Cornelius M Smuts

List of Publications by Citations

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	Efficacy of multiple micronutrient supplementation for improving anemia, micronutrient status, and growth in South African infants. *Journal of Nutrition*, **2005**, 135, 653S-659S	4.1	115
78	A Randomized Trial of Docosahexaenoic Acid Supplementation During the Third Trimester of Pregnancy. *Obstetrics and Gynecology*, **2003**, 101, 469-479	4.9	110
77	A randomized trial of docosahexaenoic acid supplementation during the third trimester of pregnancy. *Obstetrics and Gynecology*, **2003**, 101, 469-79	4.9	107
76	A randomised control trial in schoolchildren showed improvement in cognitive function after consuming a bread spread, containing fish flour from a marine source. *Prostaglandins Leukotrienes and Essential Fatty Acids*, **2009**, 80, 143-9	2.8	73
75	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. *American Journal of Clinical Nutrition*, **2012**, 96, 1327-38	7	68
74	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. *British Journal of Nutrition*, **2014**, 112, 547-56	3.6	66
73	High-DHA eggs: feasibility as a means to enhance circulating DHA in mother and infant. *Lipids*, **2003**, 38, 407-14	1.6	60
72	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. *Journal of Nutrition*, **2011**, 141, 237-42	4.1	51
71	Should formula for infants provide arachidonic acid along with DHA? A position paper of the European Academy of Paediatrics and the Child Health Foundation. *American Journal of Clinical Nutrition*, **2020**, 111, 10-16	7	43
70	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. *Journal of Nutrition*, **2005**, 135, 631S-638S	4.1	37
69	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. *British Journal of Nutrition*, **2013**, 110, 2271-84	3.6	32
68	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. *American Journal of Clinical Nutrition*, **2019**, 109, 55-68	7	31
67	Indigenous and traditional plants: South African parentsTknowledge, perceptions and uses and their childrenTs sensory acceptance. *Journal of Ethnobiology and Ethnomedicine*, **2013**, 9, 78	3.9	28
66	The efficacy of ferrous bisglycinate and electrolytic iron as fortificants in bread in iron-deficient school children. *British Journal of Nutrition*, **2006**, 95, 532-8	3.6	28
65	Fortifying brown bread with sodium iron EDTA, ferrous fumarate, or electrolytic iron does not affect iron status in South African schoolchildren. *Journal of Nutrition*, **2008**, 138, 782-6	4.1	26
64	Point-of-use micronutrient fortification: lessons learned in implementing a preschool-based pilot trial in South Africa. *International Journal of Food Sciences and Nutrition*, **2011**, 62, 1-16	3.7	25
63	Free cholesterol concentrations in the high-density lipoprotein subfraction-3 as a risk indicator in patients with angiographically documented coronary artery disease. *Coronary Artery Disease*, **1994**, 5, 331-8	1.4	25

62	Potential contribution of African green leafy vegetables and maize porridge composite meals to iron and zinc nutrition. *Nutrition*, **2015**, 31, 1117-23	4.8	23
61	Physical activity volume in relation to risk of atrial fibrillation. A non-linear meta-regression analysis. *European Journal of Preventive Cardiology*, **2018**, 25, 857-866	3.9	21
60	Immune cell membrane fatty acids and inflammatory marker, C-reactive protein, in patients with multiple sclerosis. *British Journal of Nutrition*, **2009**, 102, 1334-40	3.6	21
59	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. *JCRPE Journal of Clinical Research in Pediatric Endocrinology*, **2016**, 8, 381-391	1.9	21
58	Nutrition during pregnancy and early development (NuPED) in urban South Africa: a study protocol for a prospective cohort. *BMC Pregnancy and Childbirth*, **2018**, 18, 308	3.2	20
57	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. *Journal of Nutrition*, **2012**, 142, 1463-71	4.1	20
56	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. *American Journal of Clinical Nutrition*, **2015**, 101, 668-79	7	19
55	Sensitivity of fatty acid desaturation and elongation to plasma zinc concentration: a randomised controlled trial in Beninese children. *British Journal of Nutrition*, **2018**, 119, 610-619	3.6	19
54	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. *British Journal of Nutrition*, **2018**, 119, 456-463	3.6	18
53	Relationship between Serum Omega-3 Fatty Acid and Asthma Endpoints. *International Journal of Environmental Research and Public Health*, **2018**, 16,	4.6	18
52	Changes in erythrocyte membrane fatty acids during a clinical trial of eicosapentaenoic acid (EPA) supplementation in schizophrenia. *Metabolic Brain Disease*, **2009**, 24, 659-72	3.9	16
51	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. *PLoS ONE*, **2019**, 14, e0221299	3.7	15
50	Effect of palm oil on plasma lipoprotein concentrations and plasma low-density lipoprotein composition in non-human primates. *International Journal of Food Sciences and Nutrition*, **2000**, 51, s21-s30	3.7	15
49	Effect of African leafy vegetables on the micronutrient status of mildly deficient farm-school children in South Africa: a randomized controlled study. *Public Health Nutrition*, **2016**, 19, 935-45	3.3	15
48	Missing data imputation via the expectation-maximization algorithm can improve principal component analysis aimed at deriving biomarker profiles and dietary patterns. *Nutrition Research*, **2020**, 75, 67-76	4	14
47	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. *Journal of Nutrition*, **2012**, 142, 1472-8	4.1	14
46	Lipid-based nutrient supplements and linear growth in children under 2 years: a review. *Proceedings of the Nutrition Society*, **2017**, 76, 580-588	2.9	13
45	Different dietary fatty acids are associated with blood lipids in healthy South African men and women: the PURE study. *International Journal of Cardiology*, **2014**, 172, 368-74	3.2	13

44	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. *Maternal and Child Nutrition*, **2019**, 15, e12674	3.4	12
43	Long-chain n-3 PUFA supplementation decreases physical activity during class time in iron-deficient South African school children. *British Journal of Nutrition*, **2015**, 113, 212-24	3.6	11
42	Conjugated linoleic acid isomers, t10c12 and c9t11, are differentially incorporated into adipose tissue and skeletal muscle in humans. *Lipids*, **2009**, 44, 983-8	1.6	11
41	Nutrient patterns and their relation to anemia and iron status in 5- to 12-y-old children in South Africa. *Nutrition*, **2019**, 62, 194-200	4.8	10
40	Simple thin-layer chromatographic purification procedure for the determination of cholesterol ester fatty acid compositions. *Biomedical Applications*, **1991**, 564, 272-7		10
39	Differential ferritin interpretation methods that adjust for inflammation yield discrepant iron deficiency prevalence. *Maternal and Child Nutrition*, **2015**, 11 Suppl 4, 221-8	3.4	9
38	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. *Lipids in Health and Disease*, **2014**, 13, 97	4.4	9
37	The prevalence and factors associated with stunting among infants aged 6 months in a peri-urban South African community. *Public Health Nutrition*, **2017**, 20, 3209-3218	3.3	9
36	Iodine status and associations with feeding practices and psychomotor milestone development in six-month-old South African infants. *Maternal and Child Nutrition*, **2017**, 13,	3.4	7
35	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. *European Journal of Sport Science*, **2019**, 19, 1404-1413	3.9	7
34	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. *Nutrients*, **2018**, 10,	6.7	7
33	Acceptability of Novel Small-Quantity Lipid-Based Nutrient Supplements for Complementary Feeding in a Peri-Urban South African Community. *Food and Nutrition Bulletin*, **2015**, 36, 455-66	1.8	7
32	Nutritional status as a central determinant of child mortality in sub-Saharan Africa: A quantitative conceptual framework. *Maternal and Child Nutrition*, **2019**, 15, e12722	3.4	7
31	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. *Clinical Nutrition*, **2020**, 39, 3489-3496	5.9	6
30	Omega-3 Fatty Acid and Iron Supplementation Alone, but Not in Combination, Lower Inflammation and Anemia of Infection in -Infected Mice. *Nutrients*, **2020**, 12,	6.7	6
29	Plasma polyunsaturated fatty acids and liver enzymes in HIV-infected subjects: the Prospective Urban and Rural Epidemiology (PURE) Study. *American Journal of Clinical Nutrition*, **2010**, 91, 729-35	7	5
28	Plasma phospholipid fatty acid patterns are associated with adiposity and the metabolic syndrome in black South Africans: a cross-sectional study. *Cardiovascular Journal of Africa*, **2019**, 30, 228-238	0.7	5
27	The effects of anti-inflammatory agents as host-directed adjunct treatment of tuberculosis in humans: a systematic review and meta-analysis. *Respiratory Research*, **2020**, 21, 223	7.3	5

26	Associations of plasma total phospholipid fatty acid patterns with feeding practices, growth, and psychomotor development in 6-month-old South African infants. *Maternal and Child Nutrition*, **2019**, 15, e12763	3.4	5
25	Long-Chain Polyunsaturated Fatty Acids Are Associated with Blood Pressure and Hypertension over 10-Years in Black South African Adults Undergoing Nutritional Transition. *Foods*, **2019**, 8,	4.9	4
24	Adjusting Haemoglobin Values for Altitude Maximizes Combined Sensitivity and Specificity to Detect Iron Deficiency among Women of Reproductive Age in Johannesburg, South Africa. *Nutrients*, **2020**, 12,	6.7	4
23	Determining sample size adequacy for animal model studies in nutrition research: limits and ethical challenges of ordinary power calculation procedures. *International Journal of Food Sciences and Nutrition*, **2020**, 71, 256-264	3.7	4
22	Food or nutrient pattern assessment using the principal component analysis applied to food questionnaires. Pitfalls, tips and tricks. *International Journal of Food Sciences and Nutrition*, **2019**, 70, 738-748	3.7	3
21	Breast milk and erythrocyte fatty acid composition of lactating women residing in a peri-urban South African township. *Prostaglandins Leukotrienes and Essential Fatty Acids*, **2020**, 156, 102027	2.8	3
20	Dietary fat intake and red blood cell fatty acid composition of children and women from three different geographical areas in South Africa. *Prostaglandins Leukotrienes and Essential Fatty Acids*, **2016**, 109, 13-21	2.8	3
19	-3 long-chain PUFA promote antibacterial and inflammation-resolving effects in -infected C3HeB/FeJ mice, dependent on fatty acid status. *British Journal of Nutrition*, **2021**, 1-14	3.6	2
18	Associations of dietary diversity with anaemia and iron status among 5- to 12-year-old schoolchildren in South Africa. *Public Health Nutrition*, **2021**, 24, 2554-2562	3.3	2
17	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. *Obesity Surgery*, **2018**, 28, 900-906	3.7	2
16	Beneficial effect of long-chain n-3 polyunsaturated fatty acid supplementation on tuberculosis in mice. *Prostaglandins Leukotrienes and Essential Fatty Acids*, **2021**, 170, 102304	2.8	2
15	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.. *British Journal of Nutrition*, **2022**, 1-35	3.6	1
14	Maternal postpartum depression in relation to child undernutrition in low- and middle-income countries: a systematic review and meta-analysis. *European Journal of Pediatrics*, **2021**, 1	4.1	1
13	Dietary patterns of 6-24-month-old children are associated with nutrient content and quality of the diet. *Maternal and Child Nutrition*, **2020**, 16, e12901	3.4	1
12	Longer-Term Omega-3 LCPUFA More Effective Adjunct Therapy for Tuberculosis Than Ibuprofen in a C3HeB/FeJ Tuberculosis Mouse Model. *Frontiers in Immunology*, **2021**, 12, 659943	8.4	1
11	Iodine status of pregnant women living in urban Johannesburg, South Africa. *Maternal and Child Nutrition*, **2021**, e13236	3.4	1
10	Nutrient density, but not cost of diet, is associated with anemia and iron deficiency in school-age children in South Africa. *Nutrition*, **2021**, 84, 111096	4.8	1
9	A Priori and a Posteriori Dietary Patterns among Pregnant Women in Johannesburg, South Africa: The NuPED Study. *Nutrients*, **2021**, 13,	6.7	1

8	Characterization of Genetic Variants in the SLC5A5 Gene and Associations With Breast Milk Iodine Concentration in Lactating Women of African Descent: The NUPED Study. *Frontiers in Nutrition*, **2021**, 8, 692504	6.2	1
7	Associations of linoleic acid with markers of glucose metabolism and liver function in South African adults. *Lipids in Health and Disease*, **2020**, 19, 138	4.4	0
6	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. *British Journal of Nutrition*, **2020**, 124, 1329-1337	3.6	0
5	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. *European Journal of Clinical Nutrition*, **2020**, 74, 193-202	5.2	0
4	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. *Frontiers in Nutrition*, **2021**, 8, 695452	6.2	0
3	Novel interactions between iron and n-3 fatty acids in cognition and immune function. *Lipid Technology*, **2015**, 27, 183-186		
2	Effects and Reversibility of Pre- and Post-natal Iron and Omega-3 Fatty Acid Deficiency, Alone and in Combination, on Bone Development in Rats.. *Frontiers in Nutrition*, **2021**, 8, 802609	6.2	
1	Nutritional status and psychomotor development in 12–18-month-old children in a post-intervention study. *South African Journal of Clinical Nutrition*,1-9	1.1	