

Ilja C W Arts

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

117
papers

7,154
citations

42
h-index

83
g-index

120
ext. papers

7,891
ext. citations

5.7
avg, IF

5.87
L-index

#	Paper	IF	Citations
117	Comparison of metabolic states using genome-scale metabolic models. <i>PLoS Computational Biology</i> , 2021 , 17, e1009522	5	
116	C3 and alternative pathway components are associated with an adverse lipoprotein subclass profile: The CODAM study. <i>Journal of Clinical Lipidology</i> , 2021 , 15, 311-319	4.9	1
115	Personalized computational model quantifies heterogeneity in postprandial responses to oral glucose challenge. <i>PLoS Computational Biology</i> , 2021 , 17, e1008852	5	3
114	The Effect of Partly Replacing Vegetable Fat with Bovine Milk Fat in Infant Formula on Postprandial Lipid and Energy Metabolism: A Proof-of-principle Study in Healthy Young Male Adults. <i>Molecular Nutrition and Food Research</i> , 2021 , 65, e2000848	5.9	1
113	Assessing the Contribution of Relative Macrophage Frequencies to Subcutaneous Adipose Tissue. <i>Frontiers in Nutrition</i> , 2021 , 8, 675935	6.2	1
112	Combining HPAEC-PAD, PGC-LC-MS, and 1D H NMR to Investigate Metabolic Fates of Human Milk Oligosaccharides in 1-Month-Old Infants: a Pilot Study. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 6495-6509	5.7	6
111	Longitudinal associations of physical activity with plasma metabolites among colorectal cancer survivors up to 2 years after treatment. <i>Scientific Reports</i> , 2021 , 11, 13738	4.9	1
110	microViz: an R package for microbiome data visualization and statistics. <i>Journal of Open Source Software</i> , 2021 , 6, 3201	5.2	13
109	Metabolic profiling of tissue-specific insulin resistance in human obesity: results from the Diogenes study and the Maastricht Study. <i>International Journal of Obesity</i> , 2020 , 44, 1376-1386	5.5	15
108	Adipose tissue in health and disease through the lens of its building blocks. <i>Scientific Reports</i> , 2020 , 10, 10433	4.9	18
107	Stratifying cellular metabolism during weight loss: an interplay of metabolism, metabolic flexibility and inflammation. <i>Scientific Reports</i> , 2020 , 10, 1651	4.9	4
106	EFMviz: A COBRA Toolbox extension to visualize Elementary Flux Modes in Genome-Scale Metabolic Models. <i>Metabolites</i> , 2020 , 10,	5.6	1
105	Integration of epidemiologic, pharmacologic, genetic and gut microbiome data in a drug-metabolite atlas. <i>Nature Medicine</i> , 2020 , 26, 110-117	50.5	19
104	High-density lipoprotein cholesterol efflux capacity is not associated with atherosclerosis and prevalence of cardiovascular outcome: The CODAM study. <i>Journal of Clinical Lipidology</i> , 2020 , 14, 122-132	4.9	11
103	The Impact of Amino Acids on Postprandial Glucose and Insulin Kinetics in Humans: A Quantitative Overview. <i>Nutrients</i> , 2020 , 12,	6.7	1
102	Metabolomics Profile in Depression: A Pooled Analysis of 230 Metabolic Markers in 5283 Cases With Depression and 10,145 Controls. <i>Biological Psychiatry</i> , 2020 , 87, 409-418	7.9	51
101	Plasma Metabolomics Identifies Markers of Impaired Renal Function: A Meta-analysis of 3089 Persons with Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020 , 105,	5.6	11

100	Logical modelling reveals the PDC-PDK interaction as the regulatory switch driving metabolic flexibility at the cellular level. <i>Genes and Nutrition</i> , 2019 , 14, 27	4.3	5
99	Characterization of disease-specific cellular abundance profiles of chronic inflammatory skin conditions from deconvolution of biopsy samples. <i>BMC Medical Genomics</i> , 2019 , 12, 121	3.7	11
98	A computational model of postprandial adipose tissue lipid metabolism derived using human arteriovenous stable isotope tracer data. <i>PLoS Computational Biology</i> , 2019 , 15, e1007400	5	4
97	Correlating Infant Faecal Microbiota Composition and Human Milk Oligosaccharide Consumption by Microbiota of One-Month Old Breastfed Infants. <i>Molecular Nutrition and Food Research</i> , 2019 , 63, e1801214	5.4	48
96	Intestinal archaea inversely associated with childhood asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2019 , 143, 2305-2307	11.5	10
95	Large-scale plasma metabolome analysis reveals alterations in HDL metabolism in migraine. <i>Neurology</i> , 2019 , 92, e1899-e1911	6.5	26
94	The effect of prebiotic fortified infant formulas on microbiota composition and dynamics in early life. <i>Scientific Reports</i> , 2019 , 9, 2434	4.9	43
93	Improved quantification of muscle insulin sensitivity using oral glucose tolerance test data: the MISI Calculator. <i>Scientific Reports</i> , 2019 , 9, 9388	4.9	8
92	Subcutaneous Adipose Tissue and Systemic Inflammation Are Associated With Peripheral but Not Hepatic Insulin Resistance in Humans. <i>Diabetes</i> , 2019 , 68, 2247-2258	0.9	18
91	Impact of early events and lifestyle on the gut microbiota and metabolic phenotypes in young school-age children. <i>Microbiome</i> , 2019 , 7, 2	16.6	82
90	Plasma lipid profiling of tissue-specific insulin resistance in human obesity. <i>International Journal of Obesity</i> , 2019 , 43, 989-998	5.5	18
89	Prospective associations of dietary carbohydrate, fat, and protein intake with Ecell function in the CODAM study. <i>European Journal of Nutrition</i> , 2019 , 58, 597-608	5.2	5
88	Classical Pathway of Complement Activation: Longitudinal Associations of C1q and C1-INH With Cardiovascular Outcomes: The CODAM Study (Cohort on Diabetes and Atherosclerosis Maastricht)-Brief Report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 1242-1244	9.4	10
87	Medication adherence among patients with gout: A systematic review and meta-analysis. <i>Seminars in Arthritis and Rheumatism</i> , 2018 , 47, 689-702	5.3	72
86	Exploring the cellular network of metabolic flexibility in the adipose tissue. <i>Genes and Nutrition</i> , 2018 , 13, 17	4.3	7
85	Medication adherence among gout patients initiated allopurinol: a retrospective cohort study in the Clinical Practice Research Datalink (CPRD). <i>Rheumatology</i> , 2018 , 57, 1641-1650	3.9	19
84	Blood Metabolomic Measures Associate With Present and Future Glycemic Control in Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018 , 103, 4569-4579	5.6	18
83	Gut Microbiota and Body Weight in School-Aged Children: The KOALA Birth Cohort Study. <i>Obesity</i> , 2018 , 26, 1767-1776	8	18

82	Profiling Cellular Processes in Adipose Tissue during Weight Loss Using Time Series Gene Expression. <i>Genes</i> , 2018 , 9,	4.2	4
81	Uric acid and blood pressure: exploring the role of uric acid production in The Maastricht Study. <i>Journal of Hypertension</i> , 2017 , 35, 1968-1975	1.9	15
80	Associations of plasma uric acid and purine metabolites with blood pressure in children: the KOALA Birth Cohort Study. <i>Journal of Hypertension</i> , 2017 , 35, 982-993	1.9	12
79	A Comparative Study on the WCRF International/University of Bristol Methodology for Systematic Reviews of Mechanisms Underpinning Exposure-Cancer Associations. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2017 , 26, 1583-1594	4	5
78	Gut Colonization by Methanogenic Archaea Is Associated with Organic Dairy Consumption in Children. <i>Frontiers in Microbiology</i> , 2017 , 8, 355	5.7	35
77	Early Life Antibiotic Exposure and Weight Development in Children. <i>Journal of Pediatrics</i> , 2016 , 176, 1053-1061	13.3	1
76	Diabetes mellitus type 2 and subsite-specific colorectal cancer risk in men and women: results from the Netherlands Cohort Study on diet and cancer. <i>European Journal of Gastroenterology and Hepatology</i> , 2016 , 28, 896-903	2.2	27
75	The alternative complement pathway is longitudinally associated with adverse cardiovascular outcomes. The CODAM study. <i>Thrombosis and Haemostasis</i> , 2016 , 115, 446-57	7	23
74	Estimating real cell size distribution from cross-section microscopy imaging. <i>Bioinformatics</i> , 2016 , 32, i396-i404	7.2	16
73	Xanthine oxidase gene variants and their association with blood pressure and incident hypertension: a population study. <i>Journal of Hypertension</i> , 2016 , 34, 2147-54	1.9	21
72	Distinct Longitudinal Associations of MBL, MASP-1, MASP-2, MASP-3, and MASP-4 With Endothelial Dysfunction and Intima-Media Thickness: The Cohort on Diabetes and Atherosclerosis Maastricht (CODAM) Study. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 1278-85	9.4	13
71	Determinants of the prevalence of gout in the general population: a systematic review and meta-regression. <i>European Journal of Epidemiology</i> , 2015 , 30, 19-33	12.1	39
70	Dietary nucleotide and nucleoside exposure in infancy and atopic dermatitis, recurrent wheeze, and allergic sensitization. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2015 , 60, 691-3	2.8	
69	Gut colonization with methanobrevibacter smithii is associated with childhood weight development. <i>Obesity</i> , 2015 , 23, 2508-16	8	35
68	Association between serum uric acid, aortic, carotid and femoral stiffness among adults aged 40-75 years without and with type 2 diabetes mellitus: The Maastricht Study. <i>Journal of Hypertension</i> , 2015 , 33, 1642-50	1.9	13
67	Uric acid and skin microvascular function: the Maastricht study. <i>Journal of Hypertension</i> , 2015 , 33, 1651-7	1.9	5
66	The intestinal microbiota composition and weight development in children: the KOALA Birth Cohort Study. <i>International Journal of Obesity</i> , 2015 , 39, 16-25	5.5	85
65	Response to Keriell-Gascou et al.: higher efficiency and other alleged advantages are not inherent to the stepped wedge design. <i>Journal of Clinical Epidemiology</i> , 2014 , 67, 834-6	5.7	8

64	The cross-sectional association between uric acid and atherosclerosis and the role of low-grade inflammation: the CODAM study. <i>Rheumatology</i> , 2014 , 53, 2053-62	3.9	19
63	Distinct associations of complement C3a and its precursor C3 with atherosclerosis and cardiovascular disease. The CODAM study. <i>Thrombosis and Haemostasis</i> , 2014 , 111, 1102-11	7	36
62	Complement c3 is inversely associated with habitual intake of provitamin A but not with dietary fat, fatty acids, or vitamin E in middle-aged to older white adults and positively associated with intake of retinol in middle-aged to older white women. <i>Journal of Nutrition</i> , 2014 , 144, 61-7	4.1	7
61	Complement activation products C5a and sC5b-9 are associated with low-grade inflammation and endothelial dysfunction, but not with atherosclerosis in a cross-sectional analysis: the CODAM study. <i>International Journal of Cardiology</i> , 2014 , 174, 400-3	3.2	19
60	The stepped wedge design does not inherently have more power than a cluster randomized controlled trial. <i>Journal of Clinical Epidemiology</i> , 2013 , 66, 1059-60	5.7	17
59	Dietary flavonoid intake, black tea consumption, and risk of overall and advanced stage prostate cancer. <i>American Journal of Epidemiology</i> , 2013 , 177, 1388-98	3.8	70
58	New training tools for new epidemiologists. <i>Environmental and Molecular Mutagenesis</i> , 2013 , 54, 611-5	3.2	4
57	Dietary arginine and linear growth: the Copenhagen School Child Intervention Study. <i>British Journal of Nutrition</i> , 2013 , 109, 1031-9	3.6	7
56	Gastrointestinal symptoms in diabetes mellitus, and their relation to anxiety and depression. <i>Diabetes Research and Clinical Practice</i> , 2012 , 96, 248-55	7.4	20
55	The P2X(7) loss-of-function Glu496Ala polymorphism affects ex vivo cytokine release and protects against the cytotoxic effects of high ATP-levels. <i>BMC Immunology</i> , 2012 , 13, 64	3.7	23
54	Adenosine 5Triphosphate (ATP) supplements are not orally bioavailable: a randomized, placebo-controlled cross-over trial in healthy humans. <i>Journal of the International Society of Sports Nutrition</i> , 2012 , 9, 16	4.5	18
53	Use of the stepped wedge design cannot be recommended: a critical appraisal and comparison with the classic cluster randomized controlled trial design. <i>Journal of Clinical Epidemiology</i> , 2012 , 65, 1249-52	5.7	61
52	Researchers should convince policy makers to perform a classic cluster randomized controlled trial instead of a stepped wedge design when an intervention is rolled out. <i>Journal of Clinical Epidemiology</i> , 2012 , 65, 1255-6	5.7	22
51	Altered cigarette smoke-induced lung inflammation due to ablation of Grx1. <i>PLoS ONE</i> , 2012 , 7, e38984	3.7	18
50	Large epidemiologic studies of gout: challenges in diagnosis and diagnostic criteria. <i>Current Rheumatology Reports</i> , 2011 , 13, 167-74	4.9	13
49	Oral bioavailability of ATP after prolonged administration. <i>British Journal of Nutrition</i> , 2011 , 105, 357-66	3.6	21
48	Adenosine 5Triphosphate infusions reduced disease activity and inflammation in a patient with active rheumatoid arthritis. <i>Rheumatology</i> , 2010 , 49, 2223-5	3.9	8
47	How to review a manuscript. <i>Journal of Clinical Epidemiology</i> , 2010 , 63, 1385-90	5.7	16

46	Deconjugation kinetics of glucuronidated phase II flavonoid metabolites by beta-glucuronidase from neutrophils. <i>Drug Metabolism and Pharmacokinetics</i> , 2010 , 25, 379-87	2.2	44
45	Dietary flavonol, flavone and catechin intake and risk of colorectal cancer in the Netherlands Cohort Study. <i>International Journal of Cancer</i> , 2009 , 125, 2945-52	7.5	35
44	Some phenolic compounds increase the nitric oxide level in endothelial cells in vitro. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 7693-9	5.7	76
43	Plasma enterolignans are not associated with nonfatal myocardial infarction risk. <i>Atherosclerosis</i> , 2009 , 203, 145-52	3.1	16
42	Time-dependent effects of ATP and its degradation products on inflammatory markers in human blood ex vivo. <i>Immunobiology</i> , 2008 , 213, 389-97	3.4	12
41	A review of the epidemiological evidence on tea, flavonoids, and lung cancer. <i>Journal of Nutrition</i> , 2008 , 138, 1561S-1566S	4.1	88
40	Simultaneous determination of adenosine triphosphate and its metabolites in human whole blood by RP-HPLC and UV-detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008 , 864, 43-51	3.2	54
39	Plasma enterolignan concentrations and colorectal cancer risk in a nested case-control study. <i>American Journal of Epidemiology</i> , 2008 , 167, 734-42	3.8	14
38	Higher dietary flavone, flavonol, and catechin intakes are associated with less of an increase in BMI over time in women: a longitudinal analysis from the Netherlands Cohort Study. <i>American Journal of Clinical Nutrition</i> , 2008 , 88, 1341-52	7	71
37	Relation between plasma enterodiols and enterolactone and dietary intake of lignans in a Dutch endoscopy-based population. <i>Journal of Nutrition</i> , 2007 , 137, 1266-71	4.1	51
36	Atopy, wheeze and bronchial responsiveness in young Chilean adults. Do dietary antioxidants matter?. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2007 , 62, 714-5	9.3	15
35	Chronic quercetin exposure affects fatty acid catabolism in rat lung. <i>Cellular and Molecular Life Sciences</i> , 2006 , 63, 2847-58	10.3	50
34	SIRT1 stimulation by polyphenols is affected by their stability and metabolism. <i>Mechanisms of Ageing and Development</i> , 2006 , 127, 618-27	5.6	131
33	Plasma enterolignans are associated with lower colorectal adenoma risk. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2006 , 15, 1132-6	4	69
32	Intakes of 4 dietary lignans and cause-specific and all-cause mortality in the Zutphen Elderly Study. <i>American Journal of Clinical Nutrition</i> , 2006 , 84, 400-405	7	27
31	Intakes of 4 dietary lignans and cause-specific and all-cause mortality in the Zutphen Elderly Study. <i>American Journal of Clinical Nutrition</i> , 2006 , 84, 400-5	7	25
30	Lignan contents of Dutch plant foods: a database including lariciresinol, pinoresinol, secoisolariciresinol and matairesinol. <i>British Journal of Nutrition</i> , 2005 , 93, 393-402	3.6	347
29	Uptake and metabolism of enterolactone and enterodiols by human colon epithelial cells. <i>Archives of Biochemistry and Biophysics</i> , 2005 , 435, 74-82	4.1	55

28	Tissue distribution of quercetin in rats and pigs. <i>Journal of Nutrition</i> , 2005 , 135, 1718-25	4.1	340
27	Polyphenols and disease risk in epidemiologic studies. <i>American Journal of Clinical Nutrition</i> , 2005 , 81, 317S-325S	7	1262
26	A validated method for the quantification of enterodiol and enterolactone in plasma using isotope dilution liquid chromatography with tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005 , 822, 178-84	3.2	15
25	The relative bioavailability of enterolignans in humans is enhanced by milling and crushing of flaxseed. <i>Journal of Nutrition</i> , 2005 , 135, 2812-6	4.1	70
24	Intake of the plant lignans secoisolariciresinol, matairesinol, lariciresinol, and pinoresinol in Dutch men and women. <i>Journal of Nutrition</i> , 2005 , 135, 1202-7	4.1	110
23	Pharmacokinetics of enterolignans in healthy men and women consuming a single dose of secoisolariciresinol diglucoside. <i>Journal of Nutrition</i> , 2005 , 135, 795-801	4.1	103
22	Dietary intake of flavonoids and asthma in adults. <i>European Respiratory Journal</i> , 2005 , 26, 449-52	13.6	47
21	Breast cancer resistance protein (Bcrp1/Abcg2) limits net intestinal uptake of quercetin in rats by facilitating apical efflux of glucuronides. <i>Molecular Pharmacology</i> , 2005 , 67, 1999-2006	4.3	96
20	The type of sugar moiety is a major determinant of the small intestinal uptake and subsequent biliary excretion of dietary quercetin glycosides. <i>British Journal of Nutrition</i> , 2004 , 91, 841-7	3.6	170
19	Optimization of a liquid chromatography-tandem mass spectrometry method for quantification of the plant lignans secoisolariciresinol, matairesinol, lariciresinol, and pinoresinol in foods. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 4643-51	5.7	87
18	Intestinal uptake of quercetin-3-glucoside in rats involves hydrolysis by lactase phlorizin hydrolase. <i>Journal of Nutrition</i> , 2003 , 133, 773-6	4.1	65
17	Plant foods versus compounds in carcinogenesis; observational versus experimental human studies. <i>International Journal for Vitamin and Nutrition Research</i> , 2003 , 73, 70-8	1.7	2
16	Quercetin-3-glucoside is transported by the glucose carrier SGLT1 across the brush border membrane of rat small intestine. <i>Journal of Nutrition</i> , 2002 , 132, 2823; author reply 2824	4.1	17
15	Dietary catechins and cancer incidence among postmenopausal women: the Iowa Women's Health Study (United States). <i>Cancer Causes and Control</i> , 2002 , 13, 373-82	2.8	130
14	Catechin intake might explain the inverse relation between tea consumption and ischemic heart disease: the Zutphen Elderly Study. <i>American Journal of Clinical Nutrition</i> , 2001 , 74, 227-32	7	293
13	Dietary catechins and epithelial cancer incidence: the Zutphen elderly study. <i>International Journal of Cancer</i> , 2001 , 92, 298-302	7.5	105
12	Catechin intake and associated dietary and lifestyle factors in a representative sample of Dutch men and women. <i>European Journal of Clinical Nutrition</i> , 2001 , 55, 76-81	5.2	104
11	Chronic obstructive pulmonary disease and intake of catechins, flavonols, and flavones: the MORGEN Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001 , 164, 61-4	10.2	162

10	Dietary catechins in relation to coronary heart disease death among postmenopausal women. <i>Epidemiology</i> , 2001 , 12, 668-75	3.1	146
9	Flavonols, flavones and flavanols [nature, occurrence and dietary burden. <i>Journal of the Science of Food and Agriculture</i> , 2000 , 80, 1081-1093	4.3	390
8	Catechin contents of foods commonly consumed in The Netherlands. 1. Fruits, vegetables, staple foods, and processed foods. <i>Journal of Agricultural and Food Chemistry</i> , 2000 , 48, 1746-51	5.7	347
7	Catechin contents of foods commonly consumed in The Netherlands. 2. Tea, wine, fruit juices, and chocolate milk. <i>Journal of Agricultural and Food Chemistry</i> , 2000 , 48, 1752-7	5.7	257
6	Chocolate as a source of tea flavonoids. <i>Lancet, The</i> , 1999 , 354, 488	4.0	128
5	[18] Determination of tea catechins by reversed-phase high performance liquid chromatography. <i>Methods in Enzymology</i> , 1999 , 299, 202-206	1.7	4
4	Short-term effects of the flavour of drinks on ingestive behaviours in man. <i>Appetite</i> , 1998 , 31, 67-81	4.5	54
3	Optimization of a Quantitative Method for the Determination of Catechins in Fruits and Legumes. <i>Journal of Agricultural and Food Chemistry</i> , 1998 , 46, 5156-5162	5.7	55
2	Catch-up growth in children fed a macrobiotic diet in early childhood. <i>Journal of Nutrition</i> , 1996 , 126, 2977-83	4.1	28
1	Adipose tissue in health and disease through the lens of its building blocks		2