

# Ruud Verkerk

## List of Publications by Citations

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95  
papers

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31  
h-index

57  
g-index

95  
ext. papers

3,951  
ext. citations

6.3  
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5.29  
L-index

#	Paper	IF	Citations
95	Glucosinolates in Brassica vegetables: the influence of the food supply chain on intake, bioavailability and human health. <i>Molecular Nutrition and Food Research</i> , <b>2009</b> , 53 Suppl 2, S219	5.9	419
94	The nutritional significance, biosynthesis and bioavailability of glucosinolates in human foods <b>2000</b> , 80, 967-984		326
93	Thermal degradation of glucosinolates in red cabbage. <i>Food Chemistry</i> , <b>2006</b> , 95, 19-29	8.5	184
92	Post-harvest increase of indolyl glucosinolates in response to chopping and storage of Brassica vegetables. <i>Journal of the Science of Food and Agriculture</i> , <b>2001</b> , 81, 953-958	4.3	150
91	Glucosinolates and myrosinase activity in red cabbage ( <i>Brassica oleracea</i> L. var. <i>Capitata</i> f. <i>rubra</i> DC.) after various microwave treatments. <i>Journal of Agricultural and Food Chemistry</i> , <b>2004</b> , 52, 7318-23	5.7	145
90	Mapping strategy for resistance genes in tomato based on RFLPs between cultivars: Cf9 (resistance to <i>Cladosporium fulvum</i> ) on chromosome 1. <i>Theoretical and Applied Genetics</i> , <b>1992</b> , 84, 106-12	6	144
89	RFLP markers linked to the root knot nematode resistance gene Mi in tomato. <i>Theoretical and Applied Genetics</i> , <b>1991</b> , 81, 661-7	6	89
88	Predictive modelling of health aspects in the food production chain: a case study on glucosinolates in cabbage. <i>Trends in Food Science and Technology</i> , <b>2000</b> , 11, 174-181	15.3	86
87	Chemoprevention of 2-amino-3-methylimidazo[4,5-f]quinoline (IQ)-induced colonic and hepatic preneoplastic lesions in the F344 rat by cruciferous vegetables administered simultaneously with the carcinogen. <i>Carcinogenesis</i> , <b>2003</b> , 24, 255-61	4.6	71
86	Characterization and mapping of a gene controlling shoot regeneration in tomato. <i>Plant Journal</i> , <b>1993</b> , 3, 131-141	6.9	70
85	Consumer-driven food product development. <i>Trends in Food Science and Technology</i> , <b>2006</b> , 17, 184-190	15.3	69
84	A mechanistic perspective on process-induced changes in glucosinolate content in Brassica vegetables: a review. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2015</b> , 55, 823-38	11.5	68
83	Quantitative trait loci for glucosinolate accumulation in <i>Brassica rapa</i> leaves. <i>New Phytologist</i> , <b>2008</b> , 179, 1017-1032	9.8	62
82	Mapping of QTLs for glandular trichome densities and <i>Trialeurodes vaporariorum</i> (greenhouse whitefly) resistance in an F2 from <i>Lycopersicon esculentum</i> × <i>Lycopersicon hirsutum</i> f. <i>glabratum</i> . <i>Heredity</i> , <b>1995</b> , 75, 425-433	3.6	61
81	Optimizing isothiocyanate formation during enzymatic glucosinolate breakdown by adjusting pH value, temperature and dilution in Brassica vegetables and <i>Arabidopsis thaliana</i> . <i>Scientific Reports</i> , <b>2017</b> , 7, 40807	4.9	58
80	Localization of genes for bacterial canker resistance in <i>Lycopersicon peruvianum</i> using RFLPs. <i>Theoretical and Applied Genetics</i> , <b>1995</b> , 90, 444-50	6	56
79	Evaluation of different cooking conditions on broccoli ( <i>Brassica oleracea</i> var. <i>italica</i> ) to improve the nutritional value and consumer acceptance. <i>Plant Foods for Human Nutrition</i> , <b>2014</b> , 69, 228-34	3.9	55

78	Dealing with variability in food production chains: a tool to enhance the sensitivity of epidemiological studies on phytochemicals. <i>European Journal of Nutrition</i> , <b>2003</b> , 42, 67-72	5.2	49
77	Effect of water content and temperature on glucosinolate degradation kinetics in broccoli ( <i>Brassica oleracea</i> var. <i>italica</i> ). <i>Food Chemistry</i> , <b>2012</b> , 132, 2037-2045	8.5	48
76	An improved method of partially digesting plant megabase DNA suitable for YAC cloning: application to the construction of a 5.5 genome equivalent YAC library of tomato. <i>Plant Journal</i> , <b>1996</b> , 9, 125-33	6.9	48
75	The mapping of phytochrome genes and photomorphogenic mutants of tomato. <i>Theoretical and Applied Genetics</i> , <b>1997</b> , 94, 115-22	6	47
74	Health-promoting compounds in cape gooseberry ( <i>Physalis peruviana</i> L.): Review from a supply chain perspective. <i>Trends in Food Science and Technology</i> , <b>2016</b> , 57, 83-92	15.3	47
73	Isothiocyanates from Brassica Vegetables-Effects of Processing, Cooking, Mastication, and Digestion. <i>Molecular Nutrition and Food Research</i> , <b>2018</b> , 62, e1701069	5.9	45
72	Differences in Thermal Stability of Glucosinolates in Five Brassica Vegetables. <i>Czech Journal of Food Sciences</i> , <b>2009</b> , 27, S85-S88	1.3	44
71	The effect of pulsed electric fields on carotenoids bioaccessibility: The role of tomato matrix. <i>Food Chemistry</i> , <b>2018</b> , 240, 415-421	8.5	42
70	Effects of processing conditions on glucosinolates in cruciferous vegetables. <i>Cancer Letters</i> , <b>1997</b> , 114, 193-4	9.9	42
69	An RFLP linkage map of <i>Lycopersicon peruvianum</i> . <i>Theoretical and Applied Genetics</i> , <b>1994</b> , 89, 1007-13	6	42
68	Acid phosphatase-1(1), a tightly linked molecular marker for root-knot nematode resistance in tomato: from protein to gene, using PCR and degenerate primers containing deoxyinosine. <i>Plant Molecular Biology</i> , <b>1991</b> , 16, 647-61	4.6	38
67	In vivo formation and bioavailability of isothiocyanates from glucosinolates in broccoli as affected by processing conditions. <i>Molecular Nutrition and Food Research</i> , <b>2014</b> , 58, 1447-56	5.9	37
66	Effect of boiling on the content of ascorbigen, indole-3-carbinol, indole-3-acetonitrile, and 3,3'-diindolylmethane in fermented cabbage. <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 2334-8	5.7	37
65	Interaction of bread and berry polyphenols affects starch digestibility and polyphenols bio-accessibility. <i>Journal of Functional Foods</i> , <b>2020</b> , 68, 103924	5.1	32
64	Effect of water content and temperature on inactivation kinetics of myrosinase in broccoli ( <i>Brassica oleracea</i> var. <i>italica</i> ). <i>Food Chemistry</i> , <b>2014</b> , 163, 197-201	8.5	31
63	Protective effects of Brussels sprouts towards B[a]P-induced DNA damage: a model study with the single-cell gel electrophoresis (SCGE)/Hep G2 assay. <i>Food and Chemical Toxicology</i> , <b>2002</b> , 40, 1077-83	4.7	31
62	Modelling the fate of glucosinolates during thermal processing of Brassica vegetables. <i>LWT - Food Science and Technology</i> , <b>2012</b> , 49, 178-183	5.4	30
61	Local processing and nutritional composition of indigenous fruits: The case of monkey orange ( <i>Strychnos</i> spp.) from Southern Africa. <i>Food Reviews International</i> , <b>2017</b> , 33, 123-142	5.5	29

60	Kinetics of changes in glucosinolate concentrations during long-term cooking of white cabbage ( <i>Brassica oleracea</i> L. ssp. <i>capitata</i> f. <i>alba</i> ). <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 2068-73	5.7	29
59	An improved, rapid in vitro method to measure antioxidant activity. Application On selected flavonoids and apple juice. <i>Journal of Agricultural and Food Chemistry</i> , <b>2000</b> , 48, 4116-22	5.7	29
58	Food as Pharma? The Case of Glucosinolates. <i>Current Pharmaceutical Design</i> , <b>2017</b> , 23, 2697-2721	3.3	28
57	Rapid estimation of glucosinolate thermal degradation rate constants in leaves of Chinese kale and broccoli ( <i>Brassica oleracea</i> ) in two seasons. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 7859-65	5.7	26
56	Impacts of thermal and non-thermal processing on structure and functionality of pectin in fruit- and vegetable- based products: A review. <i>Carbohydrate Polymers</i> , <b>2020</b> , 250, 116890	10.3	26
55	Glucosinolate content of blanched cabbage ( <i>Brassica oleracea</i> var. <i>capitata</i> ) fermented by the probiotic strain <i>Lactobacillus paracasei</i> LMG-P22043. <i>Food Research International</i> , <b>2013</b> , 54, 706-710	7	25
54	Osmotic dehydration of mango: Effect of vacuum impregnation, high pressure, pectin methylesterase and ripeness on quality. <i>LWT - Food Science and Technology</i> , <b>2018</b> , 98, 179-186	5.4	24
53	Kinetics of thermal degradation of vitamin C in marula fruit ( <i>Sclerocarya birrea</i> subsp. <i>caffra</i> ) as compared to other selected tropical fruits. <i>LWT - Food Science and Technology</i> , <b>2012</b> , 49, 188-191	5.4	24
52	Perspectives of molecular marker assisted breeding for earliness in tomato. <i>Euphytica</i> , <b>1994</b> , 79, 279-286	2.1	24
51	A metabolomics approach to identify factors influencing glucosinolate thermal degradation rates in Brassica vegetables. <i>Food Chemistry</i> , <b>2014</b> , 155, 287-97	8.5	23
50	Thermal stability of phytochemicals, HMF and antioxidant activity in cape gooseberry ( <i>Physalis peruviana</i> L.). <i>Journal of Functional Foods</i> , <b>2017</b> , 32, 46-57	5.1	22
49	Comparison of the degradation and leaching kinetics of glucosinolates during processing of four Brassicaceae (broccoli, red cabbage, white cabbage, Brussels sprouts). <i>Innovative Food Science and Emerging Technologies</i> , <b>2014</b> , 25, 58-66	6.8	21
48	Overexpression of the MYB29 transcription factor affects aliphatic glucosinolate synthesis in <i>Brassica oleracea</i> . <i>Plant Molecular Biology</i> , <b>2019</b> , 101, 65-79	4.6	19
47	Studying consumer behaviour related to the quality of food: A case on vegetable preparation affecting sensory and health attributes. <i>Trends in Food Science and Technology</i> , <b>2013</b> , 33, 139-145	15.3	19
46	Improvement of traditional processing of local monkey orange ( <i>Strychnos</i> spp.) fruits to enhance nutrition security in Zimbabwe. <i>Food Security</i> , <b>2017</b> , 9, 621-633	6.7	19
45	Effect of Vacuum Frying on Quality Attributes of Fruits. <i>Food Engineering Reviews</i> , <b>2018</b> , 10, 154-164	6.5	17
44	Evaluating the effect of storage conditions on the shelf life of cape gooseberry ( <i>Physalis peruviana</i> L.). <i>LWT - Food Science and Technology</i> , <b>2017</b> , 80, 523-530	5.4	15
43	Stir-Frying of Chinese Cabbage and Pakchoi Retains Health-Promoting Glucosinolates. <i>Plant Foods for Human Nutrition</i> , <b>2017</b> , 72, 439-444	3.9	15

42	Modelling the level of the major glucosinolates in broccoli as affected by controlled atmosphere and temperature. <i>Postharvest Biology and Technology</i> , <b>2009</b> , 53, 1-10	6.2	15
41	The kinetic of key phytochemical compounds of non-heading and heading leafy Brassica oleracea landraces as affected by traditional cooking methods. <i>Journal of the Science of Food and Agriculture</i> , <b>2016</b> , 96, 4772-4784	4.3	15
40	Analysing the antioxidant activity of food products: processing and matrix effects. <i>Toxicology in Vitro</i> , <b>1999</b> , 13, 797-9	3.6	14
39	Tea polyphenols as a strategy to control starch digestion in bread: the effects of polyphenol type and gluten. <i>Food and Function</i> , <b>2020</b> , 11, 5933-5943	6.1	13
38	Pitfalls in the desulphation of glucosinolates in a high-throughput assay. <i>Food Chemistry</i> , <b>2012</b> , 134, 2355-61	5.1	13
37	The state of the art of food ingredients naturalness evaluation: A review of proposed approaches and their relation with consumer trends. <i>Trends in Food Science and Technology</i> , <b>2020</b> , 106, 434-444	15.3	13
36	Bioavailability of Isothiocyanates From Broccoli Sprouts in Protein, Lipid, and Fiber Gels. <i>Molecular Nutrition and Food Research</i> , <b>2018</b> , 62, e1700837	5.9	12
35	Quantitative trait loci analysis of non-enzymatic glucosinolate degradation rates in Brassica oleracea during food processing. <i>Theoretical and Applied Genetics</i> , <b>2013</b> , 126, 2323-34	6	12
34	Sensory and health properties of steamed and boiled carrots ( <i>Daucus carota</i> ssp. <i>sativus</i> ). <i>International Journal of Food Sciences and Nutrition</i> , <b>2014</b> , 65, 809-15	3.7	11
33	Liposome-mediated transfer of YAC DNA to tobacco cells. <i>Plant Molecular Biology Reporter</i> , <b>1997</b> , 15, 170-178	1.7	11
32	Retention of glucosinolates during fermentation of Brassica juncea: a case study on production of sayur asin. <i>European Food Research and Technology</i> , <b>2015</b> , 240, 559-565	3.4	10
31	A research approach for quality based design of healthy foods: Dried broccoli as a case study. <i>Trends in Food Science and Technology</i> , <b>2013</b> , 30, 178-184	15.3	10
30	Modelling the kinetics of osmotic dehydration of mango: Optimizing process conditions and pre-treatment for health aspects. <i>Journal of Food Engineering</i> , <b>2020</b> , 280, 109985	6	9
29	Biofumigation using a wild Brassica oleracea accession with high glucosinolate content affects beneficial soil invertebrates. <i>Plant and Soil</i> , <b>2015</b> , 394, 155-163	4.2	9
28	A review of the proximate composition and nutritional value of Marula ( <i>Sclerocarya birrea</i> subsp. <i>caffra</i> ). <i>Phytochemistry Reviews</i> , <b>2014</b> , 13, 881-892	7.7	9
27	Food science meets plant science: A case study on improved nutritional quality by breeding for glucosinolate retention during food processing. <i>Trends in Food Science and Technology</i> , <b>2014</b> , 35, 61-68	15.3	8
26	The effect of temperature and time on the quality of naturally fermented marula ( <i>Sclerocarya birrea</i> subsp. <i>Caffra</i> ) juice. <i>LWT - Food Science and Technology</i> , <b>2013</b> , 53, 70-75	5.4	7
25	The pivotal role of moisture content in the kinetic modelling of the quality attributes of vacuum fried chips. <i>Innovative Food Science and Emerging Technologies</i> , <b>2020</b> , 59, 102251	6.8	7

24	Exploration of heritage food concept. <i>Trends in Food Science and Technology</i> , <b>2021</b> , 111, 790-797	15.3	7
23	Exploring consumers' health perception across cultures in the early stages of new product development. <i>British Food Journal</i> , <b>2019</b> , 121, 2116-2131	2.8	7
22	Reply to "Dietary glucosinolates and risk of type 2 diabetes in 3 prospective cohort studies". <i>American Journal of Clinical Nutrition</i> , <b>2018</b> , 108, 425	7	6
21	Predictive modelling of vegetable firmness after thermal pre-treatments and steaming. <i>Innovative Food Science and Emerging Technologies</i> , <b>2014</b> , 25, 14-18	6.8	6
20	Consumer preference for dried mango attributes: A conjoint study among Dutch, Chinese, and Indonesian consumers. <i>Journal of Food Science</i> , <b>2020</b> , 85, 3527-3535	3.4	6
19	Nutritional and Physicochemical Quality of Vacuum-Fried Mango Chips Is Affected by Ripening Stage, Frying Temperature, and Time. <i>Frontiers in Nutrition</i> , <b>2020</b> , 7, 95	6.2	6
18	Monkey orange fruit juice improves the nutritional quality of a maize-based diet. <i>Food Research International</i> , <b>2019</b> , 116, 870-877	7	6
17	The effect of chewing on oral glucoraphanin hydrolysis in raw and steamed broccoli. <i>Journal of Functional Foods</i> , <b>2018</b> , 45, 306-312	5.1	5
16	Effect of heat and pectinase maceration on phenolic compounds and physicochemical quality of <i>Strychnos cocculoides</i> juice. <i>PLoS ONE</i> , <b>2018</b> , 13, e0202415	3.7	5
15	Practices and health perception of preparation of Brassica vegetables: translating survey data to technological and nutritional implications. <i>International Journal of Food Sciences and Nutrition</i> , <b>2015</b> , 66, 633-41	3.7	4
14	Glucosinolates 31-51		4
13	REDUCTION OF GLUCOSINOLATES CONTENT DURING SAYUR ASIN FERMENTATION. <i>Jurnal Teknologi Dan Industri Pangan</i> , <b>2013</b> , 24, 235-239	0.3	3
12	Surface color distribution analysis by computer vision compared to sensory testing: Vacuum fried fruits as a case study. <i>Food Research International</i> , <b>2021</b> , 143, 110230	7	3
11	Inhibition of $\beta$ -glucosidases by tea polyphenols in rat intestinal extract and Caco-2 cells grown on Transwell. <i>Food Chemistry</i> , <b>2021</b> , 361, 130047	8.5	3
10	Healthiness, naturalness and sustainability perception of adolescents toward chocolate snack bars. <i>British Food Journal</i> , <b>2022</b> , 124, 200-218	2.8	3
9	Evaluation of research methods to study domestic food preparation. <i>British Food Journal</i> , <b>2015</b> , 117, 7-21	2.8	2
8	Re: Fruit and vegetable intake and risk of major chronic disease. <i>Journal of the National Cancer Institute</i> , <b>2005</b> , 97, 607-8; author reply 608-9	9.7	2
7	Isolation of a 6.2 kb genomic fragment carrying the Adh1 gene of tomato and its expression in transgenic tobacco. <i>Plant Molecular Biology</i> , <b>1993</b> , 23, 633-7	4.6	2

6	Processing and Preparation of Brassica Vegetables and the Fate of Glucosinolates. <i>Reference Series in Phytochemistry</i> , <b>2017</b> , 407-429	0.7	2
5	Modelling and optimization of high-pressure homogenization of not-from-concentrate juice: Achieving better juice quality using sustainable production. <i>Food Chemistry</i> , <b>2022</b> , 370, 131058	8.5	2
4	Micelle separation conditions based on particle size strongly affect carotenoid bioaccessibility assessment from juices after in vitro digestion.. <i>Food Research International</i> , <b>2022</b> , 151, 110891	7	1
3	Are cereal bars significantly healthier and more natural than chocolate bars? A preliminary assessment in the German market. <i>Journal of Functional Foods</i> , <b>2022</b> , 89, 104940	5.1	1
2	Liposome-mediated transfer of YAC-DNA to tobacco cells <b>1998</b> , 1-15		
1	Processing and Preparation of Brassica Vegetables and the Fate of Glucosinolates <b>2016</b> , 1-23		