

# Johan Louw

## List of Publications by Year in descending order

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111  
papers

3,498  
citations

147801

31  
h-index

175258

52  
g-index

114  
all docs

114  
docs citations

114  
times ranked

4240  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prenatal dexamethasone exposure induces changes in nonhuman primate offspring cardiometabolic and hypothalamic-pituitary-adrenal axis function. <i>Journal of Clinical Investigation</i> , 2007, 117, 1058-1067.	8.2	201
2	Inflammation and Oxidative Stress in an Obese State and the Protective Effects of Gallic Acid. <i>Nutrients</i> , 2019, 11, 23.	4.1	180
3	Antidiabetic screening and scoring of 11 plants traditionally used in South Africa. <i>Journal of Ethnopharmacology</i> , 2008, 119, 81-86.	4.1	132
4	Polyphenols, autophagy and doxorubicin-induced cardiotoxicity. <i>Life Sciences</i> , 2017, 180, 160-170.	4.3	105
5	Critical evaluation of causality assessment of herb-drug interactions in patients. <i>British Journal of Clinical Pharmacology</i> , 2018, 84, 679-693.	2.4	101
6	Hypoglycaemic activity of four plant extracts traditionally used in South Africa for diabetes. <i>Journal of Ethnopharmacology</i> , 2009, 124, 619-624.	4.1	89
7	Acute assessment of an aspalathin-enriched green rooibos ( <i>Aspalathus linearis</i> ) extract with hypoglycemic potential. <i>Phytomedicine</i> , 2012, 20, 32-39.	5.3	87
8	Islet cell response in the neonatal rat after exposure to a high-fat diet during pregnancy. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 288, R1122-R1128.	1.8	86
9	Hyperglycemia-induced oxidative stress and heart disease-cardioprotective effects of rooibos flavonoids and phenylpyruvic acid-2-O- $\beta$ -D-glucoside. <i>Nutrition and Metabolism</i> , 2017, 14, 45.	3.0	78
10	Amelioration of palmitate-induced insulin resistance in C2C12 muscle cells by rooibos ( <i>Aspalathus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.3	77
11	Aspalathin, a dihydrochalcone $\beta$ -glucoside, protects H9c2 cardiomyocytes against high glucose induced shifts in substrate preference and apoptosis. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 922-934.	3.3	70
12	Aspalathin Protects the Heart against Hyperglycemia-Induced Oxidative Damage by Up-Regulating Nrf2 Expression. <i>Molecules</i> , 2017, 22, 129.	3.8	64
13	Aspalathin improves glucose and lipid metabolism in 3T3-L1 adipocytes exposed to palmitate. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 2199-2208.	3.3	60
14	A dose-dependent effect of dimethyl sulfoxide on lipid content, cell viability and oxidative stress in 3T3-L1 adipocytes. <i>Toxicology Reports</i> , 2018, 5, 1014-1020.	3.3	60
15	Anti-diabetic effects of <i>Sutherlandia frutescens</i> in Wistar rats fed a diabetogenic diet. <i>Journal of Ethnopharmacology</i> , 2007, 109, 121-127.	4.1	59
16	A systematic review on the functional role of Th1/Th2 cytokines in type 2 diabetes and related metabolic complications. <i>Cytokine</i> , 2020, 126, 154892.	3.2	57
17	Blood-Based DNA Methylation Biomarkers for Type 2 Diabetes: Potential for Clinical Applications. <i>Frontiers in Endocrinology</i> , 2018, 9, 744.	3.5	56
18	Aspalathin-Enriched Green Rooibos Extract Reduces Hepatic Insulin Resistance by Modulating PI3K/AKT and AMPK Pathways. <i>International Journal of Molecular Sciences</i> , 2019, 20, 633.	4.1	56

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19	The cardioprotective effect of an aqueous extract of fermented rooibos ( <i>Aspalathus linearis</i> ) on cultured cardiomyocytes derived from diabetic rats. <i>Phytomedicine</i> , 2014, 21, 595-601.	5.3	51
20	Effects of fermented rooibos ( <i>Aspalathus linearis</i> ) on adipocyte differentiation. <i>Phytomedicine</i> , 2014, 21, 109-117.	5.3	50
21	A Systematic Review on the Protective Effect of N-Acetyl Cysteine Against Diabetes-Associated Cardiovascular Complications. <i>American Journal of Cardiovascular Drugs</i> , 2018, 18, 283-298.	2.2	50
22	Hyperglycaemia and reduced glucokinase expression in weanling offspring from dams maintained on a high-fat diet. <i>British Journal of Nutrition</i> , 2006, 95, 391-396.	2.3	49
23	Aspalathin Reverts Doxorubicin-Induced Cardiotoxicity through Increased Autophagy and Decreased Expression of p53/mTOR/p62 Signaling. <i>Molecules</i> , 2017, 22, 1589.	3.8	45
24	Isoorientin: A dietary flavone with the potential to ameliorate diverse metabolic complications. <i>Pharmacological Research</i> , 2020, 158, 104867.	7.1	44
25	The Transcription Profile Unveils the Cardioprotective Effect of Aspalathin against Lipid Toxicity in an In Vitro H9c2 Model. <i>Molecules</i> , 2017, 22, 219.	3.8	40
26	The beneficial effects of N-acetyl cysteine (NAC) against obesity associated complications: A systematic review of pre-clinical studies. <i>Pharmacological Research</i> , 2019, 146, 104332.	7.1	39
27	Gestational high-fat programming impairs insulin release and reduces Pdx-1 and glucokinase immunoreactivity in neonatal Wistar rats. <i>Metabolism: Clinical and Experimental</i> , 2009, 58, 1787-1792.	3.4	38
28	High-Fat Programming of Hyperglycemia, Hyperinsulinemia, Insulin Resistance, Hyperleptinemia, and Altered Islet Architecture in 3-Month-Old Wistar Rats. <i>Isrn Endocrinology</i> , 2012, 2012, 1-8.	2.0	37
29	Compromised $\beta$ -Cell Development and $\beta$ -Cell Dysfunction in Weanling Offspring From Dams Maintained on a High-Fat Diet During Gestation. <i>Pancreas</i> , 2007, 34, 347-353.	1.1	34
30	Cyclopia maculata and Cyclopia subternata (honeybush tea) inhibits adipogenesis in 3T3-L1 pre-adipocytes. <i>Phytomedicine</i> , 2013, 20, 401-408.	5.3	34
31	Diet-induced hypothalamic dysfunction and metabolic disease, and the therapeutic potential of polyphenols. <i>Molecular Metabolism</i> , 2019, 27, 1-10.	6.5	34
32	N-Acetyl Cysteine Targets Hepatic Lipid Accumulation to Curb Oxidative Stress and Inflammation in NAFLD: A Comprehensive Analysis of the Literature. <i>Antioxidants</i> , 2020, 9, 1283.	5.1	31
33	Adipokines as a therapeutic target by metformin to improve metabolic function: A systematic review of randomized controlled trials. <i>Pharmacological Research</i> , 2021, 163, 105219.	7.1	31
34	Phenylpropenoic acid glucoside augments pancreatic beta cell mass in high-fat diet-fed mice and protects beta cells from ER stress-induced apoptosis. <i>Molecular Nutrition and Food Research</i> , 2014, 58, 1980-1990.	3.3	30
35	Aspalathin, a natural product with the potential to reverse hepatic insulin resistance by improving energy metabolism and mitochondrial respiration. <i>PLoS ONE</i> , 2019, 14, e0216172.	2.5	30
36	Coenzyme Q10 Supplementation Improves Adipokine Levels and Alleviates Inflammation and Lipid Peroxidation in Conditions of Metabolic Syndrome: A Meta-Analysis of Randomized Controlled Trials. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3247.	4.1	30

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37	Inhibitory Interactions of <i>Aspalathus linearis</i> (Rooibos) Extracts and Compounds, Aspalathin and Z-2-( $\beta$ -D-Glucopyranosyloxy)-3-phenylpropenoic Acid, on Cytochromes Metabolizing Hypoglycemic and Hypolipidemic Drugs. <i>Molecules</i> , 2016, 21, 1515.	3.8	29
38	Assessing similarity analysis of chromatographic fingerprints of <i>Cyclopia subternata</i> extracts as potential screening tool for in vitro glucose utilisation. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 639-649.	3.7	29
39	THE NON-HUMAN PRIMATE ENDOCRINE PANCREAS: DEVELOPMENT, REGENERATION POTENTIAL AND METAPLASIA. <i>Cell Biology International</i> , 1996, 20, 95-101.	3.0	28
40	Z-2-( $\beta$ -D-Glucopyranosyloxy)-3-phenylpropenoic acid, an $\alpha$ -hydroxy acid from rooibos ( <i>Aspalathus linearis</i> ) with hypoglycemic activity. <i>Molecular Nutrition and Food Research</i> , 2013, 57, 2216-2222.	3.3	28
41	Intestinal Barrier Function and Immune Homeostasis Are Missing Links in Obesity and Type 2 Diabetes Development. <i>Frontiers in Endocrinology</i> , 2021, 12, 833544.	3.5	28
42	Regulating the Beta Cell Mass as a Strategy for Type-2 Diabetes Treatment. <i>Current Drug Targets</i> , 2015, 16, 516-524.	2.1	26
43	Altered Genome-Wide DNA Methylation in Peripheral Blood of South African Women with Gestational Diabetes Mellitus. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5828.	4.1	25
44	Aqueous Extract of Unfermented Honeybush ( <i>Cyclopia maculata</i> ) Attenuates STZ-induced Diabetes and $\beta$ -cell Cytotoxicity. <i>Planta Medica</i> , 2014, 80, 622-629.	1.3	24
45	Uncoupling proteins as a therapeutic target to protect the diabetic heart. <i>Pharmacological Research</i> , 2018, 137, 11-24.	7.1	24
46	Adipose tissue as a possible therapeutic target for polyphenols: A case for <i>Cyclopia</i> extracts as anti-obesity nutraceuticals. <i>Biomedicine and Pharmacotherapy</i> , 2019, 120, 109439.	5.6	24
47	Aspalathin ameliorates doxorubicin-induced oxidative stress in H9c2 cardiomyoblasts. <i>Toxicology in Vitro</i> , 2019, 55, 134-139.	2.4	24
48	The impact of coenzyme Q <sub>10</sub> on metabolic and cardiovascular disease profiles in diabetic patients: A systematic review and meta-analysis of randomized controlled trials. <i>Endocrinology, Diabetes and Metabolism</i> , 2020, 3, e00118.	2.4	24
49	Metformin and heart failure-related outcomes in patients with or without diabetes: a systematic review of randomized controlled trials. <i>Heart Failure Reviews</i> , 2021, 26, 1437-1445.	3.9	23
50	Protective effect of triterpenes against diabetes-induced $\beta$ -cell damage: An overview of in vitro and in vivo studies. <i>Pharmacological Research</i> , 2018, 137, 179-192.	7.1	22
51	Aspalathin-Rich Green Rooibos Extract Lowers LDL-Cholesterol and Oxidative Status in High-Fat Diet-Induced Diabetic Vervet Monkeys. <i>Molecules</i> , 2019, 24, 1713.	3.8	22
52	High Fat Programming Induces Glucose Intolerance in Weanling Wistar Rats. <i>Hormone and Metabolic Research</i> , 2010, 42, 307-310.	1.5	21
53	N-Acetyl cysteine ameliorates hyperglycemia-induced cardiomyocyte toxicity by improving mitochondrial energetics and enhancing endogenous Coenzyme Q9/10 levels. <i>Toxicology Reports</i> , 2019, 6, 1240-1245.	3.3	21
54	Exploring the Comparative Efficacy of Metformin and Resveratrol in the Management of Diabetes-Associated Complications: A Systematic Review of Preclinical Studies. <i>Nutrients</i> , 2020, 12, 739.	4.1	21

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55	Phenylpyruvic Acid-2-O- $\beta$ -D-Glucoside Attenuates High Glucose-Induced Apoptosis in H9c2 Cardiomyocytes. <i>Planta Medica</i> , 2016, 82, 1468-1474.	1.3	20
56	A polyphenol-enriched fraction of <i>Cyclopia intermedia</i> decreases lipid content in 3T3-L1 adipocytes and reduces body weight gain of obese db/db mice. <i>South African Journal of Botany</i> , 2017, 110, 216-229.	2.5	20
57	A Meta-Analysis of the Impact of Resveratrol Supplementation on Markers of Renal Function and Blood Pressure in Type 2 Diabetic Patients on Hypoglycemic Therapy. <i>Molecules</i> , 2020, 25, 5645.	3.8	18
58	<i>Cyclopia maculata</i> (honeybush tea) stimulates lipolysis in 3T3-L1 adipocytes. <i>Phytomedicine</i> , 2013, 20, 1168-1171.	5.3	17
59	Expression of UCP2 in Wistar rats varies according to age and the severity of obesity. <i>Journal of Physiology and Biochemistry</i> , 2016, 72, 25-32.	3.0	17
60	Tea consumption and its effects on primary and secondary prevention of coronary artery disease: Qualitative synthesis of evidence from randomized controlled trials. <i>Clinical Nutrition ESPEN</i> , 2021, 41, 77-87.	1.2	15
61	A toxicological assessment of <i>Athrixia phylicoides</i> aqueous extract following sub-chronic ingestion in a rat model. <i>Human and Experimental Toxicology</i> , 2008, 27, 819-825.	2.2	14
62	Gestational 30% and 40% fat diets increase brain GLUT2 and neuropeptide Y immunoreactivity in neonatal Wistar rats. <i>International Journal of Developmental Neuroscience</i> , 2010, 28, 625-630.	1.6	14
63	Polyphenol-Enriched Fractions of <i>Cyclopia intermedia</i> Selectively Affect Lipogenesis and Lipolysis in 3T3-L1 Adipocytes. <i>Planta Medica</i> , 2018, 84, 100-110.	1.3	14
64	Diet-induced DNA methylation within the hypothalamic arcuate nucleus and dysregulated leptin and insulin signaling in the pathophysiology of obesity. <i>Food Science and Nutrition</i> , 2019, 7, 3131-3145.	3.4	14
65	Global DNA methylation profiling in peripheral blood cells of South African women with gestational diabetes mellitus. <i>Biomarkers</i> , 2019, 24, 225-231.	1.9	14
66	Transcription factors, pancreatic development, and $\beta$ -cell maintenance. <i>Biochemical and Biophysical Research Communications</i> , 2005, 326, 699-702.	2.1	13
67	Decreased global DNA methylation in the white blood cells of high fat diet fed vervet monkeys ( <i>Chlorocebus aethiops</i> ). <i>Journal of Physiology and Biochemistry</i> , 2014, 70, 725-733.	3.0	13
68	Pharmacogenomics of amlodipine and hydrochlorothiazide therapy and the quest for improved control of hypertension: a mini review. <i>Heart Failure Reviews</i> , 2019, 24, 343-357.	3.9	13
69	Isoorientin ameliorates lipid accumulation by regulating fat browning in palmitate-exposed 3T3-L1 adipocytes. <i>Metabolism Open</i> , 2020, 6, 100037.	2.9	13
70	Impact of Isoorientin on Metabolic Activity and Lipid Accumulation in Differentiated Adipocytes. <i>Molecules</i> , 2020, 25, 1773.	3.8	13
71	The Combination Effect of Aspalathin and Phenylpyruvic Acid-2-O- $\beta$ -d-glucoside from Rooibos against Hyperglycemia-Induced Cardiac Damage: An In Vitro Study. <i>Nutrients</i> , 2020, 12, 1151.	4.1	13
72	An in vitro assessment of the effect of <i>Athrixia phylicoides</i> DC. aqueous extract on glucose metabolism. <i>Phytomedicine</i> , 2012, 19, 730-736.	5.3	12

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73	High Fat Diet Exposure during Fetal Life Enhances Plasma and Hepatic Omega-6 Fatty Acid Profiles in Fetal Wistar Rats. <i>Nutrients</i> , 2015, 7, 7231-7241.	4.1	12
74	Intestinal transport and absorption of bioactive phenolic compounds from a chemically characterized aqueous extract of <i>Athrixia phylicoides</i> . <i>Journal of Ethnopharmacology</i> , 2017, 200, 45-50.	4.1	12
75	Age-dependent development of left ventricular wall thickness in type 2 diabetic (db/db) mice is associated with elevated low-density lipoprotein and triglyceride serum levels. <i>Heart and Vessels</i> , 2017, 32, 1025-1031.	1.2	12
76	Intestinal Transport Characteristics and Metabolism of C-Glucosyl Dihydrochalcone, Aspalathin. <i>Molecules</i> , 2017, 22, 554.	3.8	12
77	MicroRNA Expression Varies according to Glucose Tolerance, Measurement Platform, and Biological Source. <i>BioMed Research International</i> , 2017, 2017, 1-10.	1.9	12
78	Pharmacokinetic Interaction of Green Rooibos Extract With Atorvastatin and Metformin in Rats. <i>Frontiers in Pharmacology</i> , 2019, 10, 1243.	3.5	12
79	Elevated T-helper 2 cytokine levels in high fat diet-fed C57BL/6 mice are attenuated by short-term 6-week treatment with a combination of low-dose aspirin and metformin. <i>Cytokine</i> , 2020, 128, 154999.	3.2	12
80	Fermented rooibos extract attenuates hyperglycemia-induced myocardial oxidative damage by improving mitochondrial energetics and intracellular antioxidant capacity. <i>South African Journal of Botany</i> , 2020, 131, 143-150.	2.5	12
81	Development, differentiation, and regeneration potential of the Vervet monkey endocrine pancreas. , 1998, 43, 322-331.		11
82	Molecular basis of the anti-hyperglycemic activity of RA-3 in hyperlipidemic and streptozotocin-induced type 2 diabetes in rats. <i>Diabetology and Metabolic Syndrome</i> , 2019, 11, 27.	2.7	11
83	Preliminary observations on the co-existence of regulatory peptides in cells of the baboon endocrine pancreas. <i>Experientia</i> , 1988, 44, 238-240.	1.2	10
84	DNA methylation of FKBP5 in South African women: associations with obesity and insulin resistance. <i>Clinical Epigenetics</i> , 2020, 12, 141.	4.1	10
85	Human whole genome sequencing in South Africa. <i>Scientific Reports</i> , 2021, 11, 606.	3.3	10
86	Islet cell response to high fat programming in neonate, weanling and adolescent Wistar rats. <i>JOP: Journal of the Pancreas</i> , 2014, 15, 228-36.	1.5	10
87	Distribution of endocrine cells displaying immunoreactivity for one or more peptides in the pancreas of the adult Vervet monkey ( <i>Cercopithecus aethiops</i> ). , 1997, 247, 405-412.		9
88	Foetal rat pancreatic transplantation: posttransplantation development of foetal pancreatic iso- and allografts and suppression of rejection with mycophenolate mofetil (MMF) and cyclosporine based immunosuppression. <i>Microscopy Research and Technique</i> , 1998, 43, 347-355.	2.2	9
89	An In Vitro Study on the Combination Effect of Metformin and N-Acetyl Cysteine against Hyperglycaemia-Induced Cardiac Damage. <i>Nutrients</i> , 2019, 11, 2850.	4.1	9
90	Identification of potential biomarkers for predicting the early onset of diabetic cardiomyopathy in a mouse model. <i>Scientific Reports</i> , 2020, 10, 12352.	3.3	9

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91	Palmitate-induced toxicity is associated with impaired mitochondrial respiration and accelerated oxidative stress in cultured cardiomyocytes: The critical role of coenzyme Q9/10. <i>Toxicology in Vitro</i> , 2020, 68, 104948.	2.4	8
92	Effect of Rooibos ( <i>Aspalathus linearis</i> ) extract on atorvastatin-induced toxicity in C3A liver cells. <i>Journal of Cellular Physiology</i> , 2020, 235, 9487-9496.	4.1	8
93	In Utero One-Carbon Metabolism Interplay and Metabolic Syndrome in Cardiovascular Disease Risk Reduction. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e1900377.	3.3	7
94	Ethnic and Adipose Depot Specific Associations Between DNA Methylation and Metabolic Risk. <i>Frontiers in Genetics</i> , 2020, 11, 967.	2.3	7
95	The Role of Glucose and Fatty Acid Metabolism in the Development of Insulin Resistance in Skeletal Muscle. , 0, , .		6
96	Non-communicable diseases – a catastrophe for South Africa. <i>South African Journal of Science</i> , 2021, 117, .	0.7	6
97	Development of Glucose Intolerance in Wistar Rats Fed Low and Moderate Fat Diets Differing in Fatty Acid Profile. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2010, 118, 434-441.	1.2	5
98	The effect of diet on the Vervet monkey endocrine pancreas. <i>Journal of Medical Primatology</i> , 1997, 26, 307-311.	0.6	4
99	Induction of Cell Proliferation and Differentiation in the Pancreas of the Adult Vervet Monkey ( <i>Cercopithecus aethiops</i> ). <i>Pancreas</i> , 1998, 16, 129-133.	1.1	4
100	BRIEF OCCLUSION OF THE MAIN PANCREATIC DUCT RAPIDLY INITIATES SIGNALS WHICH LEAD TO INCREASED DUCT CELL PROLIFERATION IN THE RAT. <i>Cell Biology International</i> , 2001, 25, 113-117.	3.0	4
101	A Lanosteryl triterpene from <i>Protorhus longifolia</i> augments insulin signaling in type 1 diabetic rats. <i>BMC Complementary and Alternative Medicine</i> , 2018, 18, 265.	3.7	4
102	Herbal supplements interactions with oral oestrogen-based contraceptive metabolism and transport. <i>Phytotherapy Research</i> , 2020, 34, 1519-1529.	5.8	4
103	Therapeutic effects of an aspalathin-rich green rooibos extract, pioglitazone and atorvastatin combination therapy in diabetic db/db mice. <i>PLoS ONE</i> , 2021, 16, e0251069.	2.5	4
104	Endometrial function in vervet monkeys ( <i>Cercopithecus aethiops</i> ): morphology, beta3 integrin and insulin-like growth factor binding protein-1 expression during the menstrual cycle and pregnancy in the normal and disrupted endometrium. <i>Journal of Medical Primatology</i> , 2002, 31, 330-339.	0.6	3
105	Green Rooibos Extract improves plasma lipid profile and oxidative status in diabetic non-human primates. <i>Free Radical Biology and Medicine</i> , 2017, 108, S97.	2.9	3
106	Altered microRNA expression during Impaired Glucose Tolerance and High-fat Diet Feeding. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2019, 127, 524-532.	1.2	3
107	Skeletal Muscle as a Therapeutic Target for Natural Products to Reverse Metabolic Syndrome. , 2018, , .		2
108	The impact of dimethyl sulfoxide on oxidative stress and cytotoxicity in various experimental models. , 2021, , 243-261.		2

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109	Maternal Gestational Dietary Fat has Minimal Effects on Serum Lipid Profiles and Hepatic Glucose Transporter 2 and No Effect on Glucokinase Expression in Neonatal Wistar Rat Offspring. International Journal of Biomedical Science, 2011, 7, 209-17.	0.1	2
110	Popular three-dimensional models: Advantages for cancer, Alzheimer's and cardiovascular diseases. Tissue and Cell, 2020, 65, 101367.	2.2	1
111	Introduction to endocrine pancreas organogenesis and neogenesis. Microscopy Research and Technique, 1998, 43, 283-283.	2.2	0