

# Du Toit Loots

## List of Publications by Year in descending order

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84  
papers

2,161  
citations

249298

26  
h-index

312153

41  
g-index

87  
all docs

87  
docs citations

87  
times ranked

3085  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In Silico</i> Drug Discovery Strategies Identified ADMET Properties of Decoquinone RMB041 and Its Potential Drug Targets against <i>Mycobacterium tuberculosis</i> . <i>Microbiology Spectrum</i> , 2022, 10, e0231521.	1.2	8
2	Tuberculous Granuloma: Emerging Insights From Proteomics and Metabolomics. <i>Frontiers in Neurology</i> , 2022, 13, 804838.	1.1	9
3	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.	2.2	4
4	Elucidating the Antimycobacterial Mechanism of Action of Ciprofloxacin Using Metabolomics. <i>Microorganisms</i> , 2021, 9, 1158.	1.6	13
5	<i>M. tuberculosis</i> curli pili (MTP) is associated with alterations in carbon, fatty acid and amino acid metabolism in a THP-1 macrophage infection model. <i>Microbial Pathogenesis</i> , 2021, 154, 104806.	1.3	3
6	Chronological Metabolic Response to Intensive Phase TB Therapy in Patients with Cured and Failed Treatment Outcomes. <i>ACS Infectious Diseases</i> , 2021, 7, 1859-1869.	1.8	4
7	Elucidating the Antimycobacterial Mechanism of Action of Decoquinone Derivative RMB041 Using Metabolomics. <i>Antibiotics</i> , 2021, 10, 693.	1.5	12
8	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.	1.6	2
9	Characterizing Marathon-Induced Metabolic Changes Using 1H-NMR Metabolomics. <i>Metabolites</i> , 2021, 11, 656.	1.3	5
10	Beetroot juice – a suitable post-marathon metabolic recovery supplement?. <i>Journal of the International Society of Sports Nutrition</i> , 2021, 18, 72.	1.7	4
11	Immune Dysregulation Is Associated with Neurodevelopment and Neurocognitive Performance in HIV Pediatric Populations – A Scoping Review. <i>Viruses</i> , 2021, 13, 2543.	1.5	6
12	Tween 80 induces a carbon flux rerouting in <i>Mycobacterium tuberculosis</i> . <i>Journal of Microbiological Methods</i> , 2020, 170, 105795.	0.7	15
13	The unaided recovery of marathon-induced serum metabolome alterations. <i>Scientific Reports</i> , 2020, 10, 11060.	1.6	11
14	Metabolic characterization of tuberculous meningitis in a South African paediatric population using 1H NMR metabolomics. <i>Journal of Infection</i> , 2020, 81, 743-752.	1.7	14
15	Potential anti-TB investigational compounds and drugs with repurposing potential in TB therapy: a conspectus. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 5633-5662.	1.7	27
16	Serum Metabolome Changes in Relation to Prothrombotic State Induced by Combined Oral Contraceptives with Drospirenone and Ethinylestradiol. <i>OMICS A Journal of Integrative Biology</i> , 2020, 24, 404-414.	1.0	8
17	Metabolomics describes previously unknown toxicity mechanisms of isoniazid and rifampicin. <i>Toxicology Letters</i> , 2020, 322, 104-110.	0.4	34
18	Metabolomic applications for understanding complex tripartite plant-microbes interactions: Strategies and perspectives. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020, 25, e00425.	2.1	34

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19	Overview of Brain-to-Gut Axis Exposed to Chronic CNS Bacterial Infection(s) and a Predictive Urinary Metabolic Profile of a Brain Infected by Mycobacterium tuberculosis. <i>Frontiers in Neuroscience</i> , 2020, 14, 296.	1.4	12
20	The application of metabolomics toward pulmonary tuberculosis research. <i>Tuberculosis</i> , 2019, 115, 126-139.	0.8	34
21	<i>Bacillus velezensis</i> : phylogeny, useful applications, and avenues for exploitation. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3669-3682.	1.7	78
22	Effect of proline-enriched abalone feed on selected metabolite levels of slow-growing adult <i>Haliotis midae</i> . <i>Aquaculture Research</i> , 2019, 50, 1057-1067.	0.9	13
23	Time-Dependent Changes in Urinary Metabolome Before and After Intensive Phase Tuberculosis Therapy: A Pharmacometabolomics Study. <i>OMICS A Journal of Integrative Biology</i> , 2019, 23, 560-572.	1.0	17
24	Fatty Acid Metabolome Extraction from Mycobacterial Cells for GC-MS Metabolomics Analysis. <i>Methods in Molecular Biology</i> , 2019, 1859, 111-120.	0.4	1
25	Total Metabolome Extraction from Mycobacterial Cells for GC-MS Metabolomics Analysis. <i>Methods in Molecular Biology</i> , 2019, 1859, 121-131.	0.4	9
26	Characterising the metabolic differences related to growth variation in farmed <i>Haliotis midae</i> . <i>Aquaculture</i> , 2018, 493, 144-152.	1.7	17
27	Uncovering the metabolic response of abalone ( <i>Haliotis midae</i> ) to environmental hypoxia through metabolomics. <i>Metabolomics</i> , 2018, 14, 49.	1.4	47
28	The cross-tissue metabolic response of abalone ( <i>Haliotis midae</i> ) to functional hypoxia. <i>Biology Open</i> , 2018, 7, .	0.6	21
29	Abalone growth and associated aspects: now from a metabolic perspective. <i>Reviews in Aquaculture</i> , 2018, 10, 451-473.	4.6	32
30	Protein kinase C-delta (PKC $\delta$ ), a marker of inflammation and tuberculosis disease progression in humans, is important for optimal macrophage killing effector functions and survival in mice. <i>Mucosal Immunology</i> , 2018, 11, 496-511.	2.7	28
31	Novel insights into the pharmacometabolomics of first-line tuberculosis drugs relating to metabolism, mechanism of action and drug-resistance. <i>Drug Metabolism Reviews</i> , 2018, 50, 466-481.	1.5	20
32	The altered human serum metabolome induced by a marathon. <i>Metabolomics</i> , 2018, 14, 150.	1.4	39
33	Elucidating the antimicrobial mechanisms of colistin sulfate on <i>Mycobacterium tuberculosis</i> using metabolomics. <i>Tuberculosis</i> , 2018, 111, 14-19.	0.8	25
34	Metabolomics of colistin methanesulfonate treated <i>Mycobacterium tuberculosis</i> . <i>Tuberculosis</i> , 2018, 111, 154-160.	0.8	6
35	Metabolomics biomarkers for tuberculosis diagnostics: current status and future objectives. <i>Biomarkers in Medicine</i> , 2017, 11, 179-194.	0.6	33
36	From untargeted LC-QTOF analysis to characterisation of opines in abalone adductor muscle: Theory meets practice. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1071, 44-48.	1.2	9

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37	The role of metabolomics in tuberculosis treatment research. <i>Biomarkers in Medicine</i> , 2017, 11, 1017-1029.	0.6	12
38	Urinary metabolite markers characterizing tuberculosis treatment failure. <i>Metabolomics</i> , 2017, 13, 1.	1.4	23
39	Predicting tuberculosis treatment outcome using metabolomics. <i>Biomarkers in Medicine</i> , 2017, 11, 1057-1067.	0.6	16
40	The effects of residual platelets in plasma on plasminogen activator inhibitor-1 and plasminogen activator inhibitor-1-related assays. <i>PLoS ONE</i> , 2017, 12, e0171271.	1.1	11
41	A metabolomics investigation of the function of the ESX-1 gene cluster in mycobacteria. <i>Microbial Pathogenesis</i> , 2016, 100, 268-275.	1.3	14
42	TB or not TB? Improving the understanding and diagnosis of tuberculosis through metabolomics. <i>Biomarkers in Medicine</i> , 2016, 10, 1025-1028.	0.6	6
43	Untargeted Metabolite Profiling of Abalone Using Gas Chromatography Mass Spectrometry. <i>Food Analytical Methods</i> , 2016, 9, 1254-1261.	1.3	14
44	Metabolomics and Personalized Medicine. <i>Advances in Protein Chemistry and Structural Biology</i> , 2016, 102, 53-78.	1.0	31
45	Tuberculosis metabolomics reveals adaptations of man and microbe in order to outcompete and survive. <i>Metabolomics</i> , 2016, 12, 1.	1.4	21
46	New insights into the survival mechanisms of rifampicin-resistant <i>Mycobacterium tuberculosis</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 655-660.	1.3	22
47	A comparison of the cardiometabolic profile of black South Africans with suspected non-alcoholic fatty liver disease (NAFLD) and excessive alcohol use. <i>Alcohol</i> , 2015, 49, 165-172.	0.8	8
48	The Use of Functional Genomics in Conjunction with Metabolomics for <i>Mycobacterium tuberculosis</i> Research. <i>Disease Markers</i> , 2014, 2014, 1-12.	0.6	18
49	Self-reported alcohol intake is a better estimate of 5-year change in blood pressure than biochemical markers in low resource settings. <i>Journal of Hypertension</i> , 2014, 32, 749-755.	0.3	18
50	An Altered <i>Mycobacterium tuberculosis</i> Metabolome Induced by katG Mutations Resulting in Isoniazid Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 2144-2149.	1.4	41
51	Can metabolomics improve tuberculosis diagnostics?. <i>Metabolomics</i> , 2014, 10, 877-886.	1.4	4
52	A metabolomics approach exploring the function of the ESX-3 type VII secretion system of <i>M. smegmatis</i> . <i>Metabolomics</i> , 2013, 9, 631-641.	1.4	10
53	New sputum metabolite markers implicating adaptations of the host to <i>Mycobacterium tuberculosis</i> , and vice versa. <i>Tuberculosis</i> , 2013, 93, 330-337.	0.8	69
54	A metabolomics approach to characterise and identify various <i>Mycobacterium</i> species. <i>Journal of Microbiological Methods</i> , 2012, 88, 419-426.	0.7	55

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55	Altered Fatty Acid Metabolism Due to Rifampicin-Resistance Conferring Mutations in the <i>rpoB</i> Gene of <i>Mycobacterium tuberculosis</i> : Mapping the Potential of Pharmaco-metabolomics for Global Health and Personalized Medicine. <i>OMICS A Journal of Integrative Biology</i> , 2012, 16, 596-603.	1.0	43
56	A comparison of four sputum pre-extraction preparation methods for identifying and characterising <i>Mycobacterium tuberculosis</i> using GCxGC-TOFMS metabolomics. <i>Journal of Microbiological Methods</i> , 2012, 91, 301-311.	0.7	43
57	A metabolomics investigation of a hyper- and hypo-virulent phenotype of Beijing lineage <i>M. tuberculosis</i> . <i>Metabolomics</i> , 2012, 8, 1194-1203.	1.4	35
58	Antidiabetic effects of <i>Aloe ferox</i> and <i>Aloe greatheadii</i> var. <i>davyana</i> leaf gel extracts in a low-dose streptozotocin diabetes rat model. <i>South African Journal of Science</i> , 2011, 107, .	0.3	18
59	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, 729-735.	2.2	9
60	Ileal and faecal digestibility of daidzein and genistein and plasma bioavailability of these isoflavones and their bioactive metabolites in the ovariectomised rat. <i>Molecular Nutrition and Food Research</i> , 2009, 53, S27-35.	1.5	15
61	Abnormal tricarboxylic acid cycle metabolites in isovaleric acidaemia. <i>Journal of Inherited Metabolic Disease</i> , 2009, 32, 403-411.	1.7	7
62	Linolenic acid and folate in wild-growing African dark leafy vegetables (morogo). <i>Public Health Nutrition</i> , 2009, 12, 525.	1.1	20
63	Experimental rodent models of type 2 diabetes: A review. <i>Methods and Findings in Experimental and Clinical Pharmacology</i> , 2009, 31, 249.	0.8	171
64	Food antioxidant capacity and its use in food selection. <i>South African Journal of Clinical Nutrition</i> , 2009, 22, 169-170.	0.3	0
65	<i>In vitro</i> antioxidant, antimutagenic and genoprotective activity of <i>Rosa roxburghii</i> fruit extract. <i>Phytotherapy Research</i> , 2008, 22, 376-383.	2.8	26
66	Phytochemical Contents and Antioxidant Capacities of Two <i>Aloe greatheadii</i> var. <i>davyana</i> Extracts. <i>Molecules</i> , 2008, 13, 2169-2180.	1.7	53
67	Effects of Dietary Onion ( <i>Allium cepa</i> L.) in a High-Fat Diet Streptozotocin-Induced Diabetes Rodent Model. <i>Annals of Nutrition and Metabolism</i> , 2008, 53, 6-12.	1.0	43
68	The process of nutrient analysis for controlled feeding trials: A comparative study of two South African nutrient databases with chemical analysis. <i>Contemporary Clinical Trials</i> , 2008, 29, 493-500.	0.8	2
69	P-147 Higher dietary fat impairs anti-diabetic effects of onion ( <i>Allium cepa</i> L.) in rats. <i>Diabetes Research and Clinical Practice</i> , 2008, 79, S108.	1.1	0
70	Glycaemic control improves fibrin network characteristics in type 2 diabetes – A purified fibrinogen model. <i>Thrombosis and Haemostasis</i> , 2008, 99, 691-700.	1.8	61
71	Glycation of fibrinogen in uncontrolled diabetic patients and the effects of glycaemic control on fibrinogen glycation. <i>Thrombosis Research</i> , 2007, 120, 439-446.	0.8	48
72	<i>Aloe ferox</i> Leaf Gel Phytochemical Content, Antioxidant Capacity, and Possible Health Benefits. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 6891-6896.	2.4	111

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73	Sodium iron (III) ethylenediaminetetraacetic acid synthesis to reduce iron deficiency globally. <i>European Journal of Clinical Nutrition</i> , 2007, 61, 287-289.	1.3	10
74	Amino-acid depletion induced by abnormal amino-acid conjugation and protein restriction in isovaleric acidemia. <i>European Journal of Clinical Nutrition</i> , 2007, 61, 1323-1327.	1.3	12
75	Diabetes, metallothionein, and zinc interactions: A review. <i>BioFactors</i> , 2007, 29, 203-212.	2.6	51
76	The effects of high walnut and cashew nut diets on the antioxidant status of subjects with metabolic syndrome. <i>European Journal of Nutrition</i> , 2007, 46, 155-164.	1.8	106
77	Polyphenol Composition and Antioxidant Activity of Kei-Apple ( <i>Dovyalis caffra</i> ) Juice. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 1271-1276.	2.4	49
78	The effect of glycaemic control on fibrin network structure of type 2 diabetic subjects. <i>Thrombosis and Haemostasis</i> , 2006, 96, 623-629.	1.8	34
79	The effect of glycaemic control on fibrin network structure of type 2 diabetic subjects. <i>Thrombosis and Haemostasis</i> , 2006, 96, 623-9.	1.8	21
80	Clustering of haemostatic variables and the effect of high cashew and walnut diets on these variables in metabolic syndrome patients. <i>Blood Coagulation and Fibrinolysis</i> , 2005, 16, 429-437.	0.5	20
81	Melatonin prevents the free radical and MADD metabolic profiles induced by antituberculosis drugs in an animal model. <i>Journal of Pineal Research</i> , 2005, 38, 100-106.	3.4	21
82	<i>Rosa roxburghii</i> supplementation in a controlled feeding study increases plasma antioxidant capacity and glutathione redox state. <i>European Journal of Nutrition</i> , 2005, 44, 452-457.	1.8	23
83	Identification of 19 New Metabolites Induced by Abnormal Amino Acid Conjugation in Isovaleric Acidemia. <i>Clinical Chemistry</i> , 2005, 51, 1510-1512.	1.5	19
84	Acetyl-L-carnitine prevents total body hydroxyl free radical and uric acid production induced by 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) in the rat. <i>Life Sciences</i> , 2004, 75, 1243-1253.	2.0	25