

Gwenaelle Le Gall

List of Publications by Citations

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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.

67
papers

2,979
citations

31
h-index

54
g-index

77
ext. papers

3,720
ext. citations

6.4
avg, IF

4.91
L-index

#	Paper	IF	Citations
67	Metabolomics of fecal extracts detects altered metabolic activity of gut microbiota in ulcerative colitis and irritable bowel syndrome. <i>Journal of Proteome Research</i> , 2011 , 10, 4208-18	5.6	244
66	Metabolite profiling of tomato (<i>Lycopersicon esculentum</i>) using ¹ H NMR spectroscopy as a tool to detect potential unintended effects following a genetic modification. <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 2447-56	5.7	235
65	Metabolite profiling using (¹ H) NMR spectroscopy for quality assessment of green tea, <i>Camellia sinensis</i> (L.). <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 692-700	5.7	173
64	Utilisation of mucin glycans by the human gut symbiont <i>Ruminococcus gnavus</i> is strain-dependent. <i>PLoS ONE</i> , 2013 , 8, e76341	3.7	165
63	Gene and metabolite regulatory network analysis of early developing fruit tissues highlights new candidate genes for the control of tomato fruit composition and development. <i>Plant Physiology</i> , 2009 , 149, 1505-28	6.6	159
62	Characterization and content of flavonoid glycosides in genetically modified tomato (<i>Lycopersicon esculentum</i>) fruits. <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 2438-46	5.7	145
61	Discrimination between orange juice and pulp wash by (¹ H) Nuclear Magnetic Resonance spectroscopy: identification of marker compounds. <i>Journal of Agricultural and Food Chemistry</i> , 2001 , 49, 580-8	5.7	119
60	Antibiotics induce sustained dysregulation of intestinal T cell immunity by perturbing macrophage homeostasis. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	104
59	Discovery of intramolecular trans-sialidases in human gut microbiota suggests novel mechanisms of mucosal adaptation. <i>Nature Communications</i> , 2015 , 6, 7624	17.4	95
58	Fruit juice authentication by ¹ H NMR spectroscopy in combination with different chemometrics tools. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 419-27	4.4	86
57	Can we trust untargeted metabolomics? Results of the metabo-ring initiative, a large-scale, multi-instrument inter-laboratory study. <i>Metabolomics</i> , 2015 , 11, 807-821	4.7	84
56	Structure and biosynthesis of two exopolysaccharides produced by <i>Lactobacillus johnsonii</i> FI9785. <i>Journal of Biological Chemistry</i> , 2013 , 288, 31938-51	5.4	83
55	Mechanistic Insights Into the Cross-Feeding of and on Host and Dietary Carbohydrates. <i>Frontiers in Microbiology</i> , 2018 , 9, 2558	5.7	71
54	Multivariate techniques and their application in nutrition: a metabolomics case study. <i>British Journal of Nutrition</i> , 2007 , 98, 1-14	3.6	70
53	genotype influences the gut microbiome structure and function in humans and mice: relevance for Alzheimer's disease pathophysiology. <i>FASEB Journal</i> , 2019 , 33, 8221-8231	0.9	60
52	Low-field (¹ H) NMR spectroscopy for distinguishing between arabica and robusta ground roast coffees. <i>Food Chemistry</i> , 2017 , 216, 106-13	8.5	58
51	Faecal microbiota transplant from aged donor mice affects spatial learning and memory via modulating hippocampal synaptic plasticity- and neurotransmission-related proteins in young recipients. <i>Microbiome</i> , 2020 , 8, 140	16.6	51

50	1H-NMR-based metabolic profiling of maternal and umbilical cord blood indicates altered materno-foetal nutrient exchange in preterm infants. <i>PLoS ONE</i> , 2012 , 7, e29947	3.7	50
49	Offspring metabolomic response to maternal protein restriction in a rat model of intrauterine growth restriction (IUGR). <i>Journal of Proteome Research</i> , 2011 , 10, 3292-302	5.6	48
48	Light-Driven H ₂ Evolution and C?C or C?O Bond Hydrogenation by <i>Shewanella oneidensis</i> : A Versatile Strategy for Photocatalysis by Nonphotosynthetic Microorganisms. <i>ACS Catalysis</i> , 2017 , 7, 7558-7566	13.1	47
47	Metabolomics of prolonged fasting in humans reveals new catabolic markers. <i>Metabolomics</i> , 2011 , 7, 375-387	4.7	47
46	Temporal and spatial changes in cell wall composition in developing grains of wheat cv. Hereward. <i>Planta</i> , 2010 , 232, 677-89	4.7	45
45	Characterization of cell wall components of wheat straw following hydrothermal pretreatment and fractionation. <i>Bioresource Technology</i> , 2013 , 131, 226-34	11	44
44	Maternal and cord blood LC-HRMS metabolomics reveal alterations in energy and polyamine metabolism, and oxidative stress in very-low birth weight infants. <i>Journal of Proteome Research</i> , 2013 , 12, 2764-78	5.6	42
43	Structural analysis of the β -glucan produced by the sourdough isolate <i>Lactobacillus brevis</i> E25. <i>Food Chemistry</i> , 2018 , 242, 45-52	8.5	39
42	16-O-methylcafestol is present in ground roast Arabica coffees: Implications for authenticity testing. <i>Food Chemistry</i> , 2018 , 248, 52-60	8.5	36
41	A decrease in iron availability to human gut microbiome reduces the growth of potentially pathogenic gut bacteria; an in vitro colonic fermentation study. <i>Journal of Nutritional Biochemistry</i> , 2019 , 67, 20-27	6.3	35
40	Remodelling of arabinoxylan in wheat (<i>Triticum aestivum</i>) endosperm cell walls during grain filling. <i>Planta</i> , 2009 , 229, 667-80	4.7	34
39	Structural and Functional Alterations in the Microbial Community and Immunological Consequences in a Mouse Model of Antibiotic-Induced Dysbiosis. <i>Frontiers in Microbiology</i> , 2018 , 9, 1948	5.7	33
38	Selenium-dependent biogenesis of formate dehydrogenase in <i>Campylobacter jejuni</i> is controlled by the fdhTU accessory genes. <i>Journal of Bacteriology</i> , 2012 , 194, 3814-23	3.5	33
37	Spectroscopic analysis of diversity of Arabinoxylan structures in endosperm cell walls of wheat cultivars (<i>Triticum aestivum</i>) in the HEALTHGRAIN diversity collection. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 7075-82	5.7	31
36	Optimising conditions for bioethanol production from rice husk and rice straw: effects of pre-treatment on liquor composition and fermentation inhibitors. <i>Biotechnology for Biofuels</i> , 2018 , 11, 62	7.8	29
35	Analysis of the Small Molecule Content of Outer Membrane Vesicles Produced by Indicates an Extensive Metabolic Link between Microbe and Host. <i>Frontiers in Microbiology</i> , 2017 , 8, 2440	5.7	28
34	Evolving window zone selection method followed by independent component analysis as useful chemometric tools to discriminate between grapefruit juice, orange juice and blends. <i>Analytica Chimica Acta</i> , 2007 , 597, 203-13	6.6	26
33	Metabolite profiling of <i>Arabidopsis thaliana</i> (L.) plants transformed with an antisense chalcone synthase gene. <i>Metabolomics</i> , 2005 , 1, 181-198	4.7	26

32	Early adaptation to oxygen is key to the industrially important traits of <i>Lactococcus lactis</i> ssp. <i>cremoris</i> during milk fermentation. <i>BMC Genomics</i> , 2014 , 15, 1054	4.5	25
31	Microbial taxonomic and metabolic alterations during faecal microbiota transplantation to treat <i>Clostridium difficile</i> infection. <i>Journal of Infection</i> , 2018 , 77, 107-118	18.9	21
30	Fine-Tuning of Sirtuin 1 Expression Is Essential to Protect the Liver From Cholestatic Liver Disease. <i>Hepatology</i> , 2019 , 69, 699-716	11.2	21
29	Prediction of variability in CYP3A4 induction using a combined 1H NMR metabolomics and targeted UPLC-MS approach. <i>Journal of Proteome Research</i> , 2011 , 10, 2807-16	5.6	17
28	Spectroscopic analysis of diversity in the spatial distribution of arabinoxylan structures in endosperm cell walls of cereal species in the HEALTHGRAIN diversity collection. <i>Journal of Cereal Science</i> , 2012 , 56, 134-141	3.8	16
27	Shall I compare thee to a GM potato?. <i>Trends in Genetics</i> , 2006 , 22, 525-8	8.5	15
26	Metabolite quantification of faecal extracts from colorectal cancer patients and healthy controls. <i>Oncotarget</i> , 2018 , 9, 33278-33289	3.3	15
25	Perturbation of the gut microbiota by antibiotics results in accelerated breast tumour growth and metabolic dysregulation		15
24	The early life microbiota protects neonatal mice from pathological small intestinal epithelial cell shedding. <i>FASEB Journal</i> , 2020 , 34, 7075-7088	0.9	13
23	A Comparison of the ATP Generating Pathways Used by <i>S. Typhimurium</i> to Fuel Replication within Human and Murine Macrophage and Epithelial Cell Lines. <i>PLoS ONE</i> , 2016 , 11, e0150687	3.7	13
22	Acute Consumption of Flavan-3-ol-Enriched Dark Chocolate Affects Human Endogenous Metabolism. <i>Journal of Proteome Research</i> , 2017 , 16, 2516-2526	5.6	11
21	Yeast diversity in relation to the production of fuels and chemicals. <i>Scientific Reports</i> , 2017 , 7, 14259	4.9	11
20	Sodium dodecyl sulphate-polyacrylamide gel electrophoresis of proteins in dry-cured hams: data registration and multivariate analysis across multiple gels. <i>Electrophoresis</i> , 2006 , 27, 1288-99	3.6	11
19	Antibiotic-induced disturbances of the gut microbiota result in accelerated breast tumor growth. <i>IScience</i> , 2021 , 24, 103012	6.1	11
18	NMR spectroscopy of biofluids and extracts. <i>Methods in Molecular Biology</i> , 2015 , 1277, 29-36	1.4	9
17	Polyamine metabolism and transforming growth factor-beta signaling are affected in Caco-2 cells by differentially cooked broccoli extracts. <i>Journal of Nutrition</i> , 2008 , 138, 1840-5	4.1	8
16	Serine-rich repeat protein adhesins from <i>Lactobacillus reuteri</i> display strain specific glycosylation profiles. <i>Glycobiology</i> , 2019 , 29, 45-58	5.8	8
15	Fecal microbiota transfer between young and aged mice reverses hallmarks of the aging gut, eye, and brain.. <i>Microbiome</i> , 2022 , 10, 68	16.6	8

14	The divergent restoration effects of Lactobacillus strains in antibiotic-induced dysbiosis. <i>Journal of Functional Foods</i> , 2018 , 51, 142-152	5.1	7
13	Effect of dough mixing on wheat endosperm cell walls. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 2522-9	5.7	5
12	Identification of Genes Required for Glucan Exopolysaccharide Production in Lactobacillus johnsonii Suggests a Novel Biosynthesis Mechanism. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	5
11	Lactobacillus plantarum-Mediated Regulation of Dietary Aluminum Induces Changes in the Human Gut Microbiota: an In Vitro Colonic Fermentation Study. <i>Probiotics and Antimicrobial Proteins</i> , 2021 , 13, 398-412	5.5	5
10	Effects of in vitro metabolism of a broccoli leachate, glucosinolates and S-methylcysteine sulphoxide on the human faecal microbiome. <i>European Journal of Nutrition</i> , 2021 , 60, 2141-2154	5.2	5
9	Anti-Inflammatory Effects of Quercetin on High-Glucose and Pro-Inflammatory Cytokine Challenged Vascular Endothelial Cell Metabolism. <i>Molecular Nutrition and Food Research</i> , 2021 , 65, e2000777	5.9	5
8	Membrane-enclosed multienzyme (MEME) synthesis of 2,7-anhydro-sialic acid derivatives. <i>Carbohydrate Research</i> , 2017 , 451, 110-117	2.9	4
7	Metabolomics and the Detection of Unintended Effects in Genetically Modified Crops 2009 , 505-531		4
6	Lipopolysaccharide associated with β ,6 fructan mediates TLR4-dependent immunomodulatory activity in vitro. <i>Carbohydrate Polymers</i> , 2022 , 277, 118606	10.3	4
5	Sample collection and preparation of biofluids and extracts for NMR spectroscopy. <i>Methods in Molecular Biology</i> , 2015 , 1277, 15-28	1.4	4
4	Strategies for Data Handling and Statistical Analysis in Metabolomics Studies. <i>Advances in Botanical Research</i> , 2013 , 493-555	2.2	2
3	Faecal microbiota transplant from aged donor mice affects spatial learning and memory via modulating hippocampal synaptic plasticity- and neurotransmission-related proteins in young recipients		1
2	Systemic iron reduction by venesection alters the gut microbiome in patients with haemochromatosis. <i>JHEP Reports</i> , 2020 , 2, 100154	10.3	0
1	Metabolomics of plasma and urine samples from Peruvian infants receiving dietary zinc supplements. <i>FASEB Journal</i> , 2007 , 21, A708	0.9	