoxification of Plant Secondary Metabolites: Implications for Ingestive Behavior of Herbivores. <i>Journal of Chemical Ecology</i> , 2006, 32, 1213-1228.	1.8	73
52	How do herbivores trade-off the positive and negative consequences of diet selection decisions?. <i>Animal Behaviour</i> , 2006, 71, 93-99.	1.9	17
53	A Theory of Associating Food Types with Their Postingestive Consequences. <i>American Naturalist</i> , 2006, 167, 705-716.	2.1	48
54	Herbivore diet selection in response to simulated variation in nutrient rewards and plant secondary compounds. <i>Animal Behaviour</i> , 2005, 69, 541-550.	1.9	38

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55	Browse Selection in Response to Simulated Seasonal Changes in Diet Quality through Postingestive Effects. <i>Journal of Chemical Ecology</i> , 2005, 31, 729-744.	1.8	7
56	Hydrolysis of Glucosinolates to Isothiocyanates after Ingestion of Raw or Microwaved Cabbage by Human Volunteers. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2004, 13, 125-131.	2.5	127
57	Influence of plant and bacterial myrosinase activity on the metabolic fate of glucosinolates in gnotobiotic rats. <i>British Journal of Nutrition</i> , 2003, 90, 395-404.	2.3	91
58	Can goats learn about foods through conditioned food aversions and preferences when multiple food options are simultaneously available?1. <i>Journal of Animal Science</i> , 2002, 80, 2091-2098.	0.5	58
59	Can goats learn about foods through conditioned food aversions and preferences when multiple food options are simultaneously available?. <i>Journal of Animal Science</i> , 2002, 80, 2091.	0.5	70
60	Clonal variation in monoterpene concentrations in Sitka spruce ( <i>Picea sitchensis</i> ) saplings and its effect on their susceptibility to browsing damage by red deer ( <i>Cervus elaphus</i> ). <i>Forest Ecology and Management</i> , 2001, 148, 259-269.	3.2	24
61	Choice of foraging patches by hill sheep given different opportunities to seek shelter and food. <i>Animal Science</i> , 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. <i>British Journal of Nutrition</i> , 2000, 83, 59-65.	2.3	132
63	The effect of rumen adaptation to oxalic acid on selection of oxalic-acid-rich plants by goats. <i>British Journal of Nutrition</i> , 2000, 83, 59-65.	2.3	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. <i>Journal of Agricultural Science</i> , 1999, 132, 233-246.	1.3	41
65	Habitat selection according to the ability of animals to eat, digest and detoxify foods. <i>Proceedings of the Nutrition Society</i> , 1999, 58, 799-805.	1.0	33
66	Title is missing!. <i>Journal of Chemical Ecology</i> , 1998, 24, 383-397.	1.8	20
67	The effect of elevated CO 2 concentration and nutrient supply on carbon-based plant secondary metabolites in <i>Pinus sylvestris</i> L.. <i>Oecologia</i> , 1998, 115, 344-350.	2.0	68
68	Effects of feeding ensiled kale ( <i>Brassica oleracea</i> ) on the performance of finishing lambs. <i>Grass and Forage Science</i> , 1998, 53, 346-352.	2.9	8
69	The effect of previous browsing damage on the morphology and chemical composition of Sitka spruce ( <i>Picea sitchensis</i> ) saplings and on their subsequent susceptibility to browsing by red deer ( <i>Cervus</i> ) Tj ETQq1 1 0.784314 rgBTp/Overlook	1.3	14
70	Conditioned flavour aversions in sheep: the relationship between the dose rate of a secondary plant compound and the acquisition and persistence of aversions. <i>British Journal of Nutrition</i> , 1998, 79, 55-62.	2.3	36
71	The acquisition and persistence of aversions towards flavoured foods associated with the administration of oxalic acid to sheep. <i>Proceedings of the British Society of Animal Science</i> , 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. <i>Proceedings of the British Society of Animal Science</i> , 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. <i>Animal Science</i> , 1997, 65, 451-455.	1.3	40
74	Mild Conditioned Food Aversions Developed by Sheep Towards Flavors Associated with Plant Secondary Compounds. <i>Journal of Chemical Ecology</i> , 1997, 23, 727-746.	1.8	42
75	Feeding behaviour of Red Deer ( <i>Cervus elaphus</i> ) offered Sitka Spruce saplings ( <i>Picea sitchensis</i> ) grown under different light and nutrient regimes. <i>Functional Ecology</i> , 1997, 11, 348-357.	3.6	64
76	Urinary Mercapturic Acids as Markers for the Determination of Isothiocyanate Release from Glucosinolates in Rats Fed a Cauliflower Diet. <i>Journal of the Science of Food and Agriculture</i> , 1997, 73, 214-220.	3.5	18
77	Feeding behaviour of red deer ( <i>Cervus elaphus</i> ) on sitka spruce ( <i>Picea sitchensis</i> ): the role of carbon-nutrient balance. <i>Forest Ecology and Management</i> , 1996, 88, 121-129.	3.2	48
78	Effect of blood glutathione status on the susceptibility of sheep to haemolytic anaemia induced by the brassica anti-metabolite, dimethyl disulphide. <i>Animal Science</i> , 1995, 60, 93-98.	1.3	3
79	Electron spin resonance assessment of susceptibility of roe deer ( <i>Capreolus capreolus</i> ) and red deer ( <i>Cervus elaphus</i> ) to oilseed rape ( <i>Brassica napus</i> ) poisoning. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1994, 109, 335-338.	0.6	0
80	The effect of monoterpene concentrations in Sitka spruce ( <i>Picea sitchensis</i> ) on the browsing behaviour of red deer ( <i>Cervus elaphus</i> ). <i>Canadian Journal of Zoology</i> , 1994, 72, 1715-1720.	1.0	65
81	Fine-scale discrimination of forage quality by sheep offered a soyabean meal or barley supplement while grazing a nitrogen-fertilized heather ( <i>Calluna vulgaris</i> ) mosaic. <i>Journal of Agricultural Science</i> , 1994, 123, 363-370.	1.3	22
82	Chemical composition of <i>Calluna vulgaris</i> (Ericaceae): Do responses to fertilizer vary with phenological stage?. <i>Biochemical Systematics and Ecology</i> , 1993, 21, 315-321.	1.3	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. <i>British Journal of Nutrition</i> , 1993, 70, 631-645.	2.3	31
84	Effect of long-term intra-ruminal infusion of the glucosinolate metabolite allyl cyanide on the voluntary food intake and metabolism of lambs. <i>Journal of the Science of Food and Agriculture</i> , 1992, 58, 9-14.	3.5	15
85	Rumen microbial degradation of allyl cyanide as a possible explanation for the tolerance of sheep to brassica-derived glucosinolates. <i>Journal of the Science of Food and Agriculture</i> , 1992, 58, 15-19.	3.5	36
86	Glucosinolates. , 1991, , 126-147.		22
87	Potential of <i>Urochloa</i> grass hybrids as fodder in the Ethiopian highlands. <i>Agronomy Journal</i> , 0, , .	1.8	1
88	Estimating farmers' internal value of crop residues in smallholder crop-livestock systems: A South Asia case study. <i>Outlook on Agriculture</i> , 0, , 003072702110395.	3.4	1
89	Near-infrared reflectance spectroscopy for forage nutritive value analysis in sub-Saharan African countries. <i>Agronomy Journal</i> , 0, , .	1.8	6