

Cornelius M Smuts

List of Publications by Year in Descending Order

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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.

79
papers

1,425
citations

21
h-index

35
g-index

81
ext. papers

1,677
ext. citations

3.9
avg, IF

4.38
L-index

#	Paper	IF	Citations
79	Animal-source foods as a suitable complementary food for improved physical growth in 6 to 24-month-old children in low- and middle-income countries: A systematic review and meta-analysis of randomised controlled trials.. <i>British Journal of Nutrition</i> , 2022 , 1-35	3.6	1
78	Effects and Reversibility of Pre- and Post-natal Iron and Omega-3 Fatty Acid Deficiency, Alone and in Combination, on Bone Development in Rats.. <i>Frontiers in Nutrition</i> , 2021 , 8, 802609	6.2	
77	Maternal postpartum depression in relation to child undernutrition in low- and middle-income countries: a systematic review and meta-analysis. <i>European Journal of Pediatrics</i> , 2021 , 1	4.1	1
76	Longer-Term Omega-3 LCPUFA More Effective Adjunct Therapy for Tuberculosis Than Ibuprofen in a C3HeB/FeJ Tuberculosis Mouse Model. <i>Frontiers in Immunology</i> , 2021 , 12, 659943	8.4	1
75	-3 long-chain PUFA promote antibacterial and inflammation-resolving effects in -infected C3HeB/FeJ mice, dependent on fatty acid status. <i>British Journal of Nutrition</i> , 2021 , 1-14	3.6	2
74	Iodine status of pregnant women living in urban Johannesburg, South Africa. <i>Maternal and Child Nutrition</i> , 2021 , e13236	3.4	1
73	Associations of dietary diversity with anaemia and iron status among 5- to 12-year-old schoolchildren in South Africa. <i>Public Health Nutrition</i> , 2021 , 24, 2554-2562	3.3	2
72	Nutrient density, but not cost of diet, is associated with anemia and iron deficiency in school-age children in South Africa. <i>Nutrition</i> , 2021 , 84, 111096	4.8	1
71	A Priori and a Posteriori Dietary Patterns among Pregnant Women in Johannesburg, South Africa: The NuPED Study. <i>Nutrients</i> , 2021 , 13,	6.7	1
70	Characterization of Genetic Variants in the SLC5A5 Gene and Associations With Breast Milk Iodine Concentration in Lactating Women of African Descent: The NUPED Study. <i>Frontiers in Nutrition</i> , 2021 , 8, 692504	6.2	1
69	Beneficial effect of long-chain n-3 polyunsaturated fatty acid supplementation on tuberculosis in mice. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2021 , 170, 102304	2.8	2
68	Adjunct n-3 Long-Chain Polyunsaturated Fatty Acid Treatment in Tuberculosis Reduces Inflammation and Improves Anemia of Infection More in C3HeB/FeJ Mice With Low n-3 Fatty Acid Status Than Sufficient n-3 Fatty Acid Status. <i>Frontiers in Nutrition</i> , 2021 , 8, 695452	6.2	0
67	Associations of linoleic acid with markers of glucose metabolism and liver function in South African adults. <i>Lipids in Health and Disease</i> , 2020 , 19, 138	4.4	0
66	Adjusting Haemoglobin Values for Altitude Maximizes Combined Sensitivity and Specificity to Detect Iron Deficiency among Women of Reproductive Age in Johannesburg, South Africa. <i>Nutrients</i> , 2020 , 12,	6.7	4
65	Diet and sedentary behaviour in relation to mortality in US adults with a cardiovascular condition: results from the National Health and Nutrition Examination Survey linked to the US mortality registry. <i>British Journal of Nutrition</i> , 2020 , 124, 1329-1337	3.6	0
64	Missing data imputation via the expectation-maximization algorithm can improve principal component analysis aimed at deriving biomarker profiles and dietary patterns. <i>Nutrition Research</i> , 2020 , 75, 67-76	4	14
63	Diet and sedentary behaviour in relation to cancer survival. A report from the national health and nutrition examination survey linked to the U.S. mortality registry. <i>Clinical Nutrition</i> , 2020 , 39, 3489-3496	5.9	6

62	Should formula for infants provide arachidonic acid along with DHA? A position paper of the European Academy of Paediatrics and the Child Health Foundation. <i>American Journal of Clinical Nutrition</i> , 2020 , 111, 10-16	7	43
61	Dietary patterns of 6-24-month-old children are associated with nutrient content and quality of the diet. <i>Maternal and Child Nutrition</i> , 2020 , 16, e12901	3.4	1
60	Breast milk and erythrocyte fatty acid composition of lactating women residing in a peri-urban South African township. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2020 , 156, 102027	2.8	3
59	Omega-3 Fatty Acid and Iron Supplementation Alone, but Not in Combination, Lower Inflammation and Anemia of Infection in -Infected Mice. <i>Nutrients</i> , 2020 , 12,	6.7	6
58	The effects of anti-inflammatory agents as host-directed adjunct treatment of tuberculosis in humans: a systematic review and meta-analysis. <i>Respiratory Research</i> , 2020 , 21, 223	7.3	5
57	Efficacy of novel small-quantity lipid-based nutrient supplements in improving long-chain polyunsaturated fatty acid status of South African infants: a randomised controlled trial. <i>European Journal of Clinical Nutrition</i> , 2020 , 74, 193-202	5.2	0
56	Determining sample size adequacy for animal model studies in nutrition research: limits and ethical challenges of ordinary power calculation procedures. <i>International Journal of Food Sciences and Nutrition</i> , 2020 , 71, 256-264	3.7	4
55	Maternal iron-deficiency is associated with premature birth and higher birth weight despite routine antenatal iron supplementation in an urban South African setting: The NuPED prospective study. <i>PLoS ONE</i> , 2019 , 14, e0221299	3.7	15
54	Long-Chain Polyunsaturated Fatty Acids Are Associated with Blood Pressure and Hypertension over 10-Years in Black South African Adults Undergoing Nutritional Transition. <i>Foods</i> , 2019 , 8,	4.9	4
53	Nutrient patterns and their relation to anemia and iron status in 5- to 12-y-old children in South Africa. <i>Nutrition</i> , 2019 , 62, 194-200	4.8	10
52	Substitution of sedentary time with light physical activity is related to increased bone density in U.S. women over 50 years old. An iso-temporal substitution analysis based on the National health and Nutrition Examination Survey. <i>European Journal of Sport Science</i> , 2019 , 19, 1404-1413	3.9	7
51	Food or nutrient pattern assessment using the principal component analysis applied to food questionnaires. Pitfalls, tips and tricks. <i>International Journal of Food Sciences and Nutrition</i> , 2019 , 70, 738-748	3.7	3
50	Plasma phospholipid fatty acid patterns are associated with adiposity and the metabolic syndrome in black South Africans: a cross-sectional study. <i>Cardiovascular Journal of Africa</i> , 2019 , 30, 228-238	0.7	5
49	Effect of small-quantity lipid-based nutrient supplements on growth, psychomotor development, iron status, and morbidity among 6- to 12-mo-old infants in South Africa: a randomized controlled trial. <i>American Journal of Clinical Nutrition</i> , 2019 , 109, 55-68	7	31
48	Nutritional status as a central determinant of child mortality in sub-Saharan Africa: A quantitative conceptual framework. <i>Maternal and Child Nutrition</i> , 2019 , 15, e12722	3.4	7
47	Associations of plasma total phospholipid fatty acid patterns with feeding practices, growth, and psychomotor development in 6-month-old South African infants. <i>Maternal and Child Nutrition</i> , 2019 , 15, e12763	3.4	5
46	Contribution of commercial infant products and fortified staple foods to nutrient intake at ages 6, 12, and 18 months in a cohort of children from a low socio-economic community in South Africa. <i>Maternal and Child Nutrition</i> , 2019 , 15, e12674	3.4	12
45	Type of dietary fat intakes in relation to all-cause and cause-specific mortality in US adults: an iso-energetic substitution analysis from the American National Health and Nutrition Examination Survey linked to the US mortality registry. <i>British Journal of Nutrition</i> , 2018 , 119, 456-463	3.6	18

44	Sensitivity of fatty acid desaturation and elongation to plasma zinc concentration: a randomised controlled trial in Beninese children. <i>British Journal of Nutrition</i> , 2018 , 119, 610-619	3.6	19
43	Physical activity volume in relation to risk of atrial fibrillation. A non-linear meta-regression analysis. <i>European Journal of Preventive Cardiology</i> , 2018 , 25, 857-866	3.9	21
42	Nutrition during pregnancy and early development (NuPED) in urban South Africa: a study protocol for a prospective cohort. <i>BMC Pregnancy and Childbirth</i> , 2018 , 18, 308	3.2	20
41	Infant Development at the Age of 6 Months in Relation to Feeding Practices, Iron Status, and Growth in a Peri-Urban Community of South Africa. <i>Nutrients</i> , 2018 , 10,	6.7	7
40	Relationship between Serum Omega-3 Fatty Acid and Asthma Endpoints. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 16,	4.6	18
39	Bariatric Surgery to Reduce Mortality in US Adults. A Public Health Perspective from the Analysis of the American National Health and Nutrition Examination Survey Linked to the US Mortality Register. <i>Obesity Surgery</i> , 2018 , 28, 900-906	3.7	2
38	Iodine status and associations with feeding practices and psychomotor milestone development in six-month-old South African infants. <i>Maternal and Child Nutrition</i> , 2017 , 13,	3.4	7
37	Lipid-based nutrient supplements and linear growth in children under 2 years: a review. <i>Proceedings of the Nutrition Society</i> , 2017 , 76, 580-588	2.9	13
36	The prevalence and factors associated with stunting among infants aged 6 months in a peri-urban South African community. <i>Public Health Nutrition</i> , 2017 , 20, 3209-3218	3.3	9
35	Breast-Milk Iodine Concentrations, Iodine Status, and Thyroid Function of Breastfed Infants Aged 2-4 Months and Their Mothers Residing in a South African Township. <i>JCRPE Journal of Clinical Research in Pediatric Endocrinology</i> , 2016 , 8, 381-391	1.9	21
34	Effect of African leafy vegetables on the micronutrient status of mildly deficient farm-school children in South Africa: a randomized controlled study. <i>Public Health Nutrition</i> , 2016 , 19, 935-45	3.3	15
33	Dietary fat intake and red blood cell fatty acid composition of children and women from three different geographical areas in South Africa. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2016 , 109, 13-21	2.8	3
32	n-3 Long-chain PUFAs reduce respiratory morbidity caused by iron supplementation in iron-deficient South African schoolchildren: a randomized, double-blind, placebo-controlled intervention. <i>American Journal of Clinical Nutrition</i> , 2015 , 101, 668-79	7	19
31	Long-chain n-3 PUFA supplementation decreases physical activity during class time in iron-deficient South African school children. <i>British Journal of Nutrition</i> , 2015 , 113, 212-24	3.6	11
30	Differential ferritin interpretation methods that adjust for inflammation yield discrepant iron deficiency prevalence. <i>Maternal and Child Nutrition</i> , 2015 , 11 Suppl 4, 221-8	3.4	9
29	Novel interactions between iron and n-3 fatty acids in cognition and immune function. <i>Lipid Technology</i> , 2015 , 27, 183-186		
28	Potential contribution of African green leafy vegetables and maize porridge composite meals to iron and zinc nutrition. <i>Nutrition</i> , 2015 , 31, 1117-23	4.8	23
27	Acceptability of Novel Small-Quantity Lipid-Based Nutrient Supplements for Complementary Feeding in a Peri-Urban South African Community. <i>Food and Nutrition Bulletin</i> , 2015 , 36, 455-66	1.8	7

26	Providing male rats deficient in iron and n-3 fatty acids with iron and alpha-linolenic acid alone affects brain serotonin and cognition differently from combined provision. <i>Lipids in Health and Disease</i> , 2014 , 13, 97	4.4	9
25	Effects of iron supplementation on dominant bacterial groups in the gut, faecal SCFA and gut inflammation: a randomised, placebo-controlled intervention trial in South African children. <i>British Journal of Nutrition</i> , 2014 , 112, 547-56	3.6	66
24	Different dietary fatty acids are associated with blood lipids in healthy South African men and women: the PURE study. <i>International Journal of Cardiology</i> , 2014 , 172, 368-74	3.2	13
23	Indigenous and traditional plants: South African parents' knowledge, perceptions and uses and their children's sensory acceptance. <i>Journal of Ethnobiology and Ethnomedicine</i> , 2013 , 9, 78	3.9	28
22	Effects of a multi-micronutrient-fortified beverage, with and without sugar, on growth and cognition in South African schoolchildren: a randomised, double-blind, controlled intervention. <i>British Journal of Nutrition</i> , 2013 , 110, 2271-84	3.6	32
21	Combined deficiency of iron and (n-3) fatty acids in male rats disrupts brain monoamine metabolism and produces greater memory deficits than iron deficiency or (n-3) fatty acid deficiency alone. <i>Journal of Nutrition</i> , 2012 , 142, 1463-71	4.1	20
20	In male rats with concurrent iron and (n-3) fatty acid deficiency, provision of either iron or (n-3) fatty acids alone alters monoamine metabolism and exacerbates the cognitive deficits associated with combined deficiency. <i>Journal of Nutrition</i> , 2012 , 142, 1472-8	4.1	14
19	Effects of iron and n-3 fatty acid supplementation, alone and in combination, on cognition in school children: a randomized, double-blind, placebo-controlled intervention in South Africa. <i>American Journal of Clinical Nutrition</i> , 2012 , 96, 1327-38	7	68
18	A micronutrient powder with low doses of highly absorbable iron and zinc reduces iron and zinc deficiency and improves weight-for-age Z-scores in South African children. <i>Journal of Nutrition</i> , 2011 , 141, 237-42	4.1	51
17	Point-of-use micronutrient fortification: lessons learned in implementing a preschool-based pilot trial in South Africa. <i>International Journal of Food Sciences and Nutrition</i> , 2011 , 62, 1-16	3.7	25
16	Plasma polyunsaturated fatty acids and liver enzymes in HIV-infected subjects: the Prospective Urban and Rural Epidemiology (PURE) Study. <i>American Journal of Clinical Nutrition</i> , 2010 , 91, 729-35	7	5
15	Changes in erythrocyte membrane fatty acids during a clinical trial of eicosapentaenoic acid (EPA) supplementation in schizophrenia. <i>Metabolic Brain Disease</i> , 2009 , 24, 659-72	3.9	16
14	Conjugated linoleic acid isomers, t10c12 and c9t11, are differentially incorporated into adipose tissue and skeletal muscle in humans. <i>Lipids</i> , 2009 , 44, 983-8	1.6	11
13	A randomised control trial in schoolchildren showed improvement in cognitive function after consuming a bread spread, containing fish flour from a marine source. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2009 , 80, 143-9	2.8	73
12	Immune cell membrane fatty acids and inflammatory marker, C-reactive protein, in patients with multiple sclerosis. <i>British Journal of Nutrition</i> , 2009 , 102, 1334-40	3.6	21
11	Fortifying brown bread with sodium iron EDTA, ferrous fumarate, or electrolytic iron does not affect iron status in South African schoolchildren. <i>Journal of Nutrition</i> , 2008 , 138, 782-6	4.1	26
10	The efficacy of ferrous bisglycinate and electrolytic iron as fortificants in bread in iron-deficient school children. <i>British Journal of Nutrition</i> , 2006 , 95, 532-8	3.6	28
9	Efficacy of multiple micronutrient supplementation for improving anemia, micronutrient status, and growth in South African infants. <i>Journal of Nutrition</i> , 2005 , 135, 653S-659S	4.1	115

8	Efficacy of a foodlet-based multiple micronutrient supplement for preventing growth faltering, anemia, and micronutrient deficiency of infants: the four country IRIS trial pooled data analysis. <i>Journal of Nutrition</i> , 2005 , 135, 631S-638S	4.1	37
7	A Randomized Trial of Docosahexaenoic Acid Supplementation During the Third Trimester of Pregnancy. <i>Obstetrics and Gynecology</i> , 2003 , 101, 469-479	4.9	110
6	High-DHA eggs: feasibility as a means to enhance circulating DHA in mother and infant. <i>Lipids</i> , 2003 , 38, 407-14	1.6	60
5	A randomized trial of docosahexaenoic acid supplementation during the third trimester of pregnancy. <i>Obstetrics and Gynecology</i> , 2003 , 101, 469-79	4.9	107
4	Effect of palm oil on plasma lipoprotein concentrations and plasma low-density lipoprotein composition in non-human primates. <i>International Journal of Food Sciences and Nutrition</i> , 2000 , 51, s21-s30	3.7	15
3	Free cholesterol concentrations in the high-density lipoprotein subfraction-3 as a risk indicator in patients with angiographically documented coronary artery disease. <i>Coronary Artery Disease</i> , 1994 , 5, 331-8	1.4	25
2	Simple thin-layer chromatographic purification procedure for the determination of cholesterol ester fatty acid compositions. <i>Biomedical Applications</i> , 1991 , 564, 272-7		10
1	Nutritional status and psychomotor development in 12-18-month-old children in a post-intervention study. <i>South African Journal of Clinical Nutrition</i> , 1-9	1.1	