

# Karl Fraser

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2939077/karl-fraser-publications-by-citations.pdf>

**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100 papers	2,423 citations	29 h-index	46 g-index
111 ext. papers	2,901 ext. citations	4.1 avg, IF	5.27 L-index

#	Paper	IF	Citations
100	Metabolic profiles of <i>Lolium perenne</i> are differentially affected by nitrogen supply, carbohydrate content, and fungal endophyte infection. <i>Plant Physiology</i> , <b>2008</b> , 146, 1440-53	6.6	132
99	Pastoral and species flavour in lambs raised on pasture, lucerne or maize. <i>Journal of the Science of Food and Agriculture</i> , <b>2003</b> , 83, 93-104	4.3	113
98	Expression of the R2R3-MYB transcription factor TaMYB14 from <i>Trifolium arvense</i> activates proanthocyanidin biosynthesis in the legumes <i>Trifolium repens</i> and <i>Medicago sativa</i> . <i>Plant Physiology</i> , <b>2012</b> , 159, 1204-20	6.6	93
97	Peramine and other fungal alkaloids are exuded in the guttation fluid of endophyte-infected grasses. <i>Phytochemistry</i> , <b>2007</b> , 68, 355-60	4	85
96	Competition between foliar <i>Neotyphodium lolii</i> endophytes and mycorrhizal <i>Glomus</i> spp. fungi in <i>Lolium perenne</i> depends on resource supply and host carbohydrate content. <i>Functional Ecology</i> , <b>2011</b> , 25, 910-920	5.6	83
95	The Microbiome in Functional Gastrointestinal Disorders Is Characterized by Bacteria and Genes Involved in Carbohydrate and Bile Acid Metabolism (OR23-01-19). <i>Current Developments in Nutrition</i> , <b>2019</b> , 3,	0.4	78
94	Lipid and Metabolite Profiles in Human Plasma and Associations with the Microbiome and Functional Gastrointestinal Disorders (P20-033-19). <i>Current Developments in Nutrition</i> , <b>2019</b> , 3,	0.4	78
93	Understanding How Metabolites Link Diet, Host, and Microbiota in a Dysfunctional Gut Model Is Important to Establishing a System-wide Understanding of Gut Function (P20-035-19). <i>Current Developments in Nutrition</i> , <b>2019</b> , 3,	0.4	78
92	Connecting Infant Complementary Feeding Patterns with Microbiome Development. <i>Current Developments in Nutrition</i> , <b>2020</b> , 4, 1034-1034	0.4	78
91	Association of Habitual Dietary Fiber Intake and Fecal Microbiome Gene Abundance with Gastrointestinal Symptoms in an Irritable Bowel Syndrome Cohort. <i>Current Developments in Nutrition</i> , <b>2020</b> , 4, 1581-1581	0.4	78
90	Infant Feeding Frequency Impacts Human Milk Composition: A Metabolomic Analysis. <i>Current Developments in Nutrition</i> , <b>2020</b> , 4, 986-986	0.4	78
89	An extracellular siderophore is required to maintain the mutualistic interaction of <i>Epichloa festucae</i> with <i>Lolium perenne</i> . <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003332	7.6	73
88	High-throughput direct-infusion ion trap mass spectrometry: a new method for metabolomics. <i>Rapid Communications in Mass Spectrometry</i> , <b>2007</b> , 21, 421-8	2.2	73
87	Predicting retention time in hydrophilic interaction liquid chromatography mass spectrometry and its use for peak annotation in metabolomics. <i>Metabolomics</i> , <b>2015</b> , 11, 696-706	4.7	60
86	Functional analysis of an indole-diterpene gene cluster for lolitrem B biosynthesis in the grass endosymbiont <i>Epichloa festucae</i> . <i>FEBS Letters</i> , <b>2012</b> , 586, 2563-9	3.8	57
85	Variation in antimicrobial action of proanthocyanidins from <i>Dorycnium rectum</i> against rumen bacteria. <i>Phytochemistry</i> , <b>2004</b> , 65, 2485-97	4	51
84	Biochemical outcome of blocking the ergot alkaloid pathway of a grass endophyte. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 6429-37	5.7	49

83	Non-targeted analysis by LC-MS of major metabolite changes during the oolong tea manufacturing in New Zealand. <i>Food Chemistry</i> , <b>2014</b> , 151, 394-403	8.5	45
82	Characterization of condensed tannins from Lotus species by thiolytic degradation and electrospray mass spectrometry. <i>Animal Feed Science and Technology</i> , <b>2004</b> , 117, 151-163	3	43
81	Analysis of metabolic markers of tea origin by UHPLC and high resolution mass spectrometry. <i>Food Research International</i> , <b>2013</b> , 53, 827-835	7	40
80	A novel family of cyclic oligopeptides derived from ribosomal peptide synthesis of an in planta-induced gene, <i>gigA</i> , in <i>Epichloa</i> endophytes of grasses. <i>Fungal Genetics and Biology</i> , <b>2015</b> , 85, 14-24	3.9	40
79	A hydrophilic interaction liquid chromatography-mass spectrometry (HILIC-MS) based metabolomics study on colour stability of ovine meat. <i>Meat Science</i> , <b>2016</b> , 117, 163-72	6.4	39
78	Non-targeted analysis of tea by hydrophilic interaction liquid chromatography and high resolution mass spectrometry. <i>Food Chemistry</i> , <b>2012</b> , 134, 1616-23	8.5	38
77	Identification of extracellular siderophores and a related peptide from the endophytic fungus <i>Epichloa festucae</i> in culture and endophyte-infected <i>Lolium perenne</i> . <i>Phytochemistry</i> , <b>2012</b> , 75, 128-39	4	37
76	Variation of proanthocyanidins in Lotus species. <i>Journal of Chemical Ecology</i> , <b>2006</b> , 32, 1797-816	2.7	36
75	Changes in composition and quality characteristics of ovine meat and fat from castrates and rams aged to 2 years. <i>New Zealand Journal of Agricultural Research</i> , <b>2006</b> , 49, 419-430	1.9	35
74	Monitoring tea fermentation/manufacturing by direct analysis in real time (DART) mass spectrometry. <i>Food Chemistry</i> , <b>2013</b> , 141, 2060-5	8.5	31
73	The effects of carbohydrate structure on the composition and functionality of the human gut microbiota. <i>Trends in Food Science and Technology</i> , <b>2020</b> , 97, 233-248	15.3	29
72	HPLC/MS/MS profiling of proanthocyanidins in teas: A comparative study. <i>Journal of Food Composition and Analysis</i> , <b>2012</b> , 26, 43-51	4.1	29
71	Skatole and indole concentration and the odour of fat from lambs that had grazed perennial ryegrass/white clover pasture or Lotus corniculatus. <i>Animal Feed Science and Technology</i> , <b>2007</b> , 138, 254-271	3.2	28
70	The use of genomics and metabolomics methods to quantify fungal endosymbionts and alkaloids in grasses. <i>Methods in Molecular Biology</i> , <b>2012</b> , 860, 213-26	1.4	26
69	E/Z-Thesinine-O-4 $\alpha$ -rhamnoside, pyrrolizidine conjugates produced by grasses (Poaceae). <i>Phytochemistry</i> , <b>2008</b> , 69, 1927-32	4	26
68	A comparison of phenol and indole flavour compounds in fat, and of phenols in urine of cattle fed pasture or grain. <i>New Zealand Journal of Agricultural Research</i> , <b>1999</b> , 42, 289-296	1.9	25
67	The effects of condensed tannins from <i>Dorycnium rectum</i> on skatole and indole ruminal biogenesis for grazing sheep. <i>Australian Journal of Agricultural Research</i> , <b>2005</b> , 56, 1331		23
66	Condensed tannins and flavonoids from the forage legume sulla ( <i>Hedysarum coronarium</i> ). <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 9402-9	5.7	22

65	A reverse-phase liquid chromatography/mass spectrometry method for the analysis of high-molecular-weight fructooligosaccharides. <i>Analytical Biochemistry</i> , <b>2009</b> , 395, 113-5	3.1	22
64	Analysis of high-molecular-weight fructan polymers in crude plant extracts by high-resolution LC-MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 2955-63	4.4	21
63	Omics analysis reveals variations among commercial sources of bovine milk fat globule membrane. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 3002-3016	4	21
62	Isolation and characterisation of procyanidins from <i>Rumex obtusifolius</i> . <i>Phytochemical Analysis</i> , <b>2007</b> , 18, 193-203	3.4	20
61	Gastroparesis and lipid metabolism-associated dysbiosis in Wistar-Kyoto rats. <i>American Journal of Physiology - Renal Physiology</i> , <b>2017</b> , 313, G62-G72	5.1	19
60	Reduced efficacy of moxidectin and abamectin in young red deer ( <i>Cervus elaphus</i> ) after 20 years of moxidectin pour-on use on a New Zealand deer farm. <i>Veterinary Parasitology</i> , <b>2014</b> , 199, 81-92	2.8	19
59	Characterization of Proanthocyanidins from Seeds of Perennial Ryegrass ( <i>Lolium perenne</i> L.) and Tall Fescue ( <i>Festuca arundinacea</i> ) by Liquid Chromatography-Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 6676-84	5.7	18
58	Floral procyanidins of the forage legume red clover ( <i>Trifolium pratense</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , <b>2004</b> , 52, 1581-5	5.7	18
57	Infant Complementary Feeding of Prebiotics for the Microbiome and Immunity. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	18
56	Association of Plasma Lipids and Polar Metabolites with Low Bone Mineral Density in Singaporean-Chinese Menopausal Women: A Pilot Study. <i>International Journal of Environmental Research and Public Health</i> , <b>2018</b> , 15,	4.6	17
55	The efficacy and plasma profiles of abamectin plus levamisole combination anthelmintics administered as oral and pour-on formulations to cattle. <i>Veterinary Parasitology</i> , <b>2016</b> , 227, 85-92	2.8	16
54	Analysis of low molecular weight metabolites in tea using mass spectrometry-based analytical methods. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2014</b> , 54, 924-37	11.5	16
53	Identification of urinary biomarkers of colon inflammation in IL10 <sup>-/-</sup> mice using Short-Column LCMS metabolomics. <i>Journal of Biomedicine and Biotechnology</i> , <b>2011</b> , 2011, 974701		16
52	Gut Microbial Metabolites and Biochemical Pathways Involved in Irritable Bowel Syndrome: Effects of Diet and Nutrition on the Microbiome. <i>Journal of Nutrition</i> , <b>2020</b> , 150, 1012-1021	4.1	16
51	Distribution of fatty acids and phospholipids in different table cuts and co-products from New Zealand pasture-fed Wagyu-dairy cross beef cattle. <i>Meat Science</i> , <b>2018</b> , 140, 26-37	6.4	15
50	Computational analyses of spectral trees from electrospray multi-stage mass spectrometry to aid metabolite identification. <i>Metabolites</i> , <b>2013</b> , 3, 1036-50	5.6	15
49	The effect of supplementation of a white clover or perennial ryegrass diet with grape seed extract on indole and skatole metabolism and the sensory characteristics of lamb. <i>Journal of the Science of Food and Agriculture</i> , <b>2007</b> , 87, 1030-1041	4.3	14
48	Metabolic changes and associated cytokinin signals in response to nitrate assimilation in roots and shoots of <i>Lolium perenne</i> . <i>Physiologia Plantarum</i> , <b>2016</b> , 156, 497-511	4.6	14

47	A combination of lipidomics, MS imaging, and PET scan imaging reveals differences in cerebral activity in rat pups according to the lipid quality of infant formulas. <i>FASEB Journal</i> , <b>2018</b> , 32, 4776-4790	0.9	12
46	Expression and functional characterization of a white clover isoflavone synthase in tobacco. <i>Annals of Botany</i> , <b>2012</b> , 110, 1291-301	4.1	12
45	Selection for anthelmintic resistant <i>Teladorsagia circumcincta</i> in pre-weaned lambs by treating their dams with long-acting moxidectin injection. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , <b>2015</b> , 5, 209-14	4	11
44	Metabolome and microbiome profiling of a stress-sensitive rat model of gut-brain axis dysfunction. <i>Scientific Reports</i> , <b>2019</b> , 9, 14026	4.9	10
43	Polyethylene glycol increases intestinal absorption and hepatic uptake of indole and skatole in sheep fed sulla. <i>Journal of Animal and Feed Sciences</i> , <b>2004</b> , 13, 339-342	1.5	10
42	Glycan Utilisation and Function in the Microbiome of Weaning Infants. <i>Microorganisms</i> , <b>2019</b> , 7,	4.9	9
41	A large-scale metabolomics study to harness chemical diversity and explore biochemical mechanisms in ryegrass. <i>Communications Biology</i> , <b>2019</b> , 2, 87	6.7	8
40	Untargeted Metabotyping Reveals Population-Level Variation in Plant Flavonoids and Alkaloids. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 133	6.2	8
39	Tissue-Specific Sample Dilution: An Important Parameter to Optimise Prior to Untargeted LC-MS Metabolomics. <i>Metabolites</i> , <b>2019</b> , 9,	5.6	7
38	Digestive-resistant carbohydrates affect lipid metabolism in rats. <i>Metabolomics</i> , <b>2016</b> , 12, 1	4.7	6
37	Elevation of Condensed Tannins in the Leaves of Ta-MYB14-1 White Clover ( L.) Outcrossed with High Anthocyanin Lines. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 2927-2939	5.7	6
36	Digestive Responses to Fortified Cow or Goat Dairy Drinks: A Randomised Controlled Trial. <i>Nutrients</i> , <b>2018</b> , 10,	6.7	6
35	Lipidomics of Brain Tissues in Rats Fed Human Milk from Chinese Mothers or Commercial Infant Formula. <i>Metabolites</i> , <b>2019</b> , 9,	5.6	5
34	Impacts of endophyte infection of ryegrass on rhizosphere metabolome and microbial community. <i>Crop and Pasture Science</i> , <b>2015</b> , 66, 1049	2.2	5
33	Impact of a High Protein Intake on the Plasma Metabolome in Elderly Males: 10 Week Randomized Dietary Intervention. <i>Frontiers in Nutrition</i> , <b>2019</b> , 6, 180	6.2	5
32	Human milk and infant formula differentially alters the microbiota composition and functional gene relative abundance in the small and large intestines in weanling rats. <i>European Journal of Nutrition</i> , <b>2020</b> , 59, 2131-2143	5.2	5
31	Using non-targeted direct analysis in real time-mass spectrometry (DART-MS) to discriminate seeds based on endogenous or exogenous chemicals. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 8047-5844	4.4	4
30	Serum metabolomics using ultra performance liquid chromatography coupled to mass spectrometry in lactating dairy cows following a single dose of sporidesmin. <i>Metabolomics</i> , <b>2018</b> , 14, 61	4.7	4

29	Condensed Tannins in White Clover () Foliar Tissues Expressing the Transcription Factor TaMYB14-1 Bind to Forage Protein and Reduce Ammonia and Methane Emissions .. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 777354	6.2	4
28	Plasma Biomarkers and Identification of Resilient Metabolic Disruptions in Patients With Venous Thromboembolism Using a Metabolic Systems Approach. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2020</b> , 40, 2527-2538	9.4	4
27	Effects of short- and long-term glucocorticoid-induced osteoporosis on plasma metabolome and lipidome of ovariectomized sheep. <i>BMC Musculoskeletal Disorders</i> , <b>2020</b> , 21, 349	2.8	3
26	Low pyrrolizidine alkaloid levels in perennial ryegrass is associated with the absence of a homospermidine synthase gene. <i>BMC Plant Biology</i> , <b>2018</b> , 18, 56	5.3	3
25	The impact of genetics and environment on the polar fraction metabolome of commercial Brassica napus seeds: a multi-site study. <i>Seed Science Research</i> , <b>2019</b> , 29, 167-178	1.3	3
24	Metabolomic signatures for visceral adiposity and dysglycaemia in Asian Chinese and Caucasian European adults: the cross-sectional TOFI_Asia study. <i>Nutrition and Metabolism</i> , <b>2020</b> , 17, 95	4.6	3
23	Glucocorticoids affect bone mineral density and bone remodelling in OVX sheep: A pilot study. <i>Bone Reports</i> , <b>2018</b> , 9, 173-180	2.6	3
22	Concentrations of Fecal Bile Acids in Participants with Functional Gut Disorders and Healthy Controls. <i>Metabolites</i> , <b>2021</b> , 11,	5.6	3
21	Cohort Profile: The Christchurch IBS cOhort to investigate Mechanisms FOFor gut Relief and improved Transit (COMFORT). <i>Inflammatory Intestinal Diseases</i> , <b>2020</b> , 5, 132-143	2.5	2
20	Untargeted metabolomics reveals plasma metabolites predictive of ectopic fat in pancreas and liver as assessed by magnetic resonance imaging: the TOFI_Asia study. <i>International Journal of Obesity</i> , <b>2021</b> , 45, 1844-1854	5.5	2
19	A multivariate snapshot of New Zealand milk seasonality in individual cows. <i>International Dairy Journal</i> , <b>2021</b> , 114, 104940	3.5	2
18	Dynamic In Vitro Gastric Digestion of Sheep Milk: Influence of Homogenization and Heat Treatment. <i>Foods</i> , <b>2021</b> , 10,	4.9	2
17	Untargeted metabolic profiling of dogs with a suspected toxic mitochondrial myopathy using liquid chromatography-mass spectrometry. <i>Toxicon</i> , <b>2019</b> , 166, 46-55	2.8	1
16	Low Energy Diet-induced and Bariatric Surgery-induced Weight Loss Decreases Branched-chain and Aromatic Amino Acids in Plasma and Tissue (P21-078-19). <i>Current Developments in Nutrition</i> , <b>2019</b> , 3,	0.4	1
15	Automated high through-put analysis of fractions generated during the isolation of natural products. <i>New Zealand Journal of Agricultural Research</i> , <b>2012</b> , 55, 15-20	1.9	1
14	Identifying biomarkers relevant to functional gastrointestinal disorders using a systems biology approach. <i>FASEB Journal</i> , <b>2018</b> , 32, 759.7	0.9	1
13	Postprandial One-Carbon Metabolite Responses Are Dependent on Meal Composition and Age: A Comparison Between Older and Younger Adults. <i>Current Developments in Nutrition</i> , <b>2020</b> , 4, 1789-1789	0.4	1
12	Metabolomics of Plant Phosphorus-Starvation Response <b>2018</b> , 217-236		1

11	Route of administration affects the efficacy of moxidectin against Ostertagiinae nematodes in farmed red deer ( <i>Cervus elaphus</i> ). <i>Veterinary Parasitology</i> , <b>2021</b> , 298, 109525	2.8	1
10	The (oilseed rape) seeds bioactive health effects are modulated by agronomical traits as assessed by a multi-scale omics approach in the metabolically impaired -mouse.. <i>Food Chemistry Molecular Sciences</i> , <b>2021</b> , 2, 100011	1	0
9	Effect of a Tailored Dietary Intervention with High or Standard Protein Intake on B-Vitamin and One Carbon Metabolism Status in Healthy Older Males: A 10 Week Randomised Controlled Trial. <i>Proceedings (mdpi)</i> , <b>2019</b> , 8, 19	0.3	
8	Effect of a Tailored Dietary Intervention with High or Standard Protein Intake on B-Vitamin and One Carbon Metabolism Status in Healthy Older Males: A 10 Week Randomised Controlled Trial. <i>Proceedings (mdpi)</i> , <b>2019</b> , 8, 36	0.3	
7	Metabolomics of plant phosphorus-starvation response <b>2015</b> , 215-236		
6	Exploring the link between Irritable Bowel Syndrome and the microbiome. <i>FASEB Journal</i> , <b>2018</b> , 32, 765.4.9		
5	A protocol combining breath testing and fermentations to study the human gut microbiome. <i>STAR Protocols</i> , <b>2021</b> , 2, 100227	1.4	
4	Regular Consumption of Either Red Meat or Soy Protein Does Not Raise Cardiovascular Disease Risk Factors in Men at Heightened Risk. <i>Proceedings (mdpi)</i> , <b>2019</b> , 37, 21	0.3	
3	NexGen Sequencing Data: Bioinformatic Tools for Visualization and Analysis <b>2021</b> , 47-90		
2	Effect of narrow-leaved plantain cultivar on development of two geometrid pests, <i>Scopula rubraria</i> and <i>Epyaxa rosearia</i> . <i>New Zealand Journal of Agricultural Research</i> , <b>2018</b> , 61, 403-413	1.9	
1	"Nourish to Flourish": complementary feeding for a healthy infant gut microbiome-a non-randomised pilot feasibility study.. <i>Pilot and Feasibility Studies</i> , <b>2022</b> , 8, 103	1.9	