

Karl Fraser

List of Publications by Year in Descending Order

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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	"Nourish to Flourish": complementary feeding for a healthy infant gut microbiome-a non-randomised pilot feasibility study.. <i>Pilot and Feasibility Studies</i> , 2022 , 8, 103	1.9	
99	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> , 2021 , 12, 777354	6.2	4
98	A protocol combining breath testing and fermentations to study the human gut microbiome. <i>STAR Protocols</i> , 2021 , 2, 100227	1.4	
97	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> , 2021 , 45, 1844-1854	5.5	2
96	NexGen Sequencing Data: Bioinformatic Tools for Visualization and Analysis 2021 , 47-90		
95	A multivariate snapshot of New Zealand milk seasonality in individual cows. <i>International Dairy Journal</i> , 2021 , 114, 104940	3.5	2
94	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> , 2021 , 2, 100011	1	0
93	Dynamic In Vitro Gastric Digestion of Sheep Milk: Influence of Homogenization and Heat Treatment. <i>Foods</i> , 2021 , 10,	4.9	2
92	Concentrations of Fecal Bile Acids in Participants with Functional Gut Disorders and Healthy Controls. <i>Metabolites</i> , 2021 , 11,	5.6	3
91	Route of administration affects the efficacy of moxidectin against Ostertagiinae nematodes in farmed red deer (<i>Cervus elaphus</i>). <i>Veterinary Parasitology</i> , 2021 , 298, 109525	2.8	1
90	Effects of short- and long-term glucocorticoid-induced osteoporosis on plasma metabolome and lipidome of ovariectomized sheep. <i>BMC Musculoskeletal Disorders</i> , 2020 , 21, 349	2.8	3
89	The effects of carbohydrate structure on the composition and functionality of the human gut microbiota. <i>Trends in Food Science and Technology</i> , 2020 , 97, 233-248	15.3	29
88	Omics analysis reveals variations among commercial sources of bovine milk fat globule membrane. <i>Journal of Dairy Science</i> , 2020 , 103, 3002-3016	4	21
87	Gut Microbial Metabolites and Biochemical Pathways Involved in Irritable Bowel Syndrome: Effects of Diet and Nutrition on the Microbiome. <i>Journal of Nutrition</i> , 2020 , 150, 1012-1021	4.1	16
86	Connecting Infant Complementary Feeding Patterns with Microbiome Development. <i>Current Developments in Nutrition</i> , 2020 , 4, 1034-1034	0.4	78
85	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> , 2020 , 4, 1581-1581	0.4	78
84	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> , 2020 , 4, 1789-1789	0.4	1

83	Cohort Profile: The Christchurch IBS cOhort to investigate Mechanisms FOr gut Relief and improved Transit (COMFORT). <i>Inflammatory Intestinal Diseases</i> , 2020 , 5, 132-143	2.5	2
82	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> , 2020 , 17, 95	4.6	3
81	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> , 2020 , 40, 2527-2538	9.4	4
80	Infant Feeding Frequency Impacts Human Milk Composition: A Metabolomic Analysis. <i>Current Developments in Nutrition</i> , 2020 , 4, 986-986	0.4	78
79	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> , 2020 , 68, 2927-2939	5.7	6
78	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> , 2020 , 59, 2131-2143	5.2	5
77	Lipidomics of Brain Tissues in Rats Fed Human Milk from Chinese Mothers or Commercial Infant Formula. <i>Metabolites</i> , 2019 , 9,	5.6	5
76	Metabolome and microbiome profiling of a stress-sensitive rat model of gut-brain axis dysfunction. <i>Scientific Reports</i> , 2019 , 9, 14026	4.9	10
75	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> , 2019 , 3,	0.4	78
74	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> , 2019 , 3,	0.4	78
73	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> , 2019 , 3,	0.4	78
72	Untargeted metabolic profiling of dogs with a suspected toxic mitochondrial myopathy using liquid chromatography-mass spectrometry. <i>Toxicon</i> , 2019 , 166, 46-55	2.8	1
71	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> , 2019 , 8, 19	0.3	
70	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> , 2019 , 8, 36	0.3	
69	A large-scale metabolomics study to harness chemical diversity and explore biochemical mechanisms in ryegrass. <i>Communications Biology</i> , 2019 , 2, 87	6.7	8
68	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> , 2019 , 29, 167-178	1.3	3
67	Glycan Utilisation and Function in the Microbiome of Weaning Infants. <i>Microorganisms</i> , 2019 , 7,	4.9	9
66	Tissue-Specific Sample Dilution: An Important Parameter to Optimise Prior to Untargeted LC-MS Metabolomics. <i>Metabolites</i> , 2019 , 9,	5.6	7

65	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> , 2019 , 3,	0.4	1
64	Infant Complementary Feeding of Prebiotics for the Microbiome and Immunity. <i>Nutrients</i> , 2019 , 11,	6.7	18
63	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> , 2019 , 37, 21	0.3	
62	Impact of a High Protein Intake on the Plasma Metabolome in Elderly Males: 10 Week Randomized Dietary Intervention. <i>Frontiers in Nutrition</i> , 2019 , 6, 180	6.2	5
61	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> , 2018 , 140, 26-37	6.4	15
60	Serum metabolomics using ultra performance liquid chromatography coupled to mass spectrometry in lactating dairy cows following a single dose of sporidesmin. <i>Metabolomics</i> , 2018 , 14, 61	4.7	4
59	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> , 2018 , 32, 4776-4790	0.9	12
58	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> , 2018 , 15,	4.6	17
57	Low pyrrolizidine alkaloid levels in perennial ryegrass is associated with the absence of a homospermidine synthase gene. <i>BMC Plant Biology</i> , 2018 , 18, 56	5.3	3
56	Exploring the link between Irritable Bowel Syndrome and the microbiome. <i>FASEB Journal</i> , 2018 , 32, 765.4.9		
55	Identifying biomarkers relevant to functional gastrointestinal disorders using a systems biology approach. <i>FASEB Journal</i> , 2018 , 32, 759.7	0.9	1
54	Metabolomics of Plant Phosphorus-Starvation Response 2018 , 217-236		1
53	Glucocorticoids affect bone mineral density and bone remodelling in OVX sheep: A pilot study. <i>Bone Reports</i> , 2018 , 9, 173-180	2.6	3
52	Digestive Responses to Fortified Cow or Goat Dairy Drinks: A Randomised Controlled Trial. <i>Nutrients</i> , 2018 , 10,	6.7	6
51	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> , 2018 , 61, 403-413	1.9	
50	Gastroparesis and lipid metabolism-associated dysbiosis in Wistar-Kyoto rats. <i>American Journal of Physiology - Renal Physiology</i> , 2017 , 313, G62-G72	5.1	19
49	Untargeted Metabotyping Reveals Population-Level Variation in Plant Flavonoids and Alkaloids. <i>Frontiers in Plant Science</i> , 2017 , 8, 133	6.2	8
48	The efficacy and plasma profiles of abamectin plus levamisole combination anthelmintics administered as oral and pour-on formulations to cattle. <i>Veterinary Parasitology</i> , 2016 , 227, 85-92	2.8	16

47	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> , 2016 , 64, 6676-84	5.7	18
46	A hydrophilic interaction liquid chromatography-mass spectrometry (HILIC-MS) based metabolomics study on colour stability of ovine meat. <i>Meat Science</i> , 2016 , 117, 163-72	6.4	39
45	Metabolic changes and associated cytokinin signals in response to nitrate assimilation in roots and shoots of <i>Lolium perenne</i> . <i>Physiologia Plantarum</i> , 2016 , 156, 497-511	4.6	14
44	Digestive-resistant carbohydrates affect lipid metabolism in rats. <i>Metabolomics</i> , 2016 , 12, 1	4.7	6
43	Predicting retention time in hydrophilic interaction liquid chromatography mass spectrometry and its use for peak annotation in metabolomics. <i>Metabolomics</i> , 2015 , 11, 696-706	4.7	60
42	Metabolomics of plant phosphorus-starvation response 2015 , 215-236		
41	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> , 2015 , 407, 8047-58	4.4	4
40	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> , 2015 , 5, 209-14	4	11
39	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> , 2015 , 85, 14-24	3.9	40
38	Impacts of endophyte infection of ryegrass on rhizosphere metabolome and microbial community. <i>Crop and Pasture Science</i> , 2015 , 66, 1049	2.2	5
37	Non-targeted analysis by LC-MS of major metabolite changes during the oolong tea manufacturing in New Zealand. <i>Food Chemistry</i> , 2014 , 151, 394-403	8.5	45
36	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> , 2014 , 199, 81-92	2.8	19
35	Analysis of low molecular weight metabolites in tea using mass spectrometry-based analytical methods. <i>Critical Reviews in Food Science and Nutrition</i> , 2014 , 54, 924-37	11.5	16
34	Analysis of metabolic markers of tea origin by UHPLC and high resolution mass spectrometry. <i>Food Research International</i> , 2013 , 53, 827-835	7	40
33	Monitoring tea fermentation/manufacturing by direct analysis in real time (DART) mass spectrometry. <i>Food Chemistry</i> , 2013 , 141, 2060-5	8.5	31
32	An extracellular siderophore is required to maintain the mutualistic interaction of <i>Epichloa festucae</i> with <i>Lolium perenne</i> . <i>PLoS Pathogens</i> , 2013 , 9, e1003332	7.6	73
31	Computational analyses of spectral trees from electrospray multi-stage mass spectrometry to aid metabolite identification. <i>Metabolites</i> , 2013 , 3, 1036-50	5.6	15
30	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> , 2012 , 75, 128-39	4	37

29	HPLCMS/MS profiling of proanthocyanidins in teas: A comparative study. <i>Journal of Food Composition and Analysis</i> , 2012 , 26, 43-51	4.1	29
28	Functional analysis of an indole-diterpene gene cluster for lolitrem B biosynthesis in the grass endosymbiont <i>Epichloa festucae</i> . <i>FEBS Letters</i> , 2012 , 586, 2563-9	3.8	57
27	Non-targeted analysis of tea by hydrophilic interaction liquid chromatography and high resolution mass spectrometry. <i>Food Chemistry</i> , 2012 , 134, 1616-23	8.5	38
26	The use of genomics and metabolomics methods to quantify fungal endosymbionts and alkaloids in grasses. <i>Methods in Molecular Biology</i> , 2012 , 860, 213-26	1.4	26
25	Automated high through-put analysis of fractions generated during the isolation of natural products. <i>New Zealand Journal of Agricultural Research</i> , 2012 , 55, 15-20	1.9	1
24	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> , 2012 , 159, 1204-20	6.6	93
23	Expression and functional characterization of a white clover isoflavone synthase in tobacco. <i>Annals of Botany</i> , 2012 , 110, 1291-301	4.1	12
22	Condensed tannins and flavonoids from the forage legume sulla (<i>Hedysarum coronarium</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 9402-9	5.7	22
21	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> , 2011 , 25, 910-920	5.6	83
20	Analysis of high-molecular-weight fructan polymers in crude plant extracts by high-resolution LC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 2955-63	4.4	21
19	Identification of urinary biomarkers of colon inflammation in IL10-/- mice using Short-Column LCMS metabolomics. <i>Journal of Biomedicine and Biotechnology</i> , 2011 , 2011, 974701		16
18	A reverse-phase liquid chromatography/mass spectrometry method for the analysis of high-molecular-weight fructooligosaccharides. <i>Analytical Biochemistry</i> , 2009 , 395, 113-5	3.1	22
17	Metabolic profiles of <i>Lolium perenne</i> are differentially affected by nitrogen supply, carbohydrate content, and fungal endophyte infection. <i>Plant Physiology</i> , 2008 , 146, 1440-53	6.6	132
16	E/Z-Thesinine-O-4 α -rhamnoside, pyrrolizidine conjugates produced by grasses (Poaceae). <i>Phytochemistry</i> , 2008 , 69, 1927-32	4	26
15	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> , 2007 , 87, 1030-1041	4.3	14
14	Peramine and other fungal alkaloids are exuded in the guttation fluid of endophyte-infected grasses. <i>Phytochemistry</i> , 2007 , 68, 355-60	4	85
13	High-throughput direct-infusion ion trap mass spectrometry: a new method for metabolomics. <i>Rapid Communications in Mass Spectrometry</i> , 2007 , 21, 421-8	2.2	73
12	Isolation and characterisation of procyanidins from <i>Rumex obtusifolius</i> . <i>Phytochemical Analysis</i> , 2007 , 18, 193-203	3.4	20

11	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> , 2007 , 138, 254-271	3	28
10	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> , 2006 , 49, 419-430	1.9	35
9	Variation of proanthocyanidins in Lotus species. <i>Journal of Chemical Ecology</i> , 2006 , 32, 1797-816	2.7	36
8	The effects of condensed tannins from Dorycnium rectum on skatole and indole ruminal biogenesis for grazing sheep. <i>Australian Journal of Agricultural Research</i> , 2005 , 56, 1331		23
7	Variation in antimicrobial action of proanthocyanidins from Dorycnium rectum against rumen bacteria. <i>Phytochemistry</i> , 2004 , 65, 2485-97	4	51
6	Floral procyanidins of the forage legume red clover (<i>Trifolium pratense</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 1581-5	5.7	18
5	Characterization of condensed tannins from Lotus species by thiolytic degradation and electrospray mass spectrometry. <i>Animal Feed Science and Technology</i> , 2004 , 117, 151-163	3	43
4	Polyethylene glycol increases intestinal absorption and hepatic uptake of indole and skatole in sheep fed sulla. <i>Journal of Animal and Feed Sciences</i> , 2004 , 13, 339-342	1.5	10
3	Pastoral and species flavour in lambs raised on pasture, lucerne or maize. <i>Journal of the Science of Food and Agriculture</i> , 2003 , 83, 93-104	4.3	113
2	Biochemical outcome of blocking the ergot alkaloid pathway of a grass endophyte. <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 6429-37	5.7	49
1	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> , 1999 , 42, 289-296	1.9	25