Johan Louw

List of Publications by Year
in descending order

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111	3,498	168829	198040
papers	citations	31 h-index	52 g-index

114	114	114	4525
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metformin and heart failureâ€“related outcomes in patients with or without diabetes: a systematic review of randomized controlled trials. Heart Failure Reviews, 2021, 26, 1437-1445.	1.7	23
2	Adipokines as a therapeutic target by metformin to improve metabolic function: A systematic review of randomized controlled trials. Pharmacological Research, 2021, 163, 105219.	3.1	31
3	Tea consumption and its effects on primary and secondary prevention of coronary artery disease: Qualitative synthesis of evidence from randomized controlled trials. Clinical Nutrition ESPEN, 2021, 41, 77-87.	0.5	15
4	Human whole genome sequencing in South Africa. Scientific Reports, 2021, 11, 606.	1.6	10
5	The impact of dimethyl sulfoxide on oxidative stress and cytotoxicity in various experimental models. , 2021, , 243-261.		2
6	Therapeutic effects of an aspalathin-rich green rooibos extract, pioglitazone and atorvastatin combination therapy in diabetic db/db mice. PLoS ONE, 2021, 16, e0251069.	1.1	4
7	Non-communicable diseases â€“ a catastrophe for South Africa. South African Journal of Science, 2021, 117, .	0.3	6
8	Intestinal Barrier Function and Immune Homeostasis Are Missing Links in Obesity and Type 2 Diabetes Development. Frontiers in Endocrinology, 2021, 12, 833544.	1.5	28
9	In Utero Oneâ€Carbon Metabolism Interplay and Metabolic Syndrome in Cardiovascular Disease Risk Reduction. Molecular Nutrition and Food Research, 2020, 64, e1900377.	1.5	7
10	A systematic review on the functional role of Th1/Th2 cytokines in type 2 diabetes and related metabolic complications. Cytokine, 2020, 126, 154892.	1.4	57
11	Ethnic and Adipose Depot Specific Associations Between DNA Methylation and Metabolic Risk. Frontiers in Genetics, 2020, 11, 967.	1.1	7
12	Palmitate-induced toxicity is associated with impaired mitochondrial respiration and accelerated oxidative stress in cultured cardiomyocytes: The critical role of coenzyme Q9/10. Toxicology in Vitro, 2020, 68, 104948.	1.1	8
13	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. Molecules, 2020, 25, 5645.	1.7	18
14	Identification of potential biomarkers for predicting the early onset of diabetic cardiomyopathy in a mouse model. Scientific Reports, 2020, 10, 12352.	1.6	9
15	DNA methylation of FKBP5 in South African women: associations with obesity and insulin resistance. Clinical Epigenetics, 2020, 12, 141.	1.8	10
16	N-Acetyl Cysteine Targets Hepatic Lipid Accumulation to Curb Oxidative Stress and Inflammation in NAFLD: A Comprehensive Analysis of the Literature. Antioxidants, 2020, 9, 1283.	2.2	31
17	Coenzyme Q10 Supplementation Improves Adipokine Levels and Alleviates Inflammation and Lipid Peroxidation in Conditions of Metabolic Syndrome: A Meta-Analysis of Randomized Controlled Trials. International Journal of Molecular Sciences, 2020, 21, 3247.	1.8	30
18	Isoorientin: A dietary flavone with the potential to ameliorate diverse metabolic complications. Pharmacological Research, 2020, 158, 104867.	3.1	44

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19	Effect of Rooibos (Aspalathus linearis) extract on atorvastatinâ€induced toxicity in C3A liver cells. Journal of Cellular Physiology, 2020, 235, 9487-9496.	2.0	8
20	Popular three-dimensional models: Advantages for cancer, Alzheimerâ€™s and cardiovascular diseases. Tissue and Cell, 2020, 65, 101367.	1.0	1
21	Isoorientin ameliorates lipid accumulation by regulating fat browning in palmitate-exposed 3T3-L1 adipocytes. Metabolism Open, 2020, 6, 100037.	1.4	13
22	Exploring the Comparative Efficacy of Metformin and Resveratrol in the Management of Diabetes-Associated Complications: A Systematic Review of Preclinical Studies. Nutrients, 2020, 12, 739.	1.7	21
23	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. Cytokine, 2020, 128, 154999.	1.4	12
24	Fermented rooibos extract attenuates hyperglycemia-induced myocardial oxidative damage by improving mitochondrial energetics and intracellular antioxidant capacity. South African Journal of Botany, 2020, 131, 143-150.	1.2	12
25	Herbal supplements interactions with oral oestrogenâ€based contraceptive metabolism and transport. Phytotherapy Research, 2020, 34, 1519-1529.	2.8	4
26	Impact of Isoorientin on Metabolic Activity and Lipid Accumulation in Differentiated Adipocytes. Molecules, 2020, 25, 1773.	1.7	13
27	The Combination Effect of Aspalathin and Phenylpyruvic Acid-2-O-Î²-d-glucoside from Rooibos against Hyperglycemia-Induced Cardiac Damage: An In Vitro Study. Nutrients, 2020, 12, 1151.	1.7	13
28	The impact of coenzyme Q₁₀ on metabolic and cardiovascular disease profiles in diabetic patients: A systematic review and metaâ€analysis of randomized controlled trials. Endocrinology, Diabetes and Metabolism, 2020, 3, e00118.	1.0	24
29	Altered microRNA expression during Impaired Glucose Tolerance and High-fat Diet Feeding. Experimental and Clinical Endocrinology and Diabetes, 2019, 127, 524-532.	0.6	3
30	The beneficial effects of N-acetyl cysteine (NAC) against obesity associated complications: A systematic review of pre-clinical studies. Pharmacological Research, 2019, 146, 104332.	3.1	39
31	Diet-induced hypothalamic dysfunction and metabolic disease, and the therapeutic potential of polyphenols. Molecular Metabolism, 2019, 27, 1-10.	3.0	34
32	Dietâ€induced DNA methylation within the hypothalamic arcuate nucleus and dysregulated leptin and insulin signaling in the pathophysiology of obesity. Food Science and Nutrition, 2019, 7, 3131-3145.	1.5	14
33	Pharmacokinetic Interaction of Green Rooibos Extract With Atorvastatin and Metformin in Rats. Frontiers in Pharmacology, 2019, 10, 1243.	1.6	12
34	Adipose tissue as a possible therapeutic target for polyphenols: A case for Cyclopia extracts as anti-obesity nutraceuticals. Biomedicine and Pharmacotherapy, 2019, 120, 109439.	2.5	24
35	Aspalathin-Enriched Green Rooibos Extract Reduces Hepatic Insulin Resistance by Modulating PI3K/AKT and AMPK Pathways. International Journal of Molecular Sciences, 2019, 20, 633.	1.8	56
36	Aspalathin, a natural product with the potential to reverse hepatic insulin resistance by improving energy metabolism and mitochondrial respiration. PLoS ONE, 2019, 14, e0216172.	1.1	30

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37	Aspalathin-Rich Green Rooibos Extract Lowers LDL-Cholesterol and Oxidative Status in High-Fat Diet-Induced Diabetic Vervet Monkeys. Molecules, 2019, 24, 1713.	1.7	22
38	Molecular basis of the anti-hyperglycemic activity of RA-3 in hyperlipidemic and streptozotocin-induced type 2 diabetes in rats. Diabetology and Metabolic Syndrome, 2019, 11, 27.	1.2	11
39	An In Vitro Study on the Combination Effect of Metformin and N-Acetyl Cysteine against Hyperglycaemia-Induced Cardiac Damage. Nutrients, 2019, 11, 2850.	1.7	9
40	Altered Genome-Wide DNA Methylation in Peripheral Blood of South African Women with Gestational Diabetes Mellitus. International Journal of Molecular Sciences, 2019, 20, 5828.	1.8	25
41	N-Acetyl cysteine ameliorates hyperglycemia-induced cardiomyocyte toxicity by improving mitochondrial energetics and enhancing endogenous Coenzyme Q9/10 levels. Toxicology Reports, 2019, 6, 1240-1245.	1.6	21
42	Inflammation and Oxidative Stress in an Obese State and the Protective Effects of Gallic Acid. Nutrients, 2019, 11, 23.	1.7	180
43	Aspalathin ameliorates doxorubicin-induced oxidative stress in H9c2 cardiomyoblasts. Toxicology in Vitro, 2019, 55, 134-139.	1.1	24
44	Pharmacogenomics of amlodipine and hydrochlorothiazide therapy and the quest for improved control of hypertension: a mini review. Heart Failure Reviews, 2019, 24, 343-357.	1.7	13
45	Global DNA methylation profiling in peripheral blood cells of South African women with gestational diabetes mellitus. Biomarkers, 2019, 24, 225-231.	0.9	14
46	A Systematic Review on the Protective Effect of N-Acetyl Cysteine Against Diabetes-Associated Cardiovascular Complications. American Journal of Cardiovascular Drugs, 2018, 18, 283-298.	1.0	50
47	Critical evaluation of causality assessment of herbâ€“drug interactions in patients. British Journal of Clinical Pharmacology, 2018, 84, 679-693.	1.1	101
48	Polyphenol-Enriched Fractions of Cyclopia intermedia Selectively Affect Lipogenesis and Lipolysis in 3T3-L1 Adipocytes. Planta Medica, 2018, 84, 100-110.	0.7	14
49	Skeletal Muscle as a Therapeutic Target for Natural Products to Reverse Metabolic Syndrome. , 2018, , .		2
50	Blood-Based DNA Methylation Biomarkers for Type 2 Diabetes: Potential for Clinical Applications. Frontiers in Endocrinology, 2018, 9, 744.	1.5	56
51	A Lanosteryl triterpene from Protorhus longifolia augments insulin signaling in type 1 diabetic rats. BMC Complementary and Alternative Medicine, 2018, 18, 265.	3.7	4
52	A dose-dependent effect of dimethyl sulfoxide on lipid content, cell viability and oxidative stress in 3T3-L1 adipocytes. Toxicology Reports, 2018, 5, 1014-1020.	1.6	60
53	Protective effect of triterpenes against diabetes-induced Î²-cell damage: An overview of in vitro and in vivo studies. Pharmacological Research, 2018, 137, 179-192.	3.1	22
54	Uncoupling proteins as a therapeutic target to protect the diabetic heart. Pharmacological Research, 2018, 137, 11-24.	3.1	24

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55	Intestinal transport and absorption of bioactive phenolic compounds from a chemically characterized aqueous extract of Athrixia phylicoides. Journal of Ethnopharmacology, 2017, 200, 45-50.	2.0	12
56	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. Heart and Vessels, 2017, 32, 1025-1031.	0.5	12
57	Polyphenols, autophagy and doxorubicin-induced cardiotoxicity. Life Sciences, 2017, 180, 160-170.	2.0	105
58	Green Rooibos Extract improves plasma lipid profile and oxidative status in diabetic non-human primates. Free Radical Biology and Medicine, 2017, 108, S97.	1.3	3
59	A polyphenol-enriched fraction of Cyclopia intermedia decreases lipid content in 3T3-L1 adipocytes and reduces body weight gain of obese db/db mice. South African Journal of Botany, 2017, 110, 216-229.	1.2	20
60	Aspalathin Reverts Doxorubicin-Induced Cardiotoxicity through Increased Autophagy and Decreased Expression of p53/mTOR/p62 Signaling. Molecules, 2017, 22, 1589.	1.7	45
61	The Transcription Profile Unveils the Cardioprotective Effect of Aspalathin against Lipid Toxicity in an In Vitro H9c2 Model. Molecules, 2017, 22, 219.	1.7	40
62	Intestinal Transport Characteristics and Metabolism of C-Glucosyl Dihydrochalcone, Aspalathin. Molecules, 2017, 22, 554.	1.7	12
63	MicroRNA Expression Varies according to Glucose Tolerance, Measurement Platform, and Biological Source. BioMed Research International, 2017, 2017, 1-10.	0.9	12
64	Aspalathin Protects the Heart against Hyperglycemia-Induced Oxidative Damage by Up-Regulating Nrf2 Expression. Molecules, 2017, 22, 129.	1.7	64
65	Hyperglycemia-induced oxidative stress and heart disease-cardioprotective effects of rooibos flavonoids and phenylpyruvic acid-2-O-Î²-D-glucoside. Nutrition and Metabolism, 2017, 14, 45.	1.3	78
66	Inhibitory Interactions of Aspalathus linearis (Rooibos) Extracts and Compounds, Aspalathin and Z-2-(Î²-d-Glucopyranosyloxy)-3-phenylpropenoic Acid, on Cytochromes Metabolizing Hypoglycemic and Hypolipidemic Drugs. Molecules, 2016, 21, 1515.	1.7	29
67	Phenylpyruvic Acid-2-O-Î²-D-Glucoside Attenuates High Glucose-Induced Apoptosis in H9c2 Cardiomyocytes. Planta Medica, 2016, 82, 1468-1474.	0.7	20
68	Aspalathin, a dihydrochalcone Câ€glucoside, protects H9c2 cardiomyocytes against high glucose induced shifts in substrate preference and apoptosis. Molecular Nutrition and Food Research, 2016, 60, 922-934.	1.5	70
69	Assessing similarity analysis of chromatographic fingerprints of Cyclopia subternata extracts as potential screening tool for in vitro glucose utilisation. Analytical and Bioanalytical Chemistry, 2016, 408, 639-649.	1.9	29
70	Expression of UCP2 in Wistar rats varies according to age and the severity of obesity. Journal of Physiology and Biochemistry, 2016, 72, 25-32.	1.3	17
71	Aspalathin improves glucose and lipid metabolism in 3T3âL1 adipocytes exposed to palmitate. Molecular Nutrition and Food Research, 2015, 59, 2199-2208.	1.5	60
72	High Fat Diet Exposure during Fetal Life Enhances Plasma and Hepatic Omega-6 Fatty Acid Profiles in Fetal Wistar Rats. Nutrients, 2015, 7, 7231-7241.	1.7	12

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73	Regulating the Beta Cell Mass as a Strategy for Type-2 Diabetes Treatment. Current Drug Targets, 2015, 16, 516-524.	1.0	26
74	Aqueous Extract of Unfermented Honeybush (Cyclopia maculata) Attenuates STZ-induced Diabetes and Î²-cell Cytotoxicity. Planta Medica, 2014, 80, 622-629.	0.7	24
75	Phenylpropenoic acid glucoside augments pancreatic beta cell mass in highâ€fat dietâ€fed mice and protects beta cells from <scp>ER</scp> stressâ€induced apoptosis. Molecular Nutrition and Food Research, 2014, 58, 1980-1990.	1.5	30
76	Decreased global DNA methylation in the white blood cells of high fat diet fed vervet monkeys (Chlorocebus aethiops). Journal of Physiology and Biochemistry, 2014, 70, 725-733.	1.3	13
77	The cardioprotective effect of an aqueous extract of fermented rooibos (Aspalathus linearis) on cultured cardiomyocytes derived from diabetic rats. Phytomedicine, 2014, 21, 595-601.	2.3	51
78	Effects of fermented rooibos (Aspalathus linearis) on adipocyte differentiation. Phytomedicine, 2014, 21, 109-117.	2.3	50
79	Islet cell response to high fat programming in neonate, weanling and adolescent Wistar rats. JOP: Journal of the Pancreas, 2014, 15, 228-36.	1.5	10
80	Cyclopia maculata (honeybush tea) stimulates lipolysis in 3T3-L1 adipocytes. Phytomedicine, 2013, 20, 1168-1171.	2.3	17
81	Cyclopia maculata and Cyclopia subternata (honeybush tea) inhibits adipogenesis in 3T3-L1 pre-adipocytes. Phytomedicine, 2013, 20, 401-408.	2.3	34
82	Amelioration of palmitate-induced insulin resistance in C2C12 muscle cells by rooibos (Aspalathus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.3	77
83	Zâ€2â€(Î²â€<scp>d</scp>â€glucopyranosyloxy)â€3â€phenylpropenoic acid, an Î±â€hydroxy acid from rooibos (<scp>A</scp>spalathus linearis) with hypoglycemic activity. Molecular Nutrition and Food Research, 2013, 57, 2216-2222.	1.5	28
84	High-Fat Programming of Hyperglycemia, Hyperinsulinemia, Insulin Resistance, Hyperleptinemia, and Altered Islet Architecture in 3-Month-Old Wistar Rats. Isrn Endocrinology, 2012, 2012, 1-8.	2.0	37
85	Acute assessment of an aspalathin-enriched green rooibos (Aspalathus linearis) extract with hypoglycemic potential. Phytomedicine, 2012, 20, 32-39.	2.3	87
86	An in vitro assessment of the effect of Athrixia phylicoides DC. aqueous extract on glucose metabolism. Phytomedicine, 2012, 19, 730-736.	2.3	12
87	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.	0.5	2
88	High Fat Programming Induces Glucose Intolerance in Weanling Wistar Rats. Hormone and Metabolic Research, 2010, 42, 307-310.	0.7	21
89	Development of Glucose Intolerance in Wistar Rats Fed Low and Moderate Fat Diets Differing in Fatty Acid Profile. Experimental and Clinical Endocrinology and Diabetes, 2010, 118, 434-441.	0.6	5
90	Gestational 30% and 40% fat diets increase brain GLUT2 and neuropeptide Y immunoreactivity in neonatal Wistar rats. International Journal of Developmental Neuroscience, 2010, 28, 625-630.	0.7	14

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91	Gestational high-fat programming impairs insulin release and reduces Pdx-1 and glucokinase immunoreactivity in neonatal Wistar rats. Metabolism: Clinical and Experimental, 2009, 58, 1787-1792.	1.5	38
92	Hypoglycaemic activity of four plant extracts traditionally used in South Africa for diabetes. Journal of Ethnopharmacology, 2009, 124, 619-624.	2.0	89
93	Antidiabetic screening and scoring of 11 plants traditionally used in South Africa. Journal of Ethnopharmacology, 2008, 119, 81-86.	2.0	132
94	A toxicological assessment of Athrixia phylicoides aqueous extract following sub-chronic ingestion in a rat model. Human and Experimental Toxicology, 2008, 27, 819-825.	1.1	14
95	Compromised Î²-Cell Development and Î²-Cell Dysfunction in Weanling Offspring From Dams Maintained on a High-Fat Diet During Gestation. Pancreas, 2007, 34, 347-353.	0.5	34
96	Anti-diabetic effects of Sutherlandia frutescens in Wistar rats fed a diabetogenic diet. Journal of Ethnopharmacology, 2007, 109, 121-127.	2.0	59
97	Prenatal dexamethasone exposure induces changes in nonhuman primate offspring cardiometabolic and hypothalamic-pituitary-adrenal axis function. Journal of Clinical Investigation, 2007, 117, 1058-1067.	3.9	201
98	Hyperglycaemia and reduced glucokinase expression in weanling offspring from dams maintained on a high-fat diet. British Journal of Nutrition, 2006, 95, 391-396.	1.2	49
99	Islet cell response in the neonatal rat after exposure to a high-fat diet during pregnancy. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R1122-R1128.	0.9	86
100	Transcription factors, pancreatic development, and Î²-cell maintenance. Biochemical and Biophysical Research Communications, 2005, 326, 699-702.	1.0	13
101	Endometrial function in vervet monkeys (Cercopithecus aethiops): morphology, beta3 integrin and insulin-like growth factor binding protein-1 expression during the menstrual cycle and pregnancy in the normal and disrupted endometrium. Journal of Medical Primatology, 2002, 31, 330-339.	0.3	3
102	BRIEF OCCLUSION OF THE MAIN PANCREATIC DUCT RAPIDLY INITIATES SIGNALS WHICH LEAD TO INCREASED DUCT CELL PROLIFERATION IN THE RAT. Cell Biology International, 2001, 25, 113-117.	1.4	4
103	Introduction to endocrine pancreas organogenesis and neogenesis. Microscopy Research and Technique, 1998, 43, 283-283.	1.2	0
104	Development, differentiation, and regeneration potential of the Vervet monkey endocrine pancreas. , 1998, 43, 322-331.		11
105	Foetal rat pancreatic transplantation: posttransplantation development of foetal pancreatic iso- and allografts and suppression of rejection with mycophenolate mofetil (MMF) and cyclosporine based immunesuppression. Microscopy Research and Technique, 1998, 43, 347-355.	1.2	9
106	Induction of Cell Proliferation and Differentiation in the Pancreas of the Adult Vervet Monkey (Cercopithecus aethiops). Pancreas, 1998, 16, 129-133.	0.5	4
107	The effect of diet on the Vervet monkey endocrine pancreas. Journal of Medical Primatology, 1997, 26, 307-311.	0.3	4
108	Distribution of endocrine cells displaying immunoreactivity for one or more peptides in the pancreas of the adult Vervet monkey (Cercopithecus aethiops). , 1997, 247, 405-412.		9

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109	THE NON-HUMAN PRIMATE ENDOCRINE PANCREAS: DEVELOPMENT, REGENERATION POTENTIAL AND METAPLASIA. Cell Biology International, 1996, 20, 95-101.	1.4	28
110	Preliminary observations on the co-existence of regulatory peptides in cells of the baboon endocrine pancreas. Experientia, 1988, 44, 238-240.	1.2	10
111	The Role of Glucose and Fatty Acid Metabolism in the Development of Insulin Resistance in Skeletal Muscle. , 0, , .		6