Christo Muller

List of Publications by Year
in descending order

87	2,383	201674	243625
papers	citations	27 h-index	44 g-index

90	90	90	2395
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Anatomical and Pathological Considerations in Percutaneous Vertebroplasty and Kyphoplasty: A Reappraisal of the Vertebral Venous System. Spine, 2004, 29, 1465-1471.	2.0	146
2	The sensory branch distribution of the suprascapular nerve: An anatomic study. Journal of Shoulder and Elbow Surgery, 2008, 17, 500-502.	2.6	139
3	Critical evaluation of causality assessment of herbâ€“drug interactions in patients. British Journal of Clinical Pharmacology, 2018, 84, 679-693.	2.4	101
4	Acute assessment of an aspalathin-enriched green rooibos (Aspalathus linearis) extract with hypoglycemic potential. Phytomedicine, 2012, 20, 32-39.	5.3	87
5	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.	3.0	78
6	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.	3.3	70
7	Direct intracellular nitric oxide detection in isolated adult cardiomyocytes: flow cytometric analysis using the fluorescent probe, diaminofluorescein. Journal of Molecular and Cellular Cardiology, 2004, 37, 897-902.	1.9	68
8	Aspalathin Protects the Heart against Hyperglycemia-Induced Oxidative Damage by Up-Regulating Nrf2 Expression. Molecules, 2017, 22, 129.	3.8	64
9	Aspalathin improves glucose and lipid metabolism in 3T3â€L1 adipocytes exposed to palmitate. Molecular Nutrition and Food Research, 2015, 59, 2199-2208.	3.3	60
10	Potential of rooibos, its majorC-glucosyl flavonoids, andZ-2-(Î²-D-glucopyranosyloxy)-3-phenylpropenoic acid in prevention of metabolic syndrome. Critical Reviews in Food Science and Nutrition, 2018, 58, 227-246.	10.3	60
11	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.	3.3	60
12	Aspalathin from Rooibos (Aspalathus linearis): A Bioactive C-glucosyl Dihydrochalcone with Potential to Target the Metabolic Syndrome. Planta Medica, 2018, 84, 568-583.	1.3	56
13	Aspalathin-Enriched Green Rooibos Extract Reduces Hepatic Insulin Resistance by Modulating PI3K/AKT and AMPK Pathways. International Journal of Molecular Sciences, 2019, 20, 633.	4.1	56
14	Benzophenone C- and O-Glucosides from Cyclopia genistoides (Honeybush) Inhibit Mammalian Î±-Glucosidase. Journal of Natural Products, 2014, 77, 2694-2699.	3.0	53
15	Myocardial susceptibility to ischemic-reperfusion injury in a prediabetic model of dietary-induced obesity. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H2336-H2343.	3.2	52
16	Synthesis, characterization, and insulin-enhancing studies of unsymmetrical tetradentate Schiff-base complexes of oxovanadium(IV). Journal of Coordination Chemistry, 2009, 62, 3411-3424.	2.2	52
17	Effects of fermented rooibos (Aspalathus linearis) on adipocyte differentiation. Phytomedicine, 2014, 21, 109-117.	5.3	50
18	Aspalathin Reverts Doxorubicin-Induced Cardiotoxicity through Increased Autophagy and Decreased Expression of p53/mTOR/p62 Signaling. Molecules, 2017, 22, 1589.	3.8	45

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19	Isoorientin: A dietary flavone with the potential to ameliorate diverse metabolic complications. Pharmacological Research, 2020, 158, 104867.	7.1	44
20	Herbal hepatotoxicity: current status, examples, and challenges. Expert Opinion on Drug Metabolism and Toxicology, 2015, 11, 1551-1565.	3.3	41
21	The Transcription Profile Unveils the Cardioprotective Effect of Aspalathin against Lipid Toxicity in an In Vitro H9c2 Model. Molecules, 2017, 22, 219.	3.8	40
22	Cyclopia maculata and Cyclopia subternata (honeybush tea) inhibits adipogenesis in 3T3-L1 pre-adipocytes. Phytomedicine, 2013, 20, 401-408.	5.3	34
23	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.	3.3	30
24	Aspalathin, a natural product with the potential to reverse hepatic insulin resistance by improving energy metabolism and mitochondrial respiration. PLoS ONE, 2019, 14, e0216172.	2.5	30
25	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.	4.1	30
26	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.	3.8	29
27	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.	3.7	29
28	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.	3.3	28
29	Intestinal Barrier Function and Immune Homeostasis Are Missing Links in Obesity and Type 2 Diabetes Development. Frontiers in Endocrinology, 2021, 12, 833544.	3.5	28
30	Beta Cell Mass Restoration in Alloxan-Diabetic Mice Treated with EGF and Gastrin. PLoS ONE, 2015, 10, e0140148.	2.5	27
31	Aspalathin Protects Insulinâ€Producing Î² Cells against Glucotoxicity and Oxidative Stressâ€Induced Cell Death. Molecular Nutrition and Food Research, 2020, 64, e1901009.	3.3	26
32	Prevalence of Hypertension and Its Associated Risk Factors in a Rural Black Population of Mthatha Town, South Africa. International Journal of Environmental Research and Public Health, 2021, 18, 1215.	2.6	26
33	Regulating the Beta Cell Mass as a Strategy for Type-2 Diabetes Treatment. Current Drug Targets, 2015, 16, 516-524.	2.1	26
34	Aqueous Extract of Unfermented Honeybush (Cyclopia maculata) Attenuates STZ-induced Diabetes and Î²-cell Cytotoxicity. Planta Medica, 2014, 80, 622-629.	1.3	24
35	Adipose tissue as a possible therapeutic target for polyphenols: A case for Cyclopia extracts as anti-obesity nutraceuticals. Biomedicine and Pharmacotherapy, 2019, 120, 109439.	5.6	24
36	Aspalathin ameliorates doxorubicin-induced oxidative stress in H9c2 cardiomyoblasts. Toxicology in Vitro, 2019, 55, 134-139.	2.4	24

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37	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.	2.4	24
38	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.	3.9	23
39	Aspalathin-Rich Green Rooibos Extract Lowers LDL-Cholesterol and Oxidative Status in High-Fat Diet-Induced Diabetic Vervet Monkeys. Molecules, 2019, 24, 1713.	3.8	22
40	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.	4.1	21
41	Impact of physical exercise and caloric restriction in patients with type 2 diabetes: Skeletal muscle insulin resistance and mitochondrial dysfunction as ideal therapeutic targets. Life Sciences, 2022, 297, 120467.	4.3	21
42	Phenylpyruvic Acid-2-O-Î²-D-Glucoside Attenuates High Glucose-Induced Apoptosis in H9c2 Cardiomyocytes. Planta Medica, 2016, 82, 1468-1474.	1.3	20
43	Trace Element Concentration Changes in Brain Tumors: A Review. Anatomical Record, 2020, 303, 1293-1299.	1.4	19
44	Cyclopia maculata (honeybush tea) stimulates lipolysis in 3T3-L1 adipocytes. Phytomedicine, 2013, 20, 1168-1171.	5.3	17
45	In Vitro Antihyperlipidemic Potential of Triterpenes from Stem Bark of Protorhus longifolia. Planta Medica, 2014, 80, 1685-1691.	1.3	17
46	Expression of UCP2 in Wistar rats varies according to age and the severity of obesity. Journal of Physiology and Biochemistry, 2016, 72, 25-32.	3.0	17
47	Spatial and Temporal Trends of SARS-CoV-2 RNA from Wastewater Treatment Plants over 6 Weeks in Cape Town, South Africa. International Journal of Environmental Research and Public Health, 2021, 18, 12085.	2.6	16
48	Cyclopia Extracts Enhance Th1-, Th2-, and Th17-type T Cell Responses and Induce Foxp3+ Cells in Murine Cell Culture. Planta Medica, 2018, 84, 311-319.	1.3	15
49	Rooibos suppresses proliferation of castration-resistant prostate cancer cells via inhibition of Akt signaling. Phytomedicine, 2019, 64, 153068.	5.3	15
50	Polyphenol-Enriched Fractions of Cyclopia intermedia Selectively Affect Lipogenesis and Lipolysis in 3T3-L1 Adipocytes. Planta Medica, 2018, 84, 100-110.	1.3	14
51	New Insights into the Efficacy of Aspalathin and Other Related Phytochemicals in Type 2 Diabetesâ€”A Review. International Journal of Molecular Sciences, 2022, 23, 356.	4.1	14
52	Isoorientin ameliorates lipid accumulation by regulating fat browning in palmitate-exposed 3T3-L1 adipocytes. Metabolism Open, 2020, 6, 100037.	2.9	13
53	Impact of Isoorientin on Metabolic Activity and Lipid Accumulation in Differentiated Adipocytes. Molecules, 2020, 25, 1773.	3.8	13
54	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.	4.1	13

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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.	4.1	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.	1.2	12
57	Intestinal Transport Characteristics and Metabolism of C-Glucosyl Dihydrochalcone, Aspalathin. Molecules, 2017, 22, 554.	3.8	12
58	Pharmacokinetic Interaction of Green Rooibos Extract With Atorvastatin and Metformin in Rats. Frontiers in Pharmacology, 2019, 10, 1243.	3.5	12
59	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.	2.5	12
60	Aspalathin-rich green Aspalathus linearis extract suppresses migration and invasion of human castration-resistant prostate cancer cells via inhibition of YAP signaling. Phytomedicine, 2020, 69, 153210.	5.3	12
61	The Potential Role of Polyphenols in Modulating Mitochondrial Bioenergetics within the Skeletal Muscle: A Systematic Review of Preclinical Models. Molecules, 2021, 26, 2791.	3.8	12
62	Antimycin A-induced mitochondrial dysfunction is consistent with impaired insulin signaling in cultured skeletal muscle cells. Toxicology in Vitro, 2021, 76, 105224.	2.4	11
63	Rooibos Flavonoids, Aspalathin, Isoorientin, and Orientin Ameliorate Antimycin A-Induced Mitochondrial Dysfunction by Improving Mitochondrial Bioenergetics in Cultured Skeletal Muscle Cells. Molecules, 2021, 26, 6289.	3.8	11
64	Experimental models of lipid overload and their relevance in understanding skeletal muscle insulin resistance and pathological changes in mitochondrial oxidative capacity. Biochimie, 2022, 196, 182-193.	2.6	10
65	Human immunodeficiency virus in cadavers: A review. Clinical Anatomy, 2019, 32, 603-610.	2.7	9
66	An In Vitro Study on the Combination Effect of Metformin and N-Acetyl Cysteine against Hyperglycaemia-Induced Cardiac Damage. Nutrients, 2019, 11, 2850.	4.1	9
67	Enhanced production of Th1- and Th2-type antibodies and induction of regulatory T cells in mice by oral administration of Cyclopia extracts with similar phenolic composition to honeybush herbal tea. Journal of Functional Foods, 2020, 64, 103704.	3.4	9
68	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.	2.4	8
69	Effect of Rooibos (Aspalathus linearis) extract on atorvastatinâ€induced toxicity in C3A liver cells. Journal of Cellular Physiology, 2020, 235, 9487-9496.	4.1	8
70	Model development for predicting in vitro bio-capacity of green rooibos extract based on composition for application as screening tool in quality control. Food and Function, 2020, 11, 3084-3094.	4.6	7
71	Effect of human immunodeficiency virus on the brain: A review. Anatomical Record, 2020, 304, 1389-1399.	1.4	6
72	In vitro Characterization of Insulinâ^'Producing Î²-Cell Spheroids. Frontiers in Cell and Developmental Biology, 2020, 8, 623889.	3.7	6

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73	Non-communicable diseases â€“ a catastrophe for South Africa. South African Journal of Science, 2021, 117, .	0.7	6
74	In vitro comparison of various antioxidants and flavonoids from Rooibos as beta cell protectants against lipotoxicity and oxidative stress-induced cell death. PLoS ONE, 2022, 17, e0268551.	2.5	6
75	The triterpene, methyl-3Î²-hydroxylanosta-9,24-dien-21-oate (RA3), attenuates high glucose-induced oxidative damage and apoptosis by improving energy metabolism. Phytomedicine, 2021, 85, 153546.	5.3	5
76	Orientin Improves Substrate Utilization and the Expression of Major Genes Involved in Insulin Signaling and Energy Regulation in Cultured Insulin-Resistant Liver Cells. Molecules, 2021, 26, 6154.	3.8	5
77	The Effect of Phytochemicals and Food Bioactive Compounds on Diabetes. International Journal of Molecular Sciences, 2022, 23, 7765.	4.1	5
78	Lanosteryl triterpenes from Protorhus longifolia as a cardioprotective agent: a mini review. Heart Failure Reviews, 2019, 24, 155-166.	3.9	4
79	Herbal supplements interactions with oral oestrogenâ€based contraceptive metabolism and transport. Phytotherapy Research, 2020, 34, 1519-1529.	5.8	4
80	Multi-element Analysis of Brain Regions from South African Cadavers. Biological Trace Element Research, 2021, 199, 425-441.	3.5	4
81	Therapeutic effects of an aspalathin-rich green rooibos extract, pioglitazone and atorvastatin combination therapy in diabetic db/db mice. PLoS ONE, 2021, 16, e0251069.	2.5	4
82	Autogenous transplantation of a duct ligated pancreas: a functional and histological study. JOP: Journal of the Pancreas, 2004, 5, 71-80.	1.5	4
83	Green Rooibos Extract improves plasma lipid profile and oxidative status in diabetic non-human primates. Free Radical Biology and Medicine, 2017, 108, S97.	2.9	3
84	Effect of Human Immunodeficiency Virus on Trace Elements in the Brain. Biological Trace Element Research, 2021, 199, 41-52.	3.5	1
85	An RP-LC-UV-TWIMS-HRMS and Chemometric Approach to Differentiate between Momordicabalsamina Chemotypes from Three Different Geographical Locations in Limpopo Province of South Africa. Molecules, 2021, 26, 1896.	3.8	1
86	Sclerocarya birrea (Marula) Extract Inhibits Hepatic Steatosis in db/db Mice. International Journal of Environmental Research and Public Health, 2022, 19, 3782.	2.6	1
87	Running with Type 1 Diabetes: A Case Report on the Benefit of Sensor Technology. International Journal of Diabetology, 2022, 3, 310-314.	2.0	0