Irene Mueller-harvey

List of Publications by Citations

66	3,657	33	60
papers	citations	h-index	g-index
67	4,072	4.3	5.57
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
66	Unravelling the conundrum of tannins in animal nutrition and health. *Journal of the Science of Food and Agriculture*, **2006**, 86, 2010-2037	4.3	561
65	Linkage of p-coumaroyl and feruloyl groups to cell-wall polysaccharides of barley straw. *Carbohydrate Research*, **1986**, 148, 71-85	2.9	309
64	Analysis of hydrolysable tannins. *Animal Feed Science and Technology*, **2001**, 91, 3-20	3	245
63	Interactions of tea tannins and condensed tannins with proteins. *Journal of Pharmaceutical and Biomedical Analysis*, **2010**, 51, 490-5	3.5	189
62	Probing protein-tannin interactions by isothermal titration microcalorimetry. *Journal of Agricultural and Food Chemistry*, **2003**, 51, 5189-95	5.7	149
61	Hydrolyzable tannin structures influence relative globular and random coil protein binding strengths. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 4554-61	5.7	109
60	Acetone enhances the direct analysis of procyanidin- and prodelphinidin-based condensed tannins in lotus species by the butanol-HCl-iron assay. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 2669-78	5.7	97
59	Benefits of Condensed Tannins in Forage Legumes Fed to Ruminants: Importance of Structure, Concentration, and Diet Composition. *Crop Science*, **2019**, 59, 861-885	2.4	93
58	Synergistic inhibition of Haemonchus contortus exsheathment by flavonoid monomers and condensed tannins. *International Journal for Parasitology: Drugs and Drug Resistance*, **2015**, 5, 127-34	4	86
57	In situ analysis and structural elucidation of sainfoin (Onobrychis viciifolia) tannins for high-throughput germplasm screening. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 495-503	5.7	83
56	Rapid qualitative and quantitative analyses of proanthocyanidin oligomers and polymers by UPLC-MS/MS. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 3390-9	5.7	82
55	Direct anthelmintic effects of condensed tannins from diverse plant sources against Ascaris suum. *PLoS ONE*, **2014**, 9, e97053	3.7	82
54	Characterisation of phenolic compounds, including flavonoids and tannins, of ten ethiopian browse species by high performance liquid chromatography. *Journal of the Science of Food and Agriculture*, **1987**, 39, 1-14	4.3	75
53	Effects of condensed tannins in fresh sainfoin (Onobrychis viciifolia) on in vivo and in situ digestion in sheep. *Animal Feed Science and Technology*, **2010**, 160, 23-38	3	74
52	Characterisation of tannins and in vitro protein digestibility of several Lotus corniculatus varieties. *Animal Feed Science and Technology*, **2000**, 87, 41-56	3	69
51	Polyphenols, condensed tannins, and other natural products in Onobrychis viciifolia (Sainfoin). *Journal of Agricultural and Food Chemistry*, **2000**, 48, 3440-7	5.7	66
50	Evaluating effects of tannins on extent and rate of in vitro gas and CH4 production using an automated pressure evaluation system (APES). *Animal Feed Science and Technology*, **2011**, 166-167, 377-390	3	62

49	Dietary quebracho tannins are not absorbed, but increase the antioxidant capacity of liver and plasma in sheep. *British Journal of Nutrition*, **2013**, 110, 632-9	3.6	61
48	Sainfoin (Onobrychis viciifolia): a beneficial forage legume. *Plant Genetic Resources: Characterisation and Utilisation*, **2011**, 9, 70-85	1	59
47	Anthelmintic Activities against Haemonchus contortus or Trichostrongylus colubriformis from Small Ruminants Are Influenced by Structural Features of Condensed Tannins. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 6346-54	5.7	58
46	Binding of pentagalloyl glucose to two globular proteins occurs via multiple surface sites. *Biomacromolecules*, **2011**, 12, 710-5	6.9	52
45	Binding of an Oligomeric Ellagitannin Series to Bovine Serum Albumin (BSA): Analysis by Isothermal Titration Calorimetry (ITC). *Journal of Agricultural and Food Chemistry*, **2015**, 63, 10647-54	5.7	51
44	Large Variability of Proanthocyanidin Content and Composition in Sainfoin (Onobrychis viciifolia). *Journal of Agricultural and Food Chemistry*, **2015**, 63, 10234-42	5.7	50
43	Condensed tannins act against cattle nematodes. *Veterinary Parasitology*, **2011**, 182, 213-20	2.8	48
42	Light-induced isomerization and dimerization of cinnamic acid derivatives in cell walls. *Phytochemistry*, **1993**, 33, 791-796	4	48
41	Assessment of the anthelmintic activity of medicinal plant extracts and purified condensed tannins against free-living and parasitic stages of Oesophagostomum dentatum. *Parasites and Vectors*, **2014**, 7, 518	4	44
40	Anthelmintic activity of trans-cinnamaldehyde and A- and B-type proanthocyanidins derived from cinnamon (Cinnamomum verum). *Scientific Reports*, **2015**, 5, 14791	4.9	43
39	Identification of Structural Features of Condensed Tannins That Affect Protein Aggregation. *PLoS ONE*, **2017**, 12, e0170768	3.7	41
38	Size and molecular flexibility affect the binding of ellagitannins to bovine serum albumin. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 9186-94	5.7	39
37	Investigations into the biochemical basis for nematode resistance in roots of three musa cultivars in response to Radopholus similis infection. *Journal of Agricultural and Food Chemistry*, **2000**, 48, 5297-301	5.7	39
36	Proanthocyanidin diversity in the EU 'HealthyHay' sainfoin (Onobrychis viciifolia) germplasm collection. *Phytochemistry*, **2012**, 77, 197-208	4	38
35	Protein Precipitation Behavior of Condensed Tannins from Lotus pedunculatus and Trifolium repens with Different Mean Degrees of Polymerization. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 1160-1168	5.7	36
34	Relationship between condensed tannin structures and their ability to precipitate feed proteins in the rumen. *Journal of the Science of Food and Agriculture*, **2014**, 94, 963-8	4.3	36
33	Octanol-water partition coefficients for predicting the effects of tannins in ruminant nutrition. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 5436-44	5.7	31
32	Impact of chemical structure of flavanol monomers and condensed tannins on in vitro anthelmintic activity against bovine nematodes. *Parasitology*, **2016**, 143, 444-54	2.7	29

31	□H-□□C HSQC NMR spectroscopy for estimating procyanidin/prodelphinidin and cis/trans-flavan-3-ol ratios of condensed tannin samples: correlation with thiolysis. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 1967-73	5.7	27
30	Deciphering the complexity of sainfoin (Onobrychis viciifolia) proanthocyanidins by MALDI-TOF mass spectrometry with a judicious choice of isotope patterns and matrixes. *Analytical Chemistry*, **2011**, 83, 4147-53	7.8	27
29	Condensed tannins in extracts from European medicinal plants and herbal products. *Journal of Pharmaceutical and Biomedical Analysis*, **2016**, 121, 225-231	3.5	26
28	Facile Purification of Milligram to Gram Quantities of Condensed Tannins According to Mean Degree of Polymerization and Flavan-3-ol Subunit Composition. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 8072-8082	5.7	25
27	Measurement of volatile fatty acids in pore water from marine sediments by HPLC. *Estuarine, Coastal and Shelf Science*, **1987**, 25, 567-579	2.9	24
26	Exploring variation in proanthocyanidin composition and content of sainfoin (Onobrychis viciifolia). *Journal of the Science of Food and Agriculture*, **2013**, 93, 2102-9	4.3	23
25	Condensed Tannins in the Gastrointestinal Tract of Cattle after Sainfoin (Onobrychis viciifolia) Intake and Their Possible Relationship with Anthelmintic Effects. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 1420-1427	5.7	21
24	The effects of tannins-containing ground pine bark diet upon nutrient digestion, nitrogen balance, and mineral retention in meat goats. *Journal of Animal Science and Biotechnology*, **2015**, 6, 25	6	21
23	Co-operative suppression of inflammatory responses in human dendritic cells by plant proanthocyanidins and products from the parasitic nematode Trichuris suis. *Immunology*, **2017**, 150, 312-328	7.8	19
22	Synergistic effects of mixing cocksfoot and sainfoin on in vitro rumen fermentation. Role of condensed tannins. *Animal Feed Science and Technology*, **2012**, 178, 48-56	3	19
21	Cocoa procyanidins modulate transcriptional pathways linked to inflammation and metabolism in human dendritic cells. *Food and Function*, **2018**, 9, 2883-2890	6.1	16
20	Condensed Tannin Changes along the Digestive Tract in Lambs Fed with Sainfoin Pellets or Hazelnut Skins. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 2136-2142	5.7	16
19	Structure-Activity Relationship of Condensed Tannins and Synergism with trans-Cinnamaldehyde against Caenorhabditis elegans. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 8795-8805	5.7	15
18	Efficacy of condensed tannins against larval Hymenolepis diminuta (Cestoda) in vitro and in the intermediate host Tenebrio molitor (Coleoptera) in vivo. *Veterinary Parasitology*, **2015**, 207, 49-55	2.8	14
17	Characterization of Condensed Tannins from Purple Prairie Clover (Dalea purpurea Vent.) Conserved as either Freeze-Dried Forage, Sun-Cured Hay or Silage. *Molecules*, **2018**, 23,	4.8	14
16	Simple solution for a complex problem: proanthocyanidins, galloyl glucoses and ellagitannins fit on a single calibration curve in high performance-gel permeation chromatography. *Journal of Chromatography A*, **2011**, 1218, 7804-12	4.5	13
15	Evaluation of the Novel Soxflo Technique for Rapid Extraction of Crude Fat in Foods and Animal Feeds. *Journal of AOAC INTERNATIONAL*, **1999**, 82, 1369-1374	1.7	13
14	Ellagitannins with Glucopyranose Cores Have Higher Affinities to Proteins than Acyclic Ellagitannins by Isothermal Titration Calorimetry. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 12730-12740	5.7	12

List of Publications

13	Two-photon excitation with pico-second fluorescence lifetime imaging to detect nuclear association of flavanols. *Analytica Chimica Acta*, **2012**, 719, 68-75	6.6	11
12	Sodium Hydroxide Enhances Extractability and Analysis of Proanthocyanidins in Ensiled Sainfoin (Onobrychis viciifolia). *Journal of Agricultural and Food Chemistry*, **2015**, 63, 9471-9	5.7	10
11	Modification of the head-group selectivity of porcine pancreatic phospholipase A2 by protein engineering. *Biochemistry*, **1993**, 32, 12203-8	3.2	10
10	The effect of copper(II), iron(II) sulphate, and vitamin C combinations on the weak antimicrobial activity of (+)-catechin against Staphylococcus aureus and other microbes. *Metallomics*, **2012**, 4, 1280-6	4.5	9
9	Polymerization-dependent activation of porcine □□T-cells by proanthocyanidins. *Research in Veterinary Science*, **2016**, 105, 209-15	2.5	9
8	Carbon-13 Cross-Polarization Magic-Angle Spinning Nuclear Magnetic Resonance for Measuring Proanthocyanidin Content and Procyanidin to Prodelphinidin Ratio in Sainfoin (Onobrychis viciifolia) Tissues. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 4073-4081	5.7	8
7	Proanthocyanidins inhibit Ascaris suum glutathione-S-transferase activity and increase susceptibility of larvae to levamisole in vitro. *Parasitology International*, **2016**, 65, 336-9	2.1	7
6	Feeding of carob (Ceratonia siliqua) to sheep infected with gastrointestinal nematodes reduces faecal egg counts and worm fecundity. *Veterinary Parasitology*, **2020**, 284, 109200	2.8	5
5	Senna alata leaves are a good source of propelargonidins. *Natural Product Research*, **2016**, 30, 1548-51	2.3	4
4	Assessment of the anti-pathogenic effects of condensed tannin extracts using scanning electron microscopy. *Archives of Microbiology*, **2021**, 203, 1555-1563	3	2
3	Breeding for □HealthyHay□Can We Optimise Plant Polyphenols in Legumes for Ruminant Nutrition, Animal Health and Environmental Sustainability? **2014**, 299-311		0
2	Challenges in Analyzing Bioactive Proanthocyanidins **2021**, 131-175		
1	Composition and Protein Precipitation Capacity of Condensed Tannins in Purple Prairie Clover (.). *Frontiers in Plant Science*, **2021**, 12, 715282	6.2	