Ilja C W Arts

List of Publications by Citations

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	Polyphenols and disease risk in epidemiologic studies. *American Journal of Clinical Nutrition*, **2005**, 81, 317S-325S	7	1262
116	Flavonols, flavones and flavanols nature, occurrence and dietary burden. *Journal of the Science of Food and Agriculture*, **2000**, 80, 1081-1093	4.3	390
115	Lignan contents of Dutch plant foods: a database including lariciresinol, pinoresinol, secoisolariciresinol and matairesinol. *British Journal of Nutrition*, **2005**, 93, 393-402	3.6	347
114	Catechin contents of foods commonly consumed in The Netherlands. 1. Fruits, vegetables, staple foods, and processed foods. *Journal of Agricultural and Food Chemistry*, **2000**, 48, 1746-51	5.7	347
113	Tissue distribution of quercetin in rats and pigs. *Journal of Nutrition*, **2005**, 135, 1718-25	4.1	340
112	Catechin intake might explain the inverse relation between tea consumption and ischemic heart disease: the Zutphen Elderly Study. *American Journal of Clinical Nutrition*, **2001**, 74, 227-32	7	293
111	Catechin contents of foods commonly consumed in The Netherlands. 2. Tea, wine, fruit juices, and chocolate milk. *Journal of Agricultural and Food Chemistry*, **2000**, 48, 1752-7	5.7	257
110	The type of sugar moiety is a major determinant of the small intestinal uptake and subsequent biliary excretion of dietary quercetin glycosides. *British Journal of Nutrition*, **2004**, 91, 841-7	3.6	170
109	Chronic obstructive pulmonary disease and intake of catechins, flavonols, and flavones: the MORGEN Study. *American Journal of Respiratory and Critical Care Medicine*, **2001**, 164, 61-4	10.2	162
108	Dietary catechins in relation to coronary heart disease death among postmenopausal women. *Epidemiology*, **2001**, 12, 668-75	3.1	146
107	SIRT1 stimulation by polyphenols is affected by their stability and metabolism. *Mechanisms of Ageing and Development*, **2006**, 127, 618-27	5.6	131
106	Dietary catechins and cancer incidence among postmenopausal women: the Iowa Women's Health Study (United States). *Cancer Causes and Control*, **2002**, 13, 373-82	2.8	130
105	Chocolate as a source of tea flavonoids. *Lancet, The*, **1999**, 354, 488	40	128
104	Intake of the plant lignans secoisolariciresinol, matairesinol, lariciresinol, and pinoresinol in Dutch men and women. *Journal of Nutrition*, **2005**, 135, 1202-7	4.1	110
103	Dietary catechins and epithelial cancer incidence: the Zutphen elderly study. *International Journal of Cancer*, **2001**, 92, 298-302	7.5	105
102	Catechin intake and associated dietary and lifestyle factors in a representative sample of Dutch men and women. *European Journal of Clinical Nutrition*, **2001**, 55, 76-81	5.2	104
101	Pharmacokinetics of enterolignans in healthy men and women consuming a single dose of secoisolariciresinol diglucoside. *Journal of Nutrition*, **2005**, 135, 795-801	4.1	103

100	Breast cancer resistance protein (Bcrp1/Abcg2) limits net intestinal uptake of quercetin in rats by facilitating apical efflux of glucuronides. *Molecular Pharmacology*, **2005**, 67, 1999-2006	4.3	96
99	A review of the epidemiological evidence on tea, flavonoids, and lung cancer. *Journal of Nutrition*, **2008**, 138, 1561S-1566S	4.1	88
98	Optimization of a liquid chromatography-tandem mass spectrometry method for quantification of the plant lignans secoisolariciresinol, matairesinol, lariciresinol, and pinoresinol in foods. *Journal of Agricultural and Food Chemistry*, **2004**, 52, 4643-51	5.7	87
97	The intestinal microbiota composition and weight development in children: the KOALA Birth Cohort Study. *International Journal of Obesity*, **2015**, 39, 16-25	5.5	85
96	Impact of early events and lifestyle on the gut microbiota and metabolic phenotypes in young school-age children. *Microbiome*, **2019**, 7, 2	16.6	82
95	Some phenolic compounds increase the nitric oxide level in endothelial cells in vitro. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 7693-9	5.7	76
94	Medication adherence among patients with gout: A systematic review and meta-analysis. *Seminars in Arthritis and Rheumatism*, **2018**, 47, 689-702	5.3	72
93	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. *American Journal of Clinical Nutrition*, **2008**, 88, 1341-52	7	71
92	Dietary flavonoid intake, black tea consumption, and risk of overall and advanced stage prostate cancer. *American Journal of Epidemiology*, **2013**, 177, 1388-98	3.8	70
91	The relative bioavailability of enterolignans in humans is enhanced by milling and crushing of flaxseed. *Journal of Nutrition*, **2005**, 135, 2812-6	4.1	70
90	Plasma enterolignans are associated with lower colorectal adenoma risk. *Cancer Epidemiology Biomarkers and Prevention*, **2006**, 15, 1132-6	4	69
89	Intestinal uptake of quercetin-3-glucoside in rats involves hydrolysis by lactase phlorizin hydrolase. *Journal of Nutrition*, **2003**, 133, 773-6	4.1	65
88	Use of the stepped wedge design cannot be recommended: a critical appraisal and comparison with the classic cluster randomized controlled trial design. *Journal of Clinical Epidemiology*, **2012**, 65, 1249-52	5.7	61
87	Uptake and metabolism of enterolactone and enterodiol by human colon epithelial cells. *Archives of Biochemistry and Biophysics*, **2005**, 435, 74-82	4.1	55
86	Optimization of a Quantitative Method for the Determination of Catechins in Fruits and Legumes. *Journal of Agricultural and Food Chemistry*, **1998**, 46, 5156-5162	5.7	55
85	Simultaneous determination of adenosine triphosphate and its metabolites in human whole blood by RP-HPLC and UV-detection. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2008**, 864, 43-51	3.2	54
84	Short-term effects of the flavour of drinks on ingestive behaviours in man. *Appetite*, **1998**, 31, 67-81	4.5	54
83	Early Life Antibiotic Exposure and Weight Development in Children. *Journal of Pediatrics*, **2016**, 176, 105-113.e2	3.6	51

82	Relation between plasma enterodiol and enterolactone and dietary intake of lignans in a Dutch endoscopy-based population. *Journal of Nutrition*, **2007**, 137, 1266-71	4.1	51
81	Metabolomics Profile in Depression: A Pooled Analysis of 230 Metabolic Markers in 5283 Cases With Depression and 10,145 Controls. *Biological Psychiatry*, **2020**, 87, 409-418	7.9	51
80	Chronic quercetin exposure affects fatty acid catabolism in rat lung. *Cellular and Molecular Life Sciences*, **2006**, 63, 2847-58	10.3	50
79	Correlating Infant Faecal Microbiota Composition and Human Milk Oligosaccharide Consumption by Microbiota of One-Month Old Breastfed Infants. *Molecular Nutrition and Food Research*, **2019**, 63, e1801214	5.9	48
78	Dietary intake of flavonoids and asthma in adults. *European Respiratory Journal*, **2005**, 26, 449-52	13.6	47
77	Deconjugation kinetics of glucuronidated phase II flavonoid metabolites by beta-glucuronidase from neutrophils. *Drug Metabolism and Pharmacokinetics*, **2010**, 25, 379-87	2.2	44
76	The effect of prebiotic fortified infant formulas on microbiota composition and dynamics in early life. *Scientific Reports*, **2019**, 9, 2434	4.9	43
75	Determinants of the prevalence of gout in the general population: a systematic review and meta-regression. *European Journal of Epidemiology*, **2015**, 30, 19-33	12.1	39
74	Distinct associations of complement C3a and its precursor C3 with atherosclerosis and cardiovascular disease. The CODAM study. *Thrombosis and Haemostasis*, **2014**, 111, 1102-11	7	36
73	Gut Colonization by Methanogenic Archaea Is Associated with Organic Dairy Consumption in Children. *Frontiers in Microbiology*, **2017**, 8, 355	5.7	35
72	Gut colonization with methanobrevibacter smithii is associated with childhood weight development. *Obesity*, **2015**, 23, 2508-16	8	35
71	Dietary flavonol, flavone and catechin intake and risk of colorectal cancer in the Netherlands Cohort Study. *International Journal of Cancer*, **2009**, 125, 2945-52	7.5	35
70	Catch-up growth in children fed a macrobiotic diet in early childhood. *Journal of Nutrition*, **1996**, 126, 2977-83	4.1	28
69	Diabetes mellitus type 2 and subsite-specific colorectal cancer risk in men and women: results from the Netherlands Cohort Study on diet and cancer. *European Journal of Gastroenterology and Hepatology*, **2016**, 28, 896-903	2.2	27
68	Intakes of 4 dietary lignans and cause-specific and all-cause mortality in the Zutphen Elderly Study. *American Journal of Clinical Nutrition*, **2006**, 84, 400-405	7	27
67	Large-scale plasma metabolome analysis reveals alterations in HDL metabolism in migraine. *Neurology*, **2019**, 92, e1899-e1911	6.5	26
66	Intakes of 4 dietary lignans and cause-specific and all-cause mortality in the Zutphen Elderly Study. *American Journal of Clinical Nutrition*, **2006**, 84, 400-5	7	25
65	The P2X(7) loss-of-function Glu496Ala polymorphism affects ex vivo cytokine release and protects against the cytotoxic effects of high ATP-levels. *BMC Immunology*, **2012**, 13, 64	3.7	23

64	The alternative complement pathway is longitudinally associated with adverse cardiovascular outcomes. The CODAM study. *Thrombosis and Haemostasis*, **2016**, 115, 446-57	7	23
63	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. *Journal of Clinical Epidemiology*, **2012**, 65, 1255-6	5.7	22
62	Oral bioavailability of ATP after prolonged administration. *British Journal of Nutrition*, **2011**, 105, 357-66	3.6	21
61	Xanthine oxidase gene variants and their association with blood pressure and incident hypertension: a population study. *Journal of Hypertension*, **2016**, 34, 2147-54	1.9	21
60	Gastrointestinal symptoms in diabetes mellitus, and their relation to anxiety and depression. *Diabetes Research and Clinical Practice*, **2012**, 96, 248-55	7.4	20
59	Integration of epidemiologic, pharmacologic, genetic and gut microbiome data in a drug-metabolite atlas. *Nature Medicine*, **2020**, 26, 110-117	50.5	19
58	Medication adherence among gout patients initiated allopurinol: a retrospective cohort study in the Clinical Practice Research Datalink (CPRD). *Rheumatology*, **2018**, 57, 1641-1650	3.9	19
57	The cross-sectional association between uric acid and atherosclerosis and the role of low-grade inflammation: the CODAM study. *Rheumatology*, **2014**, 53, 2053-62	3.9	19
56	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. *International Journal of Cardiology*, **2014**, 174, 400-3	3.2	19
55	Adipose tissue in health and disease through the lens of its building blocks. *Scientific Reports*, **2020**, 10, 10433	4.9	18
54	Adenosine 5Striphosphate (ATP) supplements are not orally bioavailable: a randomized, placebo-controlled cross-over trial in healthy humans. *Journal of the International Society of Sports Nutrition*, **2012**, 9, 16	4.5	18
53	Altered cigarette smoke-induced lung inflammation due to ablation of Grx1. *PLoS ONE*, **2012**, 7, e38984	3.7	18
52	Subcutaneous Adipose Tissue and Systemic Inflammation Are Associated With Peripheral but Not Hepatic Insulin Resistance in Humans. *Diabetes*, **2019**, 68, 2247-2258	0.9	18
51	Plasma lipid profiling of tissue-specific insulin resistance in human obesity. *International Journal of Obesity*, **2019**, 43, 989-998	5.5	18
50	Blood Metabolomic Measures Associate With Present and Future Glycemic Control in Type 2 Diabetes. *Journal of Clinical Endocrinology and Metabolism*, **2018**, 103, 4569-4579	5.6	18
49	Gut Microbiota and Body Weight in School-Aged Children: The KOALA Birth Cohort Study. *Obesity*, **2018**, 26, 1767-1776	8	18
48	The stepped wedge design does not inherently have more power than a cluster randomized controlled trial. *Journal of Clinical Epidemiology*, **2013**, 66, 1059-60	5.7	17
47	Quercetin-3-glucoside is transported by the glucose carrier SGLT1 across the brush border membrane of rat small intestine. *Journal of Nutrition*, **2002**, 132, 2823; author reply 2824	4.1	17

46	How to review a manuscript. *Journal of Clinical Epidemiology*, **2010**, 63, 1385-90	5.7	16
45	Plasma enterolignans are not associated with nonfatal myocardial infarction risk. *Atherosclerosis*, **2009**, 203, 145-52	3.1	16
44	Estimating real cell size distribution from cross-section microscopy imaging. *Bioinformatics*, **2016**, 32, i396-i404	7.2	16
43	Uric acid and blood pressure: exploring the role of uric acid production in The Maastricht Study. *Journal of Hypertension*, **2017**, 35, 1968-1975	1.9	15
42	Metabolic profiling of tissue-specific insulin resistance in human obesity: results from the Diogenes study and the Maastricht Study. *International Journal of Obesity*, **2020**, 44, 1376-1386	5.5	15
41	Atopy, wheeze and bronchial responsiveness in young Chilean adults. Do dietary antioxidants matter?. *Allergy: European Journal of Allergy and Clinical Immunology*, **2007**, 62, 714-5	9.3	15
40	A validated method for the quantification of enterodiol and enterolactone in plasma using isotope dilution liquid chromatography with tandem mass spectrometry. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2005**, 822, 178-84	3.2	15
39	Plasma enterolignan concentrations and colorectal cancer risk in a nested case-control study. *American Journal of Epidemiology*, **2008**, 167, 734-42	3.8	14
38	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. *Journal of Hypertension*, **2015**, 33, 1642-50	1.9	13
37	Large epidemiologic studies of gout: challenges in diagnosis and diagnostic criteria. *Current Rheumatology Reports*, **2011**, 13, 167-74	4.9	13
36	Distinct Longitudinal Associations of MBL, MASP-1, MASP-2, MASP-3, and MAp44 With Endothelial Dysfunction and Intima-Media Thickness: The Cohort on Diabetes and Atherosclerosis Maastricht (CODAM) Study. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, 1278-85	9.4	13
35	microViz: an R package for microbiome data visualization and statistics. *Journal of Open Source Software*, **2021**, 6, 3201	5.2	13
34	Associations of plasma uric acid and purine metabolites with blood pressure in children: the KOALA Birth Cohort Study. *Journal of Hypertension*, **2017**, 35, 982-993	1.9	12
33	Time-dependent effects of ATP and its degradation products on inflammatory markers in human blood ex vivo. *Immunobiology*, **2008**, 213, 389-97	3.4	12
32	Characterization of disease-specific cellular abundance profiles of chronic inflammatory skin conditions from deconvolution of biopsy samples. *BMC Medical Genomics*, **2019**, 12, 121	3.7	11
31	High-density lipoprotein cholesterol efflux capacity is not associated with atherosclerosis and prevalence of cardiovascular outcome: The CODAM study. *Journal of Clinical Lipidology*, **2020**, 14, 122-132.e4	4.9	11
30	Plasma Metabolomics Identifies Markers of Impaired Renal Function: A Meta-analysis of 3089 Persons with Type 2 Diabetes. *Journal of Clinical Endocrinology and Metabolism*, **2020**, 105,	5.6	11
29	Intestinal archaea inversely associated with childhood asthma. *Journal of Allergy and Clinical Immunology*, **2019**, 143, 2305-2307	11.5	10

28	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. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 1242-1244	9.4	10
27	Improved quantification of muscle insulin sensitivity using oral glucose tolerance test data: the MISI Calculator. *Scientific Reports*, **2019**, 9, 9388	4.9	8
26	Response to Keriel-Gascou et al.: higher efficiency and other alleged advantages are not inherent to the stepped wedge design. *Journal of Clinical Epidemiology*, **2014**, 67, 834-6	5.7	8
25	Adenosine 5Striphosphate infusions reduced disease activity and inflammation in a patient with active rheumatoid arthritis. *Rheumatology*, **2010**, 49, 2223-5	3.9	8
24	Exploring the cellular network of metabolic flexibility in the adipose tissue. *Genes and Nutrition*, **2018**, 13, 17	4.3	7
23	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. *Journal of Nutrition*, **2014**, 144, 61-7	4.1	7
22	Dietary arginine and linear growth: the Copenhagen School Child Intervention Study. *British Journal of Nutrition*, **2013**, 109, 1031-9	3.6	7
21	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. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 6495-6509	5.7	6
20	Logical modelling reveals the PDC-PDK interaction as the regulatory switch driving metabolic flexibility at the cellular level. *Genes and Nutrition*, **2019**, 14, 27	4.3	5
19	A Comparative Study on the WCRF International/University of Bristol Methodology for Systematic Reviews of Mechanisms Underpinning Exposure-Cancer Associations. *Cancer Epidemiology Biomarkers and Prevention*, **2017**, 26, 1583-1594	4	5
18	Uric acid and skin microvascular function: the Maastricht study. *Journal of Hypertension*, **2015**, 33, 1651-7	1.9	5
17	Prospective associations of dietary carbohydrate, fat, and protein intake with □cell function in the CODAM study. *European Journal of Nutrition*, **2019**, 58, 597-608	5.2	5
16	A computational model of postprandial adipose tissue lipid metabolism derived using human arteriovenous stable isotope tracer data. *PLoS Computational Biology*, **2019**, 15, e1007400	5	4
15	Stratifying cellular metabolism during weight loss: an interplay of metabolism, metabolic flexibility and inflammation. *Scientific Reports*, **2020**, 10, 1651	4.9	4
14	New training tools for new epidemiologists. *Environmental and Molecular Mutagenesis*, **2013**, 54, 611-5	3.2	4
13	[18] Determination of tea catechins by reversed-phase high performance liquid chromatography. *Methods in Enzymology*, **1999**, 299, 202-206	1.7	4
12	Profiling Cellular Processes in Adipose Tissue during Weight Loss Using Time Series Gene Expression. *Genes*, **2018**, 9,	4.2	4
11	Personalized computational model quantifies heterogeneity in postprandial responses to oral glucose challenge. *PLoS Computational Biology*, **2021**, 17, e1008852	5	3

10	Plant foods versus compounds in carcinogenesis; observational versus experimental human studies. *International Journal for Vitamin and Nutrition Research*, **2003**, 73, 70-8	1.7	2
9	Adipose tissue in health and disease through the lens of its building blocks		2
8	EFMviz: A COBRA Toolbox extension to visualize Elementary Flux Modes in Genome-Scale Metabolic Models. *Metabolites*, **2020**, 10,	5.6	1
7	The Impact of Amino Acids on Postprandial Glucose and Insulin Kinetics in Humans: A Quantitative Overview. *Nutrients*, **2020**, 12,	6.7	1
6	C3 and alternative pathway components are associated with an adverse lipoprotein subclass profile: The CODAM study. *Journal of Clinical Lipidology*, **2021**, 15, 311-319	4.9	1
5	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. *Molecular Nutrition and Food Research*, **2021**, 65, e2000848	5.9	1
4	Assessing the Contribution of Relative Macrophage Frequencies to Subcutaneous Adipose Tissue. *Frontiers in Nutrition*, **2021**, 8, 675935	6.2	1
3	Longitudinal associations of physical activity with plasma metabolites among colorectal cancer survivors up to 2 years after treatment. *Scientific Reports*, **2021**, 11, 13738	4.9	1
2	Dietary nucleotide and nucleoside exposure in infancy and atopic dermatitis, recurrent wheeze, and allergic sensitization. *Journal of Pediatric Gastroenterology and Nutrition*, **2015**, 60, 691-3	2.8	
1	Comparison of metabolic states using genome-scale metabolic models. *PLoS Computational Biology* , **2021**, 17, e1009522	5	