Kristin Verbeke

List of Publications by Year
in descending order

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Version: 2024-02-01

123 papers	17,442 citations	41258 49 h-index	24179 110 g-index
129 all docs	129 docs citations	129 times ranked	20113 citing authors

#	Article	IF	Citations
1	Expert consensus document: The International Scientific Association for Probiotics and Prebiotics (ISAPP) consensus statement on the definition and scope of prebiotics. Nature Reviews Gastroenterology and Hepatology, 2017, 14, 491-502.	8.2	3,192
2	The role of short-chain fatty acids in microbiotaâ€“gutâ€“brain communication. Nature Reviews Gastroenterology and Hepatology, 2019, 16, 461-478.	8.2	1,519
3	A decrease of the butyrate-producing speciesRoseburia hominisandFaecalibacterium prausnitziidefines dysbiosis in patients with ulcerative colitis. Gut, 2014, 63, 1275-1283.	6.1	1,353
4	Dysbiosis of the gut microbiota in disease. Microbial Ecology in Health and Disease, 2015, 26, 26191.	3.8	949
5	Dysbiosis of the faecal microbiota in patients with Crohn's disease and their unaffected relatives. Gut, 2011, 60, 631-637.	6.1	871
6	The International Scientific Association for Probiotics and Prebiotics (ISAPP) consensus statement on the definition and scope of synbiotics. Nature Reviews Gastroenterology and Hepatology, 2020, 17, 687-701.	8.2	826
7	Intestinal permeability, gut-bacterial dysbiosis, and behavioral markers of alcohol-dependence severity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4485-93.	3.3	652
8	Relevance of protein fermentation to gut health. Molecular Nutrition and Food Research, 2012, 56, 184-196.	1.5	479
9	Prebiotic and Other Health-Related Effects of Cereal-Derived Arabinoxylans, Arabinoxylan-Oligosaccharides, and Xylooligosaccharides. Critical Reviews in Food Science and Nutrition, 2011, 51, 178-194.	5.4	458
10	Psychological stress and corticotropin-releasing hormone increase intestinal permeability in humans by a mast cell-dependent mechanism. Gut, 2014, 63, 1293-1299.	6.1	429
11	Prebiotic inulin-type fructans induce specific changes in the human gut microbiota. Gut, 2017, 66, 1968-1974.	6.1	370
12	Uremic toxins originating from colonic microbial metabolism. Kidney International, 2009, 76, S12-S19.	2.6	349
13	Short chain fatty acids and its producing organisms: An overlooked therapy for IBD?. EBioMedicine, 2021, 66, 103293.	2.7	281
14	p-Cresol and Cardiovascular Risk in Mild-to-Moderate Kidney Disease. Clinical Journal of the American Society of Nephrology: CJASN, 2010, 5, 1182-1189.	2.2	265
15	p-Cresyl sulfate serum concentrations in haemodialysis patients are reduced by the prebiotic oligofructose-enriched inulin. Nephrology Dialysis Transplantation, 2010, 25, 219-224.	0.4	260
16	Donor Species Richness Determines Faecal Microbiota Transplantation Success in Inflammatory Bowel Disease. Journal of Crohn's and Colitis, 2016, 10, 387-394.	0.6	256
17	The Uremic Retention Solute p-Cresyl Sulfate and Markers of Endothelial Damage. American Journal of Kidney Diseases, 2009, 54, 891-901.	2.1	219
18	Update on lactose malabsorption and intolerance: pathogenesis, diagnosis and clinical management. Gut, 2019, 68, 2080-2091.	6.1	211

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19	Faecal metabolite profiling identifies medium-chain fatty acids as discriminating compounds in IBD. Gut, 2015, 64, 447-458.	6.1	185
20	Gas Chromatographicâ€“Mass Spectrometric Analysis for Measurement of p-Cresol and Its Conjugated Metabolites in Uremic and Normal Serum. Clinical Chemistry, 2005, 51, 1535-1538.	1.5	172
21	Functional analysis of colonic bacterial metabolism: relevant to health?. American Journal of Physiology - Renal Physiology, 2012, 302, G1-G9.	1.6	167
22	Butyric acid-producing anaerobic bacteria as a novel probiotic treatment approach for inflammatory bowel disease. Journal of Medical Microbiology, 2010, 59, 141-143.	0.7	164
23	Establishing What Constitutes a Healthy Human Gut Microbiome: State of the Science, Regulatory Considerations, and Future Directions. Journal of Nutrition, 2019, 149, 1882-1895.	1.3	163
24	Effects of Lactobacillus casei Shirota, Bifidobacterium breve, and oligofructose-enriched inulin on colonic nitrogen-protein metabolism in healthy humans. American Journal of Physiology - Renal Physiology, 2007, 292, G358-G368.	1.6	157
25	A Critical Look at Prebiotics Within the Dietary Fiber Concept. Annual Review of Food Science and Technology, 2016, 7, 167-190.	5.1	149
26	The impact of preâ€•and/or probiotics on human colonic metabolism: Does it affect human health?. Molecular Nutrition and Food Research, 2011, 55, 46-57.	1.5	132
27	Quantification of in Vivo Colonic Short Chain Fatty Acid Production from Inulin. Nutrients, 2015, 7, 8916-8929.	1.7	127
28	Tolerance of arabinoxylan-oligosaccharides and their prebiotic activity in healthy subjects: a randomised, placebo-controlled cross-over study. British Journal of Nutrition, 2010, 103, 703-713.	1.2	125
29	Specific members of the predominant gut microbiota predict pouchitis following colectomy and IPAA in UC. Gut, 2017, 66, 79-88.	6.1	114
30	Evidence for impaired assimilation of protein in chronic renal failure. Kidney International, 2003, 64, 2196-2203.	2.6	107
31	Effects of a wheat bran extract containing arabinoxylan oligosaccharides on gastrointestinal health parameters in healthy adult human volunteers: a double-blind, randomised, placebo-controlled, cross-over trial. British Journal of Nutrition, 2012, 108, 2229-2242.	1.2	106
32	The Influence of CKD on Colonic Microbial Metabolism. Journal of the American Society of Nephrology: JASN, 2016, 27, 1389-1399.	3.0	106
33	Butyrate Producers as Potential Next-Generation Probiotics: Safety Assessment of the Administration of Butyricicoccus pullicaecorum to Healthy Volunteers. MSystems, 2018, 3, .	1.7	99
34	Renal Clearance and Intestinal Generation of p-Cresyl Sulfate and Indoxyl Sulfate in CKD. Clinical Journal of the American Society of Nephrology: CJASN, 2013, 8, 1508-1514.	2.2	93
35	Impaired butyrate oxidation in ulcerative colitis is due to decreased butyrate uptake and a defect in the oxidation pathway*. Inflammatory Bowel Diseases, 2012, 18, 1127-1136.	0.9	91
36	Colon-delivered short-chain fatty acids attenuate the cortisol response to psychosocial stress in healthy men: a randomized, placebo-controlled trial. Neuropsychopharmacology, 2020, 45, 2257-2266.	2.8	91

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37	Gut Microbiota-Induced Changes in Î²-Hydroxybutyrate Metabolism Are Linked to Altered Sociability and Depression in Alcohol Use Disorder. Cell Reports, 2020, 33, 108238.	2.9	87
38	Effects of cereal fiber on bowel function: A systematic review of intervention trials. World Journal of Gastroenterology, 2015, 21, 8952.	1.4	79
39	The Influence of Dietary Protein Intake on Mammalian Tryptophan and Phenolic Metabolites. PLoS ONE, 2015, 10, e0140820.	1.1	77
40	The Influence of Prebiotic Arabinoxylan Oligosaccharides on Microbiota Derived Uremic Retention Solutes in Patients with Chronic Kidney Disease: A Randomized Controlled Trial. PLoS ONE, 2016, 11, e0153893.	1.1	74
41	The circadian clock regulates the diurnal levels of microbial shortâ€chain fatty acids and their rhythmic effects on colon contractility in mice. Acta Physiologica, 2019, 225, e13193.	1.8	64
42	Development of a screening method to determine the pattern of fermentation metabolites in faecal samples using on-line purge-and-trap gas chromatographicâ€“mass spectrometric analysis. Journal of Chromatography A, 2009, 1216, 1476-1483.	1.8	62
43	Consumption of Breads Containing In Situâ€“Produced Arabinoxylan Oligosaccharides Alters Gastrointestinal Effects in Healthy Volunteers3. Journal of Nutrition, 2012, 142, 470-477.	1.3	61
44	Gastric emptying in healthy newborns fed an intact protein formula, a partially and an extensively hydrolysed formula. Clinical Nutrition, 2008, 27, 264-268.	2.3	60
45	Role for diet in normal gut barrier function: developing guidance within the framework of food-labeling regulations. American Journal of Physiology - Renal Physiology, 2019, 317, G17-G39.	1.6	60
46	Modulation of Protein Fermentation Does Not Affect Fecal Water Toxicity: A Randomized Cross-Over Study in Healthy Subjects. PLoS ONE, 2012, 7, e52387.	1.1	60
47	Prebiotics, Fermentable Dietary Fiber, and Health Claims. Advances in Nutrition, 2016, 7, 1-4.	2.9	57
48	The influence of inulin on the absorption of nitrogen and the production of metabolites of protein fermentation in the colon. British Journal of Nutrition, 2006, 96, 1078-1086.	1.2	53
49	Dose-Response Effect of Arabinoxylooligosaccharides on Gastrointestinal Motility and on Colonic Bacterial Metabolism in Healthy Volunteers. Journal of the American College of Nutrition, 2008, 27, 512-518.	1.1	53
50	Metformin induces weight loss associated with gut microbiota alteration in non-diabetic obese women: a randomized double-blind clinical trial. European Journal of Endocrinology, 2019, 180, 165-176.	1.9	53
51	Fat binding capacity and modulation of the gut microbiota both determine the effect of wheat bran fractions on adiposity. Scientific Reports, 2017, 7, 5621.	1.6	51
52	Effects of Wheat Bran Extract Containing Arabinoxylan Oligosaccharides on Gastrointestinal Parameters in Healthy Preadolescent Children. Journal of Pediatric Gastroenterology and Nutrition, 2014, 58, 647-653.	0.9	50
53	Effects of Cereal, Fruit and Vegetable Fibers on Human Fecal Weight and Transit Time: A Comprehensive Review of Intervention Trials. Nutrients, 2016, 8, 130.	1.7	49
54	Cardiovascular disease relates to intestinal uptake of p-cresol in patients with chronic kidney disease. BMC Nephrology, 2014, 15, 87.	0.8	48

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55	Progressive decline in tacrolimus clearance after renal transplantation is partially explained by decreasing CYP3A4 activity and increasing haematocrit. British Journal of Clinical Pharmacology, 2015, 80, 548-559.	1.1	48
56	Efficacy and safety of spore-forming probiotics in the treatment of functional dyspepsia: a pilot randomised, double-blind, placebo-controlled trial. The Lancet Gastroenterology and Hepatology, 2021, 6, 784-792.	3.7	48
57	The prebiotic, oligofructoseâ€enriched inulin modulates the faecal metabolite profile: Anin vitroanalysis. Molecular Nutrition and Food Research, 2010, 54, 1791-1801.	1.5	44
58	Modifying wheat bran to improve its health benefits. Critical Reviews in Food Science and Nutrition, 2020, 60, 1104-1122.	5.4	44
59	European guideline on indications, performance and clinical impact of ¹³Câ€breath tests in adult and pediatric patients: An EAGEN, ESNM, and ESPGHAN consensus, supported by EPC. United European Gastroenterology Journal, 2021, 9, 598-625.	1.6	43
60	Influence of Long-Term Administration of Lactulose andSaccharomyces Boulardiion the Colonic Generation of Phenolic Compounds in Healthy Human Subjects. Journal of the American College of Nutrition, 2006, 25, 541-549.	1.1	41
61	Decreased mucosal sulfide detoxification is related to an impaired butyrate oxidation in ulcerative colitis. Inflammatory Bowel Diseases, 2012, 18, 2371-2380.	0.9	39
62	Development of a Conjugate of99mTc-EC with Aminomethylenediphosphonate in the Search for a Bone Tracer with Fast Clearance from Soft Tissue. Bioconjugate Chemistry, 2002, 13, 16-22.	1.8	37
63	Optimization of the preparation of 99mTc-labeled Hynic-derivatized Annexin V for human use. Nuclear Medicine and Biology, 2003, 30, 771-778.	0.3	37
64	High-throughput method for comparative analysis of denaturing gradient gel electrophoresis profiles from human fecal samples reveals significant increases in two bifidobacterial species after inulin-type prebiotic intake. FEMS Microbiology Ecology, 2011, 75, 343-349.	1.3	37
65	Wheat bran extract alters colonic fermentation and microbial composition, but does not affect faecal water toxicity: a randomised controlled trial in healthy subjects. British Journal of Nutrition, 2015, 113, 225-238.	1.2	37
66	Introducing insoluble wheat bran as a gut microbiota niche in an in vitro dynamic gut model stimulates propionate and butyrate production and induces colon region specific shifts in the luminal and mucosal microbial community. Environmental Microbiology, 2018, 20, 3406-3426.	1.8	35
67	Brassicaceae seed oil identified as illuminant in Nilotic shells from a first millennium AD Coptic church in Bawit, Egypt. Analytical and Bioanalytical Chemistry, 2008, 390, 783-793.	1.9	32
68	Application of a multi-analytical toolset to a 16th century ointment: Identification as lead plaster mixed with beeswax. Microchemical Journal, 2010, 95, 227-234.	2.3	31
69	Preparation, analysis and biodistribution in mice of iodine-123 labelled derivatives of hypericin. Journal of Labelled Compounds and Radiopharmaceuticals, 2004, 47, 191-198.	0.5	27
70	Accuracy of Nutrient Calculations Using the Consumer-Focused Online App MyFitnessPal: Validation Study. Journal of Medical Internet Research, 2020, 22, e18237.	2.1	26
71	Night-time feeding of Bmal1âˆ'/âˆ' mice restores SCFA rhythms and their effect on ghrelin. Journal of Endocrinology, 2020, 245, 155-164.	1.2	25
72	Impact of the synbiotic combination of Lactobacillus casei shirota and oligofructoseâ€enriched inulin on the fecal volatile metabolite profile in healthy subjects. Molecular Nutrition and Food Research, 2011, 55, 714-722.	1.5	24

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73	Additional Value of CH4 Measurement in a Combined 13C/H2 Lactose Malabsorption Breath Test: A Retrospective Analysis. Nutrients, 2015, 7, 7469-7485.	1.7	23
74	The Role of Gut Dysbiosis in the Boneâ€“Vascular Axis in Chronic Kidney Disease. Toxins, 2020, 12, 285.	1.5	23
75	High dose of prebiotics reduces fecal water cytotoxicity in healthy subjects. Molecular Nutrition and Food Research, 2014, 58, 2206-2218.	1.5	22
76	Structural factors governing starch digestion and glycemic responses and how they can be modified by enzymatic approaches: A review and a guide. Comprehensive Reviews in Food Science and Food Safety, 2021, 20, 5965-5991.	5.9	22
77	Validation of a New Test Meal for a Protein Digestion Breath Test in Humans. Journal of Nutrition, 2004, 134, 806-810.	1.3	21
78	Contribution of Colonic Fermentation and Fecal Water Toxicity to the Pathophysiology of Lactose-Intolerance. Nutrients, 2015, 7, 7505-7522.	1.7	19
79	A highly sensitive liquid chromatography tandem mass spectrometry method for simultaneous quantification of midazolam, 1â€²-hydroxymidazolam and 4-hydroxymidazolam in human plasma. Biomedical Chromatography, 2011, 25, 1091-1098.	0.8	18
80	Wheat Bran Does Not Affect Postprandial Plasma Short-Chain Fatty Acids from 13C-inulin Fermentation in Healthy Subjects. Nutrients, 2017, 9, 83.	1.7	18
81	From Intestinal Permeability to Dysmotility: The Biobreeding Rat as a Model for Functional Gastrointestinal Disorders. PLoS ONE, 2014, 9, e111132.	1.1	16
82	Tolerance and the effect of high doses of wheat bran extract, containing arabinoxylanâ€“oligosaccharides, and oligofructose on faecal output: a double-blind, randomised, placebo-controlled, cross-over trial. Journal of Nutritional Science, 2014, 3, e49.	0.7	16
83	Nonceliac Gluten Sensitivity: What Is the Culprit?. Gastroenterology, 2018, 154, 471-473.	0.6	16
84	Chronodisruption by chronic jetlag impacts metabolic and gastrointestinal homeostasis in male mice. Acta Physiologica, 2021, 233, e13703.	1.8	16
85	Supplementation of oligofructose, but not sucralose, decreases highâ€fat diet induced body weight gain in mice independent of gustducinâ€mediated gut hormone release. Molecular Nutrition and Food Research, 2017, 61, 1600716.	1.5	14
86	A survey on the impact of the COVIDâ€19 pandemic on motility and functional investigations in Europe and considerations for recommencing activities in the early recovery phase. Neurogastroenterology and Motility, 2020, 32, e13926.	1.6	14
87	Codeine delays gastric emptying through inhibition of gastric motility as assessed with a novel diagnostic intragastric balloon catheter. Neurogastroenterology and Motility, 2020, 32, e13733.	1.6	13
88	Lactobacillus rhamnosus CNCM I-3690 decreases subjective academic stress in healthy adults: a randomized placebo-controlled trial. Gut Microbes, 2022, 14, 2031695.	4.3	13
89	The role of nutrient sensing in the metabolic changes after gastric bypass surgery. Journal of Endocrinology, 2017, 232, 363-376.	1.2	12
90	Dietary fibre and the gutâ€“brain axis: microbiota-dependent and independent mechanisms of action. Gut Microbiome, 2021, 2, .	0.8	12

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91	Time-Restricted Feeding in Mice Prevents the Disruption of the Peripheral Circadian Clocks and Its Metabolic Impact during Chronic Jetlag. Nutrients, 2021, 13, 3846.	1.7	12
92	Inflammationâ€Induced Downregulation of Butyrate Uptake and Oxidation Is Not Caused by a Reduced Gene Expression. Journal of Cellular Physiology, 2015, 230, 418-426.	2.0	9
93	Extruded Wheat Bran Consumption Increases Serum Short-Chain Fatty Acids but Does Not Modulate Psychobiological Functions in Healthy Men: A Randomized, Placebo-Controlled Trial. Frontiers in Nutrition, 2022, 9, .	1.6	9
94	Influence of resistant starch alone or combined with wheat bran on gastric emptying and protein digestion in healthy volunteers. Scandinavian Journal of Gastroenterology, 2007, 42, 1187-1193.	0.6	7
95	When the mind says one thing, but the HPA axis says another: Lack of coherence between subjective and neuroendocrine stress response trajectories in healthy men. Psychoneuroendocrinology, 2022, 139, 105692.	1.3	6
96	Synthesis, radio-LC-MS analysis and biological evaluation of99mTc-techmazenil. Journal of Labelled Compounds and Radiopharmaceuticals, 2004, 47, 199-208.	0.5	5
97	Wheat bran with reduced particle size increases serum SCFAs in obese subjects without improving health parameters compared with a maltodextrin placebo. American Journal of Clinical Nutrition, 2021, 114, 1328-1341.	2.2	5
98	Changes in kynurenine pathway metabolites after acute psychosocial stress in healthy males: a single-arm pilot study. Stress, 2021, 24, 920-930.	0.8	5
99	Effect of arabinoxylo-oligosaccharides on proximal gastrointestinal motility and digestion in healthy volunteers. European E-journal of Clinical Nutrition and Metabolism, 2008, 3, e220-e225.	0.4	4
100	Acotiamide affects antral motility, but has no effect on fundic motility, gastric emptying or symptom perception in healthy participants. Neurogastroenterology and Motility, 2019, 31, e13540.	1.6	4
101	Dietary assessment with the online platform MyFitnessPal: a reliable method?. Proceedings of the Nutrition Society, 2020, 79, .	0.4	4
102	Vasovagal reactions following venepuncture result in aberrant stress-induced cortisol levels. Psychoneuroendocrinology, 2021, 128, 105220.	1.3	4
103	T2026 A Dietary Intervention With Arabinoxylan Oligosaccharides Reduces Colonic Protein Fermentation in Healthy Subjects: Results From Faecal Metabolite Fingerprint Analysis. Gastroenterology, 2010, 138, S-616.	0.6	3
104	How Microbial Food Fermentation Supports a Tolerant Gut. Molecular Nutrition and Food Research, 2021, 65, 2000036.	1.5	3
105	Nourishing the gut microbiota: The potential of prebiotics in microbiota-gut-brain axis research. Behavioral and Brain Sciences, 2019, 42, .	0.4	3
106	Catestatin selects for colonization of antimicrobial-resistant gut bacterial communities. ISME Journal, 2022, 16, 1873-1882.	4.4	3
107	Premilling pearling for producing wheat fractions with distinct digestibility and fermentability. Cereal Chemistry, 2021, 98, 759-773.	1.1	2
108	Gut microbiota transplantation drives the adoptive transfer of colonic genotype-phenotype characteristics between mice lacking catestatin and their wild type counterparts. Gut Microbes, 2022, 14, .	4.3	2

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109	Response to â€˜Tacrolimus pharmacokinetics after kidney transplantation â€“ Influence of changes in haematocrit and steroid doseâ€™. British Journal of Clinical Pharmacology, 2015, 80, 1473-1474.	1.1	1
110	Combining dietary fibres to reduce intestinal gas production in patients with IBS. Gut, 2022, 71, 848-849.	6.1	1
111	Evaluation of short- and long-term effects of inulin on colonic urea-nitrogen-metabolism using 15N-lactose-ureide. Gastroenterology, 2003, 124, A687.	0.6	0
112	Mo1799 Increased Fecal Water Cytotoxicity in Patients With Ulcerative Colitis Is Associated With Low Levels of Short Chain Fatty Acids. Gastroenterology, 2015, 148, S-714.	0.6	0
113	Su1874 High and Standard Protein Weight Loss Diets Modulate Colonic Fermentation but Do Not Affect Fecal Water Toxicity. Gastroenterology, 2015, 148, S-540.	0.6	0
114	Mo1800 Colonic Luminal Compounds Do Not Affect Butyrate Metabolism in Ulcerative Colitis. Gastroenterology, 2015, 148, S-714.	0.6	0
115	Tu1836 Identification of DSG3, MAGI1 and TFF1 As Functionally Important Genes in Inflammatory Bowel Disease Pathogenesis. Gastroenterology, 2015, 148, S-915.	0.6	0
116	397 Colonic Derived Propionate As Substrate for Gluconeogenesis: An In Vivo Stable Isotope Study in Humans. Gastroenterology, 2015, 148, S-84.	0.6	0
117	Su1875 High Levels of Sulfate-Reducing Bacteria Predispose to Protein-Induced Fecal Water Genotoxicity. Gastroenterology, 2015, 148, S-540.	0.6	0
118	Sa1423 Correlation of Small Intestinal Permeability, Faecal Calprotectin and Barrier Genes in Multiple-Affected Families With Inflammatory Bowel Disease. Gastroenterology, 2016, 150, S311.	0.6	0
119	Profiling of the Fecal Microbiota and Metabolome in Patients with Inflammatory Bowel Disease and their Unaffected Relatives. Gastroenterology, 2017, 152, S991.	0.6	0
120	Effect of AXOS on fecal water cytotoxicity and genotoxicity: a randomized, doubleâ€blind, placeboâ€controlled, crossâ€over study. FASEB Journal, 2013, 27, 110.7.	0.2	0
121	Functional Aspects of Prebiotics and the Impact on Human Health. , 2015, , 13-26.		0
122	The Gut Microbiota Drives Metabolic Disorders Which Compromise Sociability in Alcoholic Patients. SSRN Electronic Journal, 0, , .	0.4	0
123	Reply to Erren et al. Chronodisruption: Origin, Roots, and Developments of an 18-Year-Old Concept. Comment on â€œDesmet et al. Time-Restricted Feeding in Mice Prevents the Disruption of the Peripheral Circadian Clocks and Its Metabolic Impact during Chronic Jetlag. Nutrients 2021, 13, 3846â€. Nutrients, 2022, 14, 316.	1.7	0